

```

<?xml version="1.0" encoding="UTF-8" standalone="true"?>
<?mso-application progid="Word.Document"?>
<pkg:package xmlns:pkg="http://schemas.microsoft.com/office/2006/xmlPackage">
  - <pkg:part pkg:padding="512" pkg:contentType="application/vnd.openxmlformats-package.relationships+xml" pkg:name="/_rels/rels">
    - <pkg:xmlData>
      - <Relationships xmlns="http://schemas.openxmlformats.org/package/2006/relationships">
        <Relationship Target="docProps/app.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/extended-properties"
          Id="rId3"/>
        <Relationship Target="docProps/core.xml" Type="http://schemas.openxmlformats.org/package/2006/relationships/metadata/core-properties"
          Id="rId2"/>
        <Relationship Target="word/document.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/officeDocument"
          Id="rId1"/>
      </Relationships>
    </pkg:xmlData>
  </pkg:part>
  - <pkg:part pkg:contentType="application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml" pkg:name="/word/document.xml">
    - <pkg:xmlData>
      - <w:document mc:Ignorable="w14 w15 w16se w16cid w16 w16cex wp14"
        xmlns:wps="http://schemas.microsoft.com/office/word/2010/wordprocessingShape"
        xmlns:wne="http://schemas.microsoft.com/office/word/2006/wordml" xmlns:wpi="http://schemas.microsoft.com/office/word/2010/wordprocessingInk"
        xmlns:wpg="http://schemas.microsoft.com/office/word/2010/wordprocessingGroup"
        xmlns:w16se="http://schemas.microsoft.com/office/word/2015/wordml/symex" xmlns:w16="http://schemas.microsoft.com/office/word/2018/wordml"
        xmlns:w16cid="http://schemas.microsoft.com/office/word/2016/wordml/cid"
        xmlns:w16cex="http://schemas.microsoft.com/office/word/2018/wordml/cex" xmlns:w15="http://schemas.microsoft.com/office/word/2012/wordml"
        xmlns:w14="http://schemas.microsoft.com/office/word/2010/wordml" xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
        xmlns:w10="urn:schemas-microsoft-com:office:word" xmlns:wpg="http://schemas.openxmlformats.org/drawingml/2006/wordprocessingDrawing"
        xmlns:wp14="http://schemas.microsoft.com/office/word/2010/wordprocessingDrawing" xmlns:v="urn:schemas-microsoft-com:vml"
        xmlns:m="http://schemas.openxmlformats.org/officeDocument/2006/math"
        xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" xmlns:o="urn:schemas-microsoft-com:office:office"
        xmlns:am3d="http://schemas.microsoft.com/office/drawing/2017/model3d" xmlns:aink="http://schemas.microsoft.com/office/drawing/2016/ink"
        xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
        xmlns:cx8="http://schemas.microsoft.com/office/drawing/2016/5/14/chartex"
        xmlns:cx7="http://schemas.microsoft.com/office/drawing/2016/5/13/chartex"
        xmlns:cx6="http://schemas.microsoft.com/office/drawing/2016/5/12/chartex"
        xmlns:cx5="http://schemas.microsoft.com/office/drawing/2016/5/11/chartex"
        xmlns:cx4="http://schemas.microsoft.com/office/drawing/2016/5/10/chartex"
        xmlns:cx3="http://schemas.microsoft.com/office/drawing/2016/5/9/chartex"
        xmlns:cx2="http://schemas.microsoft.com/office/drawing/2015/10/21/chartex"
        xmlns:cx1="http://schemas.microsoft.com/office/drawing/2015/9/8/chartex" xmlns:cx="http://schemas.microsoft.com/office/drawing/2014/chartex"
        xmlns:wpc="http://schemas.microsoft.com/office/word/2010/wordprocessingCanvas">
        - <w:body>
          - <w:p w:rsidP="00654E1D" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="76B0E16F">
            w14:paraId="5ADF631E">
              - <w:pPr>
                <w:spacing w:after="0"/>
                <w:ind w:hanging="10" w:left="235"/>
                <w:jc w:val="center"/>
              - <w:rPr>
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                <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
                <w:sz w:val="16"/>
                <w:szCs w:val="16"/>
                <w:lang w:val="en-US"/>
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            </w:pPr>
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            - <w:rPr>
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              <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
              <w:sz w:val="16"/>
              <w:szCs w:val="16"/>
              <w:lang w:val="en-US"/>
            </w:rPr>
            <w:t>The North African Journal of Food and Nutr</w:t>
          </w:r>
          - <w:r w:rsidRPr="00961174" w:rsidR="004D0A54">
            - <w:rPr>
              <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri" w:ascii="Leelawadee UI Semilight"/>
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              <w:sz w:val="16"/>
              <w:szCs w:val="16"/>
              <w:lang w:val="en-US"/>
            </w:rPr>
            <w:t>ition Research: (2020)04;(07):2</w:t>
          </w:r>
          - <w:r w:rsidRPr="00961174" w:rsidR="006B3C96">
            - <w:rPr>
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            </w:rPr>
          </w:r>
        </w:body>
      </w:document>
    </pkg:xmlData>
  </pkg:part>
</pkg:package>

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        <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
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        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
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    <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
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    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
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</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00563E33">
  - <w:rPr>
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    <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>9</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00654E1D" w:rsidRDefault="00910E9D" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="2366A0F6" w14:paraId="46EA6312">
  - <w:pPr>
    <w:spacing w:after="0"/>
    <w:ind w:hanging="10" w:left="235"/>
    <w:jc w:val="center"/>
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
    <w:b/>
    <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
    <w:spacing w:val="20"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
<w:pPr>
  <w:bookmarkStart w:name="_Hlk21411779" w:id="0"/>
  <w:bookmarkStart w:name="_Hlk29676532" w:id="1"/>
  <w:bookmarkStart w:name="_Hlk37866260" w:id="2"/>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:noProof/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  - <w:drawing>
    - <wp:anchor wp14:editId="67C0069E" wp14:anchorId="3F2E9AD1" allowOverlap="1" layoutInCell="1" locked="0" behindDoc="0" relativeHeight="251673600" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
      <wp:simplePos y="0" x="0"/>
      - <wp:positionH relativeFrom="column">
        <wp:posOffset>5219700</wp:posOffset>
      </wp:positionH>
      - <wp:positionV relativeFrom="paragraph">
        <wp:posOffset>56404</wp:posOffset>
      </wp:positionV>
      <wp:extent cx="901399" cy="325793"/>
      <wp:effectExtent r="0" b="0" t="0" l="0"/>
      <wp:wrapNone/>
      <wp:docPr name="Picture 26" id="26" descr="Image result for Open Access Blue"/>
      - <wp:cNvGraphicFramePr>
        <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
      </wp:cNvGraphicFramePr>
      - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
        - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
          - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
            - <pic:nvPicPr>
              <pic:cNvPr name="Picture 1" id="0" descr="Image result for Open Access Blue"/>
              - <pic:cNvPicPr>
                <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
              </pic:cNvPicPr>
            </pic:nvPicPr>
          - <pic:blipFill>
            - <a:blip cstate="print" r:embed="rId8"/>
          </pic:blipFill>
        </a:graphicData>
      </a:graphic>
    </wp:anchor>
  </w:r>

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- <a:extLst>
  - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
    <a14:useLocalDpi val="0"
      xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
    </a:ext>
  </a:extLst>
</a:blip>
<a:srcRect/>
- <a:stretch>
  <a:fillRect/>
</a:stretch>
<pic:blipFill>
- <pic:spPr bwMode="auto">
  - <a:xfm>
    <a:off y="0" x="0"/>
    <a:ext cx="901399" cy="325793"/>
  </a:xfm>
  - <a:prstGeom prst="rect">
    <a:avLst/>
  </a:prstGeom>
  <a:noFill/>
  - <a:ln>
    <a:noFill/>
  </a:ln>
</pic:spPr>
</pic:pic>
<a:graphicData>
</a:graphic>
- <wp14:sizeRelH relativeFrom="margin">
  <wp14:pctWidth>0</wp14:pctWidth>
</wp14:sizeRelH>
- <wp14:sizeRelV relativeFrom="margin">
  <wp14:pctHeight>0</wp14:pctHeight>
</wp14:sizeRelV>
</wp:anchor>
</w:drawing>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Leelawadee UI Semilight"
      w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="0563C1"/>
    <w:sz w:val="14"/>
    <w:szCs w:val="20"/>
    <w:u w:val="single" w:color="0563C1"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>https://doi.org/</w:t>
</w:r>
<w:bookmarkEnd w:id="0"/>
- <w:r w:rsidRPr="00961174" w:rsidR="00243CBB">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Leelawadee UI Semilight"
      w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="0563C1"/>
    <w:sz w:val="14"/>
    <w:szCs w:val="20"/>
    <w:u w:val="single" w:color="0563C1"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>10.5281/zenodo.</w:t>
</w:r>
<w:bookmarkEnd w:id="1"/>
- <w:r w:rsidRPr="00DC4415" w:rsidR="00DC4415">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Leelawadee UI Semilight"
      w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="0563C1"/>
    <w:sz w:val="14"/>
    <w:szCs w:val="20"/>
    <w:u w:val="single" w:color="0563C1"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>3736294</w:t>
</w:r>
</w:p>
<w:bookmarkEnd w:id="2"/>
- <w:p w:rsidP="00077D60" w:rsidRDefault="001F6CED" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="48554C32"
  w14:paraId="28E775F8">
  - <w:pPr>
    <w:spacing w:after="0"/>
    <w:ind w:hanging="10" w:left="142" w:right="-406"/>

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- <w:rPr>
  <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
  <w:b/>
  <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
  <w:spacing w:val="20"/>
  <w:sz w:val="16"/>
  <w:szCs w:val="16"/>
  <w:lang w:val="en-US"/>
</w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
    <w:b/>
    <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
    <w:spacing w:val="20"/>
    <w:sz w:val="24"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
    <w:b/>
    <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
    <w:spacing w:val="20"/>
    <w:sz w:val="24"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Original Article</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
    <w:b/>
    <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
    <w:spacing w:val="20"/>
    <w:sz w:val="24"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
  - <w:rPr>
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    <w:b/>
    <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
    <w:b/>
    <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
    <w:spacing w:val="20"/>
    <w:sz w:val="24"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:p w:rsidP="00B87D58" w:rsidRDefault="00077D60" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="50B880DC"
w14:paraId="52A5690F">
  - <w:pPr>
    <w:spacing w:after="161"/>
    <w:ind w:left="212" w:right="-28"/>
  - <w:rPr>
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    <w:color w:val="000000"/>
    <w:sz w:val="20"/>
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  </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:noProof/>
    <w:lang w:val="en-US"/>
  </w:rPr>

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</w:rPr>
- <w:drawing>
  - <wp:anchor wp14:editId="5CD4ADAE" wp14:anchorId="204507B6" allowOverlap="1" layoutInCell="1" locked="0"
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    - <wp:positionH relativeFrom="margin">
      <wp:posOffset>133032</wp:posOffset>
    </wp:positionH>
    - <wp:positionV relativeFrom="paragraph">
      <wp:posOffset>48895</wp:posOffset>
    </wp:positionV>
    <wp:extent cx="1248565" cy="942202"/>
    <wp:effectExtent r="8890" b="0" t="0" l="0"/>
    <wp:wrapNone/>
    <wp:docPr name="Picture 24" id="24"/>
    - <wp:cNvGraphicFramePr>
      <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
    </wp:cNvGraphicFramePr>
    - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
      - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
        - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
          - <pic:nvPicPr>
            <pic:cNvPicPr name="" id="1"/>
            <pic:cNvPicPr>
              <pic:nvPicPr>
                - <pic:blipFill>
                  - <a:blip cstate="print" r:embed="rId9">
                    - <a:extLst>
                      - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
                        <a14:useLocalDpi val="0"
                          xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
                      </a:ext>
                    </a:extLst>
                  </a:blip>
                - <a:stretch>
                  <a:fillRect>
                    </a:stretch>
                  <pic:blipFill>
                    - <pic:spPr>
                      - <a:xfrm>
                        <a:off y="0" x="0"/>
                        <a:ext cx="1248565" cy="942202"/>
                      </a:xfrm>
                      - <a:prstGeom prst="rect">
                        <a:avLst>
                          </a:prstGeom>
                        <pic:spPr>
                          </pic:pic>
                        </a:graphicData>
                      </a:graphic>
                    - <wp14:sizeRelH relativeFrom="margin">
                      <wp14:pctWidth>0</wp14:pctWidth>
                    </wp14:sizeRelH>
                    - <wp14:sizeRelV relativeFrom="margin">
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                    </wp14:sizeRelV>
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                </w:drawing>
              </w:r>
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              - <w:rPr>
                <w:noProof/>
                <w:lang w:val="en-US"/>
              </w:rPr>
            - <w:drawing>
              - <wp:anchor wp14:editId="56041647" wp14:anchorId="3B37AC47" allowOverlap="1" layoutInCell="1" locked="0" behindDoc="0"
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                <wp:simplePos y="0" x="0"/>
                - <wp:positionH relativeFrom="margin">
                  <wp:posOffset>5461000</wp:posOffset>
                </wp:positionH>
                - <wp:positionV relativeFrom="paragraph">
                  <wp:posOffset>55880</wp:posOffset>
                </wp:positionV>
                <wp:extent cx="661532" cy="939054"/>
                <wp:effectExtent r="5715" b="0" t="0" l="0"/>
                <wp:wrapNone/>
                <wp:docPr name="Picture 21" id="21"/>
                - <wp:cNvGraphicFramePr>
                  <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
                </wp:cNvGraphicFramePr>
                - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">

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- <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
- <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
- <pic:nvPicPr>
  <pic:cNvPr name="Picture 3" id="0"/>
  <pic:cNvPicPr>
    <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
  </pic:cNvPicPr>
</pic:nvPicPr>
- <pic:blipFill>
  <a:blip estate="print" r:embed="rId10">
    <a:extLst>
      <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
        <a14:useLocalDpi val="0"
          xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
      </a:ext>
    </a:extLst>
  </a:blip>
  <a:stretch>
    <a:fillRect/>
  </a:stretch>
</pic:blipFill>
- <pic:spPr bwMode="auto">
  <a:xfbm>
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</wp14:sizeRelH>
- <wp14:sizeRelV relativeFrom="margin">
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  <w:rPr>
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  </w:rPr>
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- <w:r w:rsidRPr="00961174" w:rsidR="00C65F87">
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  <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
    <a:graphicData uri="http://schemas.microsoft.com/office/word/2010/wordprocessingShape">
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- <w:pPr>
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- <w:rPr>
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w:asciiTheme="majorHAnsi"/>
<w:color w:val="2F5496" w:themeShade="BF" w:themeColor="accent1"/>
<w:sz w:val="16"/>
<w:szCs w:val="16"/>
</w:rPr>
<w:t>eISSN: 2588-1582</w:t>
</w:r>
</w:p>
</w:tblxContent>
</v:textbox>
<w10:wrap anchorx="margin"/>
</v:shape>
</w:pict>
</mc:Fallback>
</mc:AlternateContent>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00C65F87">
- <w:rPr>
<w:rFonts w:cs="Calibri" w:hAnsi="Calibri" w:eastAsia="Calibri" w:ascii="Calibri"/>
<w:noProof/>
<w:color w:val="000000"/>
<w:sz w:val="20"/>
<w:lang w:val="en-US"/>
</w:rPr>
- <mc:AlternateContent>
- <mc:Choice Requires="wps">
- <w:drawing>
- <wp:anchor wp14:editId="7DD0ECFC" wp14:anchorId="03EFBED3" allowOverlap="1" layoutInCell="1" locked="0"
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- <wp:positionH relativeFrom="page">
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</wp:positionH>
- <wp:positionV relativeFrom="paragraph">
  <wp:posOffset>995045</wp:posOffset>
</wp:positionV>
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<wp:effectExtent r="1905" b="1270" t="0" l="0"/>
<wp:wrapNone/>
<wp:docPr name="AutoShape 16" id="18"/>
- <wp:cNvGraphicFramePr>
  <a:graphicFrameLocks xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
</wp:cNvGraphicFramePr>
- <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
  - <a:graphicData uri="http://schemas.microsoft.com/office/word/2010/wordprocessingShape">
    - <wps:wsp>
      - <wps:cNvSpPr>
        <a:spLocks/>
      </wps:cNvSpPr>
      - <wps:spPr bwMode="auto">
        - <a:xfrm>
          <a:off y="0" x="0"/>
          <a:ext cx="5981065" cy="12065"/>
        </a:xfrm>
        - <a:custGeom>
          <a:avLst/>
          - <a:gdLst>
            <a:gd name="T0" fmla="*/ 0 w 5981426"/>
            <a:gd name="T1" fmla="*/ 0 h 12192"/>
            <a:gd name="T2" fmla="*/ 5981426 w 5981426"/>
            <a:gd name="T3" fmla="*/ 0 h 12192"/>
            <a:gd name="T4" fmla="*/ 5981426 w 5981426"/>
            <a:gd name="T5" fmla="*/ 12192 h 12192"/>
            <a:gd name="T6" fmla="*/ 0 w 5981426"/>
            <a:gd name="T7" fmla="*/ 12192 h 12192"/>
            <a:gd name="T8" fmla="*/ 0 w 5981426"/>
            <a:gd name="T9" fmla="*/ 0 h 12192"/>
            <a:gd name="T10" fmla="*/ 0 w 5981426"/>
            <a:gd name="T11" fmla="*/ 0 h 12192"/>
            <a:gd name="T12" fmla="*/ 5981426 w 5981426"/>
            <a:gd name="T13" fmla="*/ 12192 h 12192"/>
          </a:gdLst>
          <a:ahLst/>
        </a:custGeom>
        - <a:cxnLst>
          - <a:cxn ang="0">
            <a:pos y="T1" x="T0"/>
          </a:cxn>
          - <a:cxn ang="0">
            <a:pos y="T3" x="T2"/>
          </a:cxn>
          - <a:cxn ang="0">
            <a:pos y="T5" x="T4"/>
          </a:cxn>
          - <a:cxn ang="0">
            <a:pos y="T7" x="T6"/>
          </a:cxn>
          - <a:cxn ang="0">
            <a:pos y="T9" x="T8"/>
          </a:cxn>
        </a:cxnLst>
        <a:rect r="T12" b="T13" t="T11" l="T10"/>
      </a:pathLst>
      - <a:path w="5981426" h="12192">
        - <a:moveTo>
          <a:pt y="0" x="0"/>
        </a:moveTo>
        - <a:lnTo>
          <a:pt y="0" x="5981426"/>
        </a:lnTo>
        - <a:lnTo>
          <a:pt y="12192" x="5981426"/>
        </a:lnTo>
        - <a:lnTo>
          <a:pt y="12192" x="0"/>
        </a:lnTo>
        - <a:lnTo>
          <a:pt y="0" x="0"/>
        </a:lnTo>
      </a:path>
    </a:pathLst>
  </a:custGeom>
  - <a:solidFill>

```

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        <a:srgbClr val="000000"/>
        </a:solidFill>
        - <a:ln>
            <a:noFill/>
        </a:ln>
        - <a:extLst>
            - <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
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                    xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
                        - <a:solidFill>
                            <a:srgbClr val="000000"/>
                            </a:solidFill>
                            <a:miter lim="127000"/>
                            <a:headEnd/>
                            <a:tailEnd/>
                        </a14:hiddenLine>
                    </a:ext>
                </a:extLst>
            </wps:spPr>
            - <wps:bodyPr bIns="45720" rIns="91440" tIns="45720" lIns="91440" wrap="square" vert="horz"
                anchorCtr="0" anchor="t" rot="0" upright="1">
                    <a:noAutofit/>
                </wps:bodyPr>
            </wps:wsp>
            </a:graphicData>
            </a:graphic>
            - <wp14:sizeRelH relativeFrom="page">
                <wp14:pctWidth>0</wp14:pctWidth>
            </wp14:sizeRelH>
            - <wp14:sizeRelV relativeFrom="page">
                <wp14:pctHeight>0</wp14:pctHeight>
            </wp14:sizeRelV>
            </wp:anchor>
        </w:drawing>
    </mc:Choice>
    - <mc:Fallback>
        - <w:pict>
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                0s5Y6ir5vt9ID1JwBDIwOMJKHPhlpr69KfdHjyxSmriSfYz+USnWPY7AufNladK6MEJmX9ApD/oD
                OItRorhX2IFEilmcO2RdNtjC5xDF9pCuTyYBB5bi6bQ4syoJ3g9WQ0ymailZgg5KdCXIKLjvcW893
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                JsXecLq0q+WD6m8AAAD//wMAUESDBBQABgAIAAAAIQA4/SH/1gAAAJQBAAALAAAX3JlbHMvLnJl
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                BQYAAAAABAAEAPMAABkBgAAAAA= " style="position:absolute;margin-left:83.15pt;margin-
                top:78.35pt;width:470.95pt;height:95pt;z-index:251661312;visibility:visible;mso-wrap-style:square;mso-width-
                percent:0;mso-height-percent:0;mso-wrap-distance-left:9pt;mso-wrap-distance-top:0;mso-wrap-distance-
                right:9pt;mso-wrap-distance-bottom:0;mso-position-horizontal:absolute;mso-position-horizontal-relative:page;mso-
                position-vertical:absolute;mso-position-vertical-relative:text;mso-width-percent:0;mso-height-percent:0;mso-width-
                relative:page;mso-height-relative:page;v-text-anchor:top" o:spid=" _x0000 _s1026"
                path="m,15981426,r,12192l,12192,,e" coordsize="5981426,12192" strokeweight="0" fillcolor="black">
                    <v:stroke jointstyle="miter" miterlimit="83231f"/>
                    <v:path o:connecttype="custom" textboxrect="0,0,5981426,12192" o:connectangles="0,0,0,0,0"
                        o:connectlocs="0,0;5981065,0;5981065,12065;0,12065;0,0" arrowok="t"/>
                    <w10:wrap anchorx="page"/>
                </v:shape>
            </w:pict>
        </mc:Fallback>
    </mc:Choice>

```

```

        </mc:Fallback>
    </mc:AlternateContent>
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- <w:r w:rsidRPr="00961174" w:rsidR="00C65F87">
    - <w:rPr>
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        <w:noProof/>
        <w:color w:val="000000"/>
        <w:sz w:val="20"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    - <mc:AlternateContent>
        - <mc:Choice Requires="wps">
            - <w:drawing>
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                        <wp:posOffset>143510</wp:posOffset>
                    </wp:positionH>
                    - <wp:positionV relativeFrom="paragraph">
                        <wp:posOffset>38735</wp:posOffset>
                    </wp:positionV>
                    <wp:extent cx="5981065" cy="12065"/>
                    <wp:effectExtent r="0" b="0" t="1905" l="635"/>
                    <wp:wrapNone/>
                    <wp:docPr name="Shape 13825" id="17"/>
                - <wp:cNvGraphicFramePr>
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                </wp:cNvGraphicFramePr>
                - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
                    - <a:graphicData uri="http://schemas.microsoft.com/office/word/2010/wordprocessingShape">
                        - <wps:wsp>
                            - <wps:cNvSpPr>
                                <a:spLocks/>
                            </wps:cNvSpPr>
                            - <wps:spPr bwMode="auto">
                                - <a:xfrm>
                                    <a:off y="0" x="0"/>
                                    <a:ext cx="5981065" cy="12065"/>
                                </a:xfrm>
                                - <a:custGeom>
                                    <a:avLst/>
                                    - <a:gdLst>
                                        <a:gd name="T0" fmla="*/ 0 w 5981426"/>
                                        <a:gd name="T1" fmla="*/ 0 h 12192"/>
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                                        <a:gd name="T3" fmla="*/ 0 h 12192"/>
                                        <a:gd name="T4" fmla="*/ 5981426 w 5981426"/>
                                        <a:gd name="T5" fmla="*/ 12192 h 12192"/>
                                        <a:gd name="T6" fmla="*/ 0 w 5981426"/>
                                        <a:gd name="T7" fmla="*/ 12192 h 12192"/>
                                        <a:gd name="T8" fmla="*/ 0 w 5981426"/>
                                        <a:gd name="T9" fmla="*/ 0 h 12192"/>
                                        <a:gd name="T10" fmla="*/ 0 w 5981426"/>
                                        <a:gd name="T11" fmla="*/ 0 h 12192"/>
                                        <a:gd name="T12" fmla="*/ 5981426 w 5981426"/>
                                        <a:gd name="T13" fmla="*/ 12192 h 12192"/>
                                    </a:gdLst>
                                    <a:ahLst/>
                                </a:custGeom>
                                - <a:cxnLst>
                                    - <a:cxn ang="0">
                                        <a:pos y="T1" x="T0"/>
                                    </a:cxn>
                                    - <a:cxn ang="0">
                                        <a:pos y="T3" x="T2"/>
                                    </a:cxn>
                                    - <a:cxn ang="0">
                                        <a:pos y="T5" x="T4"/>
                                    </a:cxn>
                                    - <a:cxn ang="0">
                                        <a:pos y="T7" x="T6"/>
                                    </a:cxn>
                                    - <a:cxn ang="0">
                                        <a:pos y="T9" x="T8"/>
                                    </a:cxn>
                                </a:cxnLst>
                                <a:rect r="T12" b="T13" t="T11" l="T10"/>
                            </a:pathLst>
                            - <a:path w="5981426" h="12192">
                                - <a:moveTo>
                                    <a:pt y="0" x="0"/>

```

```

        </a:moveTo>
        - <a:lnTo>
            <a:pt y="0" x="5981426"/>
        </a:lnTo>
        - <a:lnTo>
            <a:pt y="12192" x="5981426"/>
        </a:lnTo>
        - <a:lnTo>
            <a:pt y="12192" x="0"/>
        </a:lnTo>
        - <a:lnTo>
            <a:pt y="0" x="0"/>
        </a:lnTo>
        </a:path>
        </a:pathLst>
        </a:custGeom>
        - <a:solidFill>
            <a:srgbClr val="000000"/>
        </a:solidFill>
        - <a:ln>
            <a:noFill>
        </a:ln>
        - <a:extLst>
            - <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
                - <a:l4:hiddenLine w="0"
                    xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
                        - <a:solidFill>
                            <a:srgbClr val="000000"/>
                        </a:solidFill>
                        <a:miter lim="127000"/>
                        <a:headEnd>
                        <a:tailEnd>
                    </a:l4:hiddenLine>
                </a:ext>
            </a:extLst>
        </wps:spPr>
        - <wps:bodyPr bIns="45720" rIns="91440" tIns="45720" lIns="91440" wrap="square" vert="horz"
            anchorCtr="0" anchor="t" rot="0" upright="1">
            <a:noAutofit>
        </wps:bodyPr>
        </wps:wsp>
        </a:graphicData>
        </a:graphic>
        - <wp14:sizeRelH relativeFrom="page">
            <wp14:pctWidth>0</wp14:pctWidth>
        </wp14:sizeRelH>
        - <wp14:sizeRelV relativeFrom="page">
            <wp14:pctHeight>0</wp14:pctHeight>
        </wp14:sizeRelV>
        </wp:anchor>
    </w:drawing>
    </mc:Choice>
    - <mc:Fallback>
        - <w:pict>
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                SUOqXwnz5DRgnHtJTxOsQfEKIT7DmDSUCaxw7Rqn8787ZsmRM9e2VmPeBN4uqYvTtW7jvij9N/y
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                IQAMtyBd+wIAADQIAAAOAAAAAZHJzL2Uyb0RvYy54bWysVVtu2zAAQ/C/QOx08LNBIVGwnNmIHRYIU
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                3USZ5Q2w11WUxPEsarTNjNVCOgdyb9tDugr8eS6F/5bnTnpSLSnY5sPTthucan9Hqii82lpuiFJ0Z/B+sqHmp4NKB6
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                IdFxeeNhB59js03BdzEgpZKf4BmnpfYdIN9rVXdBkZTiE03RnH2jfcB9TTsV78BAAD//wMAUESD
                BBQABgAIAAAAIQBd+n7G2AAAAAYBAAAPAAAAAZHJzL2Rvd25yZXYueG1sT17BT0QwFEX3Jv5D80zc
                OWUQCSKPyWgyiVvQDyj0CQ30ldDODP69daXLm3tz7qkOm53FhVZvHCPsdwkI4t5pwwPC58fpoQDh
                g2KtZseE8E0eDvXtTaVK7a7c0KUNg4gQ9qVCGENYSii9P5JVfucW4th9udWqEOM6SL2qa4TbWaZJ
                kkurDMeHUS30NII/tWeLH1/nLKsLV7N6b1THJrjOjWI93fb8QVEoC38jeFXP6pDHZ06d2btxYyQ
            </v:shape>
        </w:pict>
    </mc:Fallback>

```

```

pnlcIuR7ELF+ZrMnEB1CkYCk/Ifv/4BAAD//wMAUEsBAi0AFAAGAAgAAAAhALaDOJL+AAAA4QEA
ABMAAAAAAAAAAAAAAAAAAAAAAFtDb250ZW50X1R5cGVzXS54bWxQSwECLQAUAAYACAAAACEAOP
XfsCAAA0CAADgAAAAAAAAAAAAAAAAAAuAgAAZHJzL2Uyb0RvYy54bWxQSwECLQAUAAYACAAAACE
Xfp+xtgAAAAGAAQADwAAAAAAAAAAAAAAAAABVBQAAZHZzL2Rvd25yZXVyeG1sUEsFBgAAAAEAAQA
8wAAAFoGAAAAAA== " style="position:absolute;margin-left:11.3pt;margin-
top:3.05pt;width:470.95pt;height:.95pt;z-index:251660288;visibility:visible;mso-wrap-style:square;mso-width-
percent:0;mso-height-percent:0;mso-wrap-distance-left:9pt;mso-wrap-distance-top:0;mso-wrap-distance-
right:9pt;mso-wrap-distance-bottom:0;mso-position-horizontal:absolut;mso-position-horizontal-relative:text;mso-
position-vertical:absolut;mso-position-vertical-relative:text;mso-width-percent:0;mso-height-percent:0;mso-width-
relative:page;mso-height-relative:page;v-text-anchor:top" o:spid="_x0000_s1026"
path="m.I5981426,r.12192l,12192,,e" coordsize="5981426,12192" strokeweight="0" fillcolor="black">
<v:stroke jointstyle="miter" miterlimit="83231"/>
<v:path o:connecttype="custom" textboxrect="0,0,5981426,12192" o:connectangles="0,0,0,0,0"
o:connectlocs="0,0;5981065,0;5981065,12065;0,12065;0,0" arrowok="t"/>
</v:shape>
</w:pict>
<mc:Fallback>
</mc:AlternateContent>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00C65F87">
- <w:rPr>
<w:Fonts w:cs="Calibri" w:hAnsi="Calibri" w:eastAsia="Calibri" w:ascii="Calibri"/>
<w:noProof>
<w:color w:val="000000"/>
<w:lang w:val="en-US"/>
</w:rPr>
- <mc:AlternateContent>
- <mc:Choice Requires="wpg">
- <w:drawing>
- <wp:inline wp14:editId="5479EA42" wp14:anchorId="4819DF07" distR="0" distL="0" distB="0" distT="0">
<wp:extent cx="5987950" cy="859536"/>
<wp:effectExtent r="13335" b="17145" t="0" l="0"/>
<wp:docPr name="Group 10991" id="1"/>
- <wp:cNvGraphicFramePr>
<a:graphicFrameLocks xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
</wp:cNvGraphicFramePr>
- <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
- <a:graphicData uri="http://schemas.microsoft.com/office/word/2010/wordprocessingGroup">
- <wpg:wpg>
- <wpg:cNvGrpSpPr>
<a:grpSpLocks/>
</wpg:cNvGrpSpPr>
- <wpg:grpSpPr bwMode="auto">
- <a:xfrm>
<a:off y="0" x="0"/>
<a:ext cx="5987950" cy="859536"/>
<a:chOff y="396" x="-437"/>
<a:chExt cx="59879" cy="11222"/>
</a:xfrm>
</wpg:grpSpPr>
- <wps:wsp>
<wps:cNvPr name="Rectangle 147" id="4"/>
- <wps:cNvSpPr>
<a:spLocks noChangeArrowheads="1"/>
</wps:cNvSpPr>
- <wps:spPr bwMode="auto">
- <a:xfrm>
<a:off y="396" x="29906"/>
<a:ext cx="422" cy="1865"/>
</a:xfrm>
- <a:prstGeom prst="rect">
<a:avLst/>
</a:prstGeom>
<a:noFill/>
- <a:ln>
<a:noFill/>
</a:ln>
- <a:extLst>
- <a:ext uri="{909E8E84-426E-40DD-AFC4-6F175D3DCCD1}">
- <a14:hiddenFill
xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
- <a:solidFill>
<a:srgbClr val="FFFFFF"/>
</a:solidFill>
</a14:hiddenFill>
</a:ext>
- <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
- <a14:hiddenLine w="9525"
xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
- <a:solidFill>
<a:srgbClr val="000000"/>
</a:solidFill>

```



```

        <a:miter lim="800000"/>
        <a:headEnd/>
        <a:tailEnd/>
      </a14:hiddenLine>
    </a:ext>
  </a:extLst>
</wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    <w:p w:rsidP="00B87D58" w:rsidRDefault="00F91A61" w:rsidR="00F91A61"
      w14:textId="77777777" w14:paraId="SCAB3600"/>
    </w:txbxContent>
  </wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" wrap="square" vert="horz" anchorCtr="0"
  anchor="t" rot="0" upright="1">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 148" id="6"/>
  - <wps:cNvSpPr>
    <a:spLocks noChangeArrowheads="1"/>
  </wps:cNvSpPr>
  <wps:spPr bwMode="auto">
    - <a:xfm>
      <a:off y="5074" x="29906"/>
      <a:ext cx="422" cy="1865"/>
    </a:xfm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    <a:noFill/>
    - <a:ln>
      <a:noFill/>
    </a:ln>
    - <a:extLst>
      - <a:ext uri="{909E8E84-426E-40DD-AFC4-6F175D3DCCD1}">
        - <a14:hiddenFill
          xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
          - <a:solidFill>
            <a:srgbClr val="FFFFFF"/>
          </a:solidFill>
          </a14:hiddenFill>
        </a:ext>
        - <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
          - <a14:hiddenLine w="9525"
            xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
            - <a:solidFill>
              <a:srgbClr val="000000"/>
            </a:solidFill>
            <a:miter lim="800000"/>
            <a:headEnd/>
            <a:tailEnd/>
          </a14:hiddenLine>
        </a:ext>
      </a:extLst>
    </wps:spPr>
  </wps:txbx>
  - <w:txbxContent>
    <w:p w:rsidP="00B87D58" w:rsidRDefault="00F91A61" w:rsidR="00F91A61"
      w14:textId="77777777" w14:paraId="4A8D0273"/>
    </w:txbxContent>
  </wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" wrap="square" vert="horz" anchorCtr="0"
  anchor="t" rot="0" upright="1">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 149" id="9"/>
  - <wps:cNvSpPr>
    <a:spLocks noChangeArrowheads="1"/>
  </wps:cNvSpPr>
  <wps:spPr bwMode="auto">
    - <a:xfm>
      <a:off y="9753" x="29906"/>
      <a:ext cx="422" cy="1865"/>
    </a:xfm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    <a:noFill/>

```



```

- <a:ln>
  <a:noFill/>
</a:ln>
- <a:extLst>
  - <a:ext uri="{909E8E84-426E-40DD-AFC4-6F175D3DCCD1}">
    - <a14:hiddenFill
      xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
        - <a:solidFill>
          <a:srgbClr val="FFFFFF"/>
        </a:solidFill>
      </a14:hiddenFill>
    </a:ext>
  - <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
    - <a14:hiddenLine w="9525"
      xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
        - <a:solidFill>
          <a:srgbClr val="000000"/>
        </a:solidFill>
        <a:miter lim="800000"/>
        <a:headEnd/>
        <a:tailEnd/>
      </a14:hiddenLine>
    </a:ext>
  </a:extLst>
</wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    <w:p w:rsidP="00B87D58" w:rsidRDefault="00F91A61" w:rsidR="00F91A61"
      w14:textId="77777777" w14:paraId="0DB12E74"/>
    </w:txbxContent>
  </wps:txbx>
- <wps:bodyPr bLns="0" rLns="0" tLns="0" lLns="0" wrap="square" vert="horz" anchorCtr="0"
  anchor="t" rot="0" upright="1">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 239" id="10"/>
  - <wps:cNvSpPr>
    <a:spLocks noChangeArrowheads="1"/>
  </wps:cNvSpPr>
  - <wps:spPr bwMode="auto">
    - <a:xfrm>
      <a:off y="4647" x="19719"/>
      <a:ext cx="17818" cy="1682"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    <a:noFill/>
  - <a:ln>
    <a:noFill/>
  </a:ln>
  - <a:extLst>
    - <a:ext uri="{909E8E84-426E-40DD-AFC4-6F175D3DCCD1}">
      - <a14:hiddenFill
        xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
          - <a:solidFill>
            <a:srgbClr val="FFFFFF"/>
          </a:solidFill>
        </a14:hiddenFill>
      </a:ext>
    - <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
      - <a14:hiddenLine w="9525"
        xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
          - <a:solidFill>
            <a:srgbClr val="000000"/>
          </a:solidFill>
          <a:miter lim="800000"/>
          <a:headEnd/>
          <a:tailEnd/>
        </a14:hiddenLine>
      </a:ext>
    </a:extLst>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00B87D58" w:rsidRDefault="00F91A61" w:rsidRPr="0073549D"
      w:rsidR="00F91A61" w14:textId="77BDEC4A" w14:paraId="4D267F5D">
      - <w:pPr>
        <w:je w:val="center"/>
      - <w:rPr>

```

```

        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:sz w:val="20"/>
        <w:szCs w:val="20"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
</w:pPr>
- <w:r w:rsidRP="0073549D">
    - <w:rPr>
        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:sz w:val="20"/>
        <w:szCs w:val="20"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Contents lists available at</w:t>
</w:r>
- <w:r>
    - <w:rPr>
        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:sz w:val="20"/>
        <w:szCs w:val="20"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>.</w:t>
</w:r>
</w:p>
</w:txbxContent>
</wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" wrap="square" vert="horz" anchorCtr="0"
    anchor="t" rot="0" upright="1">
    <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
    <wps:cNvPr name="Shape 13829" id="13"/>
    - <wps:cNvSpPr>
        <a:spLocks/>
    </wps:cNvSpPr>
    - <wps:spPr bwMode="auto">
        - <a:xfrm>
            <a:off y="6729" x="-437"/>
            <a:ext cx="59809" cy="4204"/>
        </a:xfrm>
        - <a:custGeom>
            <a:avLst/>
            - <a:gdLst>
                <a:gd name="T0" fmla="*/ 0 w 5467472"/>
                <a:gd name="T1" fmla="*/ 0 h 365760"/>
                <a:gd name="T2" fmla="*/ 5467472 w 5467472"/>
                <a:gd name="T3" fmla="*/ 0 h 365760"/>
                <a:gd name="T4" fmla="*/ 5467472 w 5467472"/>
                <a:gd name="T5" fmla="*/ 365760 h 365760"/>
                <a:gd name="T6" fmla="*/ 0 w 5467472"/>
                <a:gd name="T7" fmla="*/ 365760 h 365760"/>
                <a:gd name="T8" fmla="*/ 0 w 5467472"/>
                <a:gd name="T9" fmla="*/ 0 h 365760"/>
                <a:gd name="T10" fmla="*/ 0 w 5467472"/>
                <a:gd name="T11" fmla="*/ 0 h 365760"/>
                <a:gd name="T12" fmla="*/ 5467472 w 5467472"/>
                <a:gd name="T13" fmla="*/ 365760 h 365760"/>
            </a:gdLst>
            <a:ahLst/>
            - <a:cxnLst>
                - <a:cxn ang="0">
                    <a:pos y="T1" x="T0"/>
                </a:cxn>
                - <a:cxn ang="0">
                    <a:pos y="T3" x="T2"/>
                </a:cxn>
                - <a:cxn ang="0">
                    <a:pos y="T5" x="T4"/>
                </a:cxn>
                - <a:cxn ang="0">
                    <a:pos y="T7" x="T6"/>
                </a:cxn>
                - <a:cxn ang="0">
                    <a:pos y="T9" x="T8"/>
                </a:cxn>
            </a:cxnLst>
            <a:rect r="T12" b="T13" t="T11" l="T10"/>
        </a:pathLst>
        - <a:path w="5467472" h="365760">
            - <a:moveTo>

```

```

        <a:pt y="0" x="0"/>
      </a:moveTo>
    - <a:lnTo>
      <a:pt y="0" x="5467472"/>
    </a:lnTo>
    - <a:lnTo>
      <a:pt y="365760" x="5467472"/>
    </a:lnTo>
    - <a:lnTo>
      <a:pt y="365760" x="0"/>
    </a:lnTo>
    - <a:lnTo>
      <a:pt y="0" x="0"/>
    </a:lnTo>
  </a:path>
</a:pathLst>
</a:custGeom>
- <a:solidFill>
  - <a:schemeClr val="accent5">
    <a:lumMod val="75000"/>
  </a:schemeClr>
</a:solidFill>
- <a:ln>
  <a:noFill/>
</a:ln>
- <a:extLst>
  - <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
    - <a14:hiddenLine w="0"
      xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"
      cap="rnd">
      - <a:solidFill>
        <a:srgbClr val="000000"/>
      </a:solidFill>
      <a:miter lim="127000"/>
      <a:headEnd/>
      <a:tailEnd/>
    </a14:hiddenLine>
  </a:ext>
</a:extLst>
</wps:spPr>
- <wps:bodyPr bIns="45720" rIns="91440" tIns="45720" lIns="91440" wrap="square" vert="horz"
  anchorCtr="0" anchor="t" rot="0" upright="1">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 244" id="14"/>
  - <wps:cNvSpPr>
    <a:spLocks noChangeArrowheads="1"/>
  </wps:cNvSpPr>
  - <wps:spPr bwMode="auto">
    - <a:xfrm>
      <a:off y="6970" x="18351"/>
      <a:ext cx="29337" cy="2213"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    <a:noFill/>
  - <a:ln>
    <a:noFill/>
  </a:ln>
  - <a:extLst>
    - <a:ext uri="{909E8E84-426E-40DD-AFC4-6F175D3DCCD1}">
      - <a14:hiddenFill
        xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
        - <a:solidFill>
          <a:srgbClr val="FFFFFF"/>
        </a:solidFill>
      </a14:hiddenFill>
    </a:ext>
    - <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
      - <a14:hiddenLine w="9525"
        xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
        - <a:solidFill>
          <a:srgbClr val="000000"/>
        </a:solidFill>
        <a:miter lim="800000"/>
        <a:headEnd/>
        <a:tailEnd/>
      </a14:hiddenLine>
    </a:ext>
  </a:extLst>

```

```

    </a:extLst>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00B87D58" w:rsidRDefault="00F91A61" w:rsidRPr="008159AD"
      w:rsidR="00F91A61" w14:textId="77777777" w14:paraId="3D28E137">
      - <w:pPr>
        - <w:rPr>
          <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
          <w:color w:val="FFFFFF" w:themeColor="background1"/>
          <w:sz w:val="20"/>
          <w:szCs w:val="20"/>
          <w:lang w:val="en-US"/>
        </w:rPr>
      </w:pPr>
    - <w:r w:rsidRPr="008159AD">
      - <w:rPr>
        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:color w:val="FFFFFF" w:themeColor="background1"/>
        <w:sz w:val="20"/>
        <w:szCs w:val="20"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t xml:space="preserve">Journal homepage: </w:t>
    </w:r>
    - <w:hyperlink r:id="rId11" w:history="1">
      - <w:r w:rsidRPr="008159AD">
        - <w:rPr>
          <w:rStyle w:val="Hyperlink"/>
          <w:color w:val="FFFFFF" w:themeColor="background1"/>
          <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>https://www.najfnr.org</w:t>
      </w:r>
    </w:hyperlink>
  </w:txbxContent>
</wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" wrap="square" vert="horz" anchorCtr="0"
  anchor="t" rot="0" upright="1">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 246" id="15"/>
  - <wps:cNvSpPr>
    <a:spLocks noChangeArrowheads="1"/>
  </wps:cNvSpPr>
  - <wps:spPr bwMode="auto">
    - <a:xfrm>
      <a:off y="6976" x="38822"/>
      <a:ext cx="380" cy="1682"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    <a:noFill/>
  - <a:ln>
    <a:noFill/>
  </a:ln>
  - <a:extLst>
    - <a:ext uri="{909E8E84-426E-40DD-AFC4-6F175D3DCCD1}">
      - <a14:hiddenFill
        xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
        - <a:solidFill>
          <a:srgbClr val="FFFFFF"/>
        </a:solidFill>
      </a14:hiddenFill>
    </a:ext>
    - <a:ext uri="{91240B29-F687-4F45-9708-019B960494DF}">
      - <a14:hiddenLine w="9525"
        xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main">
        - <a:solidFill>
          <a:srgbClr val="000000"/>
        </a:solidFill>
        <a:miter lim="800000"/>
        <a:headEnd/>
        <a:tailEnd/>
      </a14:hiddenLine>
    </a:ext>
  </a:extLst>
</wps:spPr>

```

```

- <wps:txbx>
  - <w:txbxContent>
    <w:p w:rsidP="00B87D58" w:rsidRDefault="00F91A61" w:rsidR="00F91A61"
      w14:textId="77777777" w14:paraId="23B4E223"/>
    </w:txbxContent>
  </wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" wrap="square" vert="horz" anchorCtr="0"
  anchor="t" rot="0" upright="1">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 255" id="16"/>
  - <wps:cNvSpPr>
    <a:spLocks noChangeArrowheads="1"/>
  </wps:cNvSpPr>
  - <wps:spPr bwMode="auto">
    - <a:xfrm>
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Wl0ObuVMFm6kcBhFX4Yzra62kC6xqGIKVgtLreUTUfI CyWnHhXKbTCzJ1VbKjMX5LzcTvvf9HuXR
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+XP4/yUdIFc3AAAA//8DAFBLAQItABQABgAIAAAAIQDb4fbL7gAAAIUBAAATAAAAAAAAAAAAAAAAA
AAAAAAAAABbQ29udGVudF9UeXBlc10ueG1sUesBAi0AFAAGAAgAAAAhAfr0LFu/AAAAFQEAAAsAAAAA
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AAAAAAAAAAAAABwIAAGRycy9kb3ducmlv2LnhtbFBLBQYAAAAAAwADALCAAAD1AgAAAAA= "
style="position:absolute;left:-437;top:6729;width:59809;height:4204;visibility:visible;mso-wrap-
style:square;v-text-anchor:top" o:spid="_x0000_s1033" path="m,15467472,r,365760l,365760,e"
coo:size="5467472,365760" strokeweight="0" fillcolor="#2e74b5 [2408]">
<v:stroke jointstyle="miter" miterlimit="83231f" endcap="round">
<v:path o:connecttype="custom" textboxrect="0,0,5467472,365760" o:connectangles="0,0,0,0"
o:connectlocs="0,0;59809,0;59809,4204;0,4204;0,0" arrowok="t">
</v:shape>
- <v:rect id="Rectangle 244" stroked="f" filled="f"
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style="position:absolute;left:18351;top:6970;width:29337;height:2213;visibility:visible;mso-wrap-
style:square;v-text-anchor:top" o:spid="_x0000_s1034">
- <v:tblxContent>
- <v:tblxContent>
- <w:p>
- <w:pPr>
- <w:rPr>
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<w:color w:val="FFFFFF" w:themeColor="background1"/>
<w:sz w:val="20"/>
<w:szCs w:val="20"/>
<w:lang w:val="en-US"/>
</w:rPr>
</w:pPr>
- <w:r w:rsidRPr="008159AD">
- <w:rPr>
<w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
<w:color w:val="FFFFFF" w:themeColor="background1"/>
<w:sz w:val="20"/>
<w:szCs w:val="20"/>
<w:lang w:val="en-US"/>
</w:rPr>
<w:t xml:space="preserve">Journal homepage: </w:t>
</w:r>
- <w:hyperlink r:id="rId12" w:history="1">
- <w:r w:rsidRPr="008159AD">
- <w:rPr>
<w:rStyle w:val="Hyperlink"/>
<w:color w:val="FFFFFF" w:themeColor="background1"/>
<w:lang w:val="en-US"/>
</w:rPr>
<w:t>https://www.najfnr.org</w:t>
</w:r>

```



```

</w:hyperlink>
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</v:rect>
- <v:rect id="Rectangle 246" stroked="f" filled="f"
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qYLzadMdgXAeWWNhmRT8klP5rN2aYqxtzQd6HX0qQgi7GBVvk3pexlC7JyKDr2ZI4cHdbGfQBvqnU
FdYh3BRyEEXf0mDOoSHDkpYZJY/j0yYjsrFdWd/67RY37aX/WW8Oo29UI+dZjEB4anx/+I/906H
+UP4/BIOkLM3AAAA/8DAFBLAQItABQABgAIAAAAIQDb4fbL7gAAAIUBAAATAAAAAIAAAAAAAAAA
AAAAAAAAABQ29udGVudF9UeXBlc10ueG1sUEsBAi0AFAGAAgAAAAhAFr0LFu/AAAAFQEAAAsAAAAA
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AAAAAAAAAAAAABwIAAGRyey9kb3ducml2LnhtbFBLBQYAAAAAAwADALCAAAD1AgAAAAA="
style="position:absolute;left:38822;top:6976;width:380;height:1682;visibility:visible;mso-wrap-
style:square;v-text-anchor:top" o:spid="_x0000_s1035">
- <v:textbox inset="0,0,0,0">
- <w:txbxContent>
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w14:textId="77777777" w14:paraId="23B4E223"/>
</w:txbxContent>
</v:textbox>
</v:rect>
- <v:rect id="Rectangle 255" stroked="f" filled="f"
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style="position:absolute;left:59021;top:9067;width:421;height:1865;visibility:visible;mso-wrap-
style:square;v-text-anchor:top" o:spid="_x0000_s1036">
- <v:textbox inset="0,0,0,0">
- <w:txbxContent>
<w:p w:rsidP="00B87D58" w:rsidRDefault="00F91A61" w:rsidR="00F91A61"
w14:textId="77777777" w14:paraId="50AE9412"/>
</w:txbxContent>
</v:textbox>
</v:rect>
<w10:anchorlock/>
</v:group>
<w:pict>
</mc:Fallback>
</mc:AlternateContent>
</w:r>
</w:p>
- <w:p w:rsidP="004034FC" w:rsidRDefault="004034FC" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="1D46837A"
w14:paraId="07ED8034">
- <w:pPr>
<w:keepNext/>
<w:keepLines/>
<w:spacing w:after="147" w:lineRule="auto" w:line="277"/>
<w:ind w:hanging="10" w:left="240"/>
<w:jc w:val="center"/>
<w:outlineLvl w:val="0"/>
- <w:rPr>
<w:rFonts w:cs="Calibri" w:hAnsi="Century Gothic" w:eastAsia="Calibri" w:ascii="Century Gothic"/>
<w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
<w:sz w:val="30"/>
<w:szCs w:val="30"/>
<w:lang w:val="en-US"/>
</w:rPr>

```

```

</w:pPr>
<w:bookmarkStart w:name="_Hlk29160991" w:id="3"/>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Century Gothic" w:eastAsia="Calibri" w:ascii="Century Gothic"/>
    <w:b/>
    <w:bCs/>
    <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
    <w:sz w:val="30"/>
    <w:szCs w:val="30"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Sprouting bioprocess as a sustainable tool for enhancing durum wheat (</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Century Gothic" w:eastAsia="Calibri" w:ascii="Century Gothic"/>
    <w:b/>
    <w:bCs/>
    <w:i/>
    <w:iCs/>
    <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
    <w:sz w:val="30"/>
    <w:szCs w:val="30"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Triticum durum</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Century Gothic" w:eastAsia="Calibri" w:ascii="Century Gothic"/>
    <w:b/>
    <w:bCs/>
    <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
    <w:sz w:val="30"/>
    <w:szCs w:val="30"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>) nutrients and bioactive compounds</w:t>
</w:r>
</w:p>
<w:bookmarkEnd w:id="3"/>
- <w:p w:rsidP="004034FC" w:rsidRDefault="00FD2202" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="1C39BB75"
w14:paraId="3D5C00D7">
  - <w:pPr>
    <w:spacing w:after="5"/>
    <w:ind w:hanging="10" w:left="235"/>
    <w:jc w:val="center"/>
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:b/>
    <w:bCs/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
</w:pPr>
- <w:r>
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:noProof/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
- <w:drawing>
  - <wp:anchor wp14:editId="3FD58DC0" wp14:anchorId="2F498B31" allowOverlap="1" layoutInCell="1" locked="0" behindDoc="0"
relativeHeight="251678720" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
    <wp:simplePos y="0" x="0"/>
    - <wp:positionH relativeFrom="column">
      <wp:posOffset>4768494</wp:posOffset>
    </wp:positionH>
    - <wp:positionV relativeFrom="paragraph">
      <wp:posOffset>1905</wp:posOffset>
    </wp:positionV>
    <wp:extent cx="123190" cy="115570"/>
    <wp:effectExtent r="0" b="0" t="0" l="0"/>
    <wp:wrapNone/>
    - <wp:docPr name="Picture 12" id="12">
      <a:click r:id="rId13" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
    </wp:docPr>
    - <wp:cNvGraphicFramePr>

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```

        <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
      </wp:cNvGraphicFramePr>
    - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
      - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
        - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
          - <pic:nvPicPr>
            - <pic:cNvPr name="Picture 12" id="12">
              <a:click r:id="rId13"/>
            </pic:cNvPr>
            - <pic:cNvPicPr>
              <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
            </pic:cNvPicPr>
          </pic:nvPicPr>
          - <pic:blipFill>
            - <a:blip estate="print" r:embed="rId14">
              - <a:extLst>
                - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
                  <a14:useLocalDpi val="0"
                    xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
                </a:ext>
              </a:extLst>
            </a:blip>
            <a:srcRect/>
            - <a:stretch>
              <a:fillRect/>
            </a:stretch>
          </pic:blipFill>
          - <pic:spPr bwMode="auto">
            - <a:xfrm>
              <a:off y="0" x="0"/>
              <a:ext cx="123190" cy="115570"/>
            </a:xfrm>
            - <a:prstGeom prst="rect">
              <a:avLst/>
            </a:prstGeom>
            <a:noFill/>
            - <a:ln>
              <a:noFill/>
            </a:ln>
          </pic:spPr>
        </pic:pic>
      </a:graphicData>
    </a:graphic>
    - <wp14:sizeRelH relativeFrom="margin">
      <wp14:pctWidth>0</wp14:pctWidth>
    </wp14:sizeRelH>
    - <wp14:sizeRelV relativeFrom="margin">
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    </wp14:sizeRelV>
  </wp:anchor>
</w:drawing>
</w:r>
- <w:r w:rsidR="00A45CC6">
  - <w:rPr>
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    <w:noProof/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  - <w:drawing>
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      relativeHeight="251682816" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
      <wp:simplePos y="0" x="0"/>
      - <wp:positionH relativeFrom="column">
        <wp:posOffset>5223817</wp:posOffset>
      </wp:positionH>
      - <wp:positionV relativeFrom="paragraph">
        <wp:posOffset>154305</wp:posOffset>
      </wp:positionV>
      <wp:extent cx="123190" cy="115570"/>
      <wp:effectExtent t="0" b="0" t="0" l="0"/>
      <wp:wrapNone/>
      - <wp:docPr name="Picture 22" id="22">
        <a:click r:id="rId15" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
      </wp:docPr>
    - <wp:cNvGraphicFramePr>
      <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
    </wp:cNvGraphicFramePr>
    - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
      - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
        - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">

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- <pic:nvPicPr>
  - <pic:cNvPr name="Picture 22" id="22">
    <a:linkClick r:id="rId15"/>
    <pic:cNvPr>
      - <pic:cNvPicPr>
        <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
        <pic:cNvPicPr>
      </pic:nvPicPr>
    - <pic:blipFill>
      - <a:blip estate="print" r:embed="rId14">
        - <a:extLst>
          - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
            <a14:useLocalDpi val="0"
              xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
            </a:ext>
          </a:extLst>
          <a:blip>
            <a:srcRect/>
          - <a:stretch>
            <a:fillRect/>
            </a:stretch>
          </pic:blipFill>
        - <pic:spPr bwMode="auto">
          - <a:xfrm>
            <a:off y="0" x="0"/>
            <a:ext cx="123190" cy="115570"/>
            </a:xfrm>
          - <a:prstGeom prst="rect">
            <a:avLst/>
            <a:prstGeom>
              <a:noFill/>
            - <a:ln>
              <a:noFill/>
            </a:ln>
          </pic:spPr>
        </pic:pic>
      </a:graphicData>
    </a:graphic>
  - <wp14:sizeRelH relativeFrom="margin">
    <wp14:pctWidth>0</wp14:pctWidth>
  </wp14:sizeRelH>
  - <wp14:sizeRelV relativeFrom="margin">
    <wp14:pctHeight>0</wp14:pctHeight>
  </wp14:sizeRelV>
</wp:anchor>
</w:drawing>
</w:r>
- <w:r w:rsidR="00A45CC6">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:noProof/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  - <w:drawing>
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      relativeHeight="251680768" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
      <wp:simplePos y="0" x="0"/>
      - <wp:positionH relativeFrom="column">
        <wp:posOffset>1858645</wp:posOffset>
      </wp:positionH>
      - <wp:positionV relativeFrom="paragraph">
        <wp:posOffset>166698</wp:posOffset>
      </wp:positionV>
      <wp:extent cx="123190" cy="115570"/>
      <wp:effectExtent t="0" b="0" l="0" r="0"/>
      <wp:wrapNone/>
    - <wp:docPr name="Picture 20" id="20">
      <a:linkClick r:id="rId16" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
    </wp:docPr>
    - <wp:cNvGraphicFramePr>
      <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
    </wp:cNvGraphicFramePr>
    - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
      - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
        - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
          - <pic:nvPicPr>
            - <pic:cNvPr name="Picture 20" id="20">
              <a:linkClick r:id="rId16"/>
            </pic:cNvPr>
          - <pic:cNvPicPr>

```

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        <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
      </pic:cNvPicPr>
    </pic:nvPicPr>
  - <pic:blipFill>
    - <a:blip cstate="print" r:embed="rId14">
      - <a:extLst>
        - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
          <a14:useLocalDpi val="0"
            xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
        </a:ext>
      </a:extLst>
    </a:blip>
    <a:srcRect/>
    - <a:stretch>
      <a:fillRect/>
    </a:stretch>
  </pic:blipFill>
  - <pic:spPr bwMode="auto">
    - <a:xfrm>
      <a:off y="0" x="0"/>
      <a:ext cx="123190" cy="115570"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    <a:noFill/>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </pic:spPr>
</pic:pic>
<a:graphicData>
  <a:graphic>
    - <wp14:sizeRelH relativeFrom="margin">
      <wp14:pctWidth>0</wp14:pctWidth>
    </wp14:sizeRelH>
    - <wp14:sizeRelV relativeFrom="margin">
      <wp14:pctHeight>0</wp14:pctHeight>
    </wp14:sizeRelV>
  </wp:anchor>
</w:drawing>
</w:r>
- <w:r w:rsidR="00A45CC6">
  - <w:rPr>
    <w:fonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:noProof/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  - <w:drawing>
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      behindDoc="0" relativeHeight="251674624" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
      <wp:simplePos y="0" x="0"/>
      - <wp:positionH relativeFrom="column">
        <wp:posOffset>1118235</wp:posOffset>
      </wp:positionH>
      - <wp:positionV relativeFrom="paragraph">
        <wp:posOffset>3175</wp:posOffset>
      </wp:positionV>
      <wp:extent cx="123190" cy="115570"/>
      <wp:effectExtent r="0" b="0" t="0" l="0"/>
      <wp:wrapNone/>
      - <wp:docPr name="Picture 5" id="5">
        <a:hlinkClick r:id="rId17" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
      </wp:docPr>
      - <wp:cNvGraphicFramePr>
        <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
      </wp:cNvGraphicFramePr>
      - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
        - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
          - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
            - <pic:nvPicPr>
              - <pic:cNvPr name="Picture 5" id="5">
                <a:hlinkClick r:id="rId17"/>
              </pic:cNvPr>
              - <pic:cNvPicPr>
                <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
              </pic:cNvPicPr>
            </pic:nvPicPr>
          - <pic:blipFill>
            - <a:blip cstate="print" r:embed="rId14">

```

```

- <a:extLst>
  - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
    <a14:useLocalDpi val="0"
      xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
    </a:ext>
  </a:extLst>
</a:blip>
<a:srcRect/>
- <a:stretch>
  <a:fillRect/>
</a:stretch>
</pic:blipFill>
- <pic:spPr bwMode="auto">
  - <a:xfmr>
    <a:off y="0" x="0"/>
    <a:ext cx="123190" cy="115570"/>
  </a:xfmr>
  - <a:prstGeom prst="rect">
    <a:avLst/>
  </a:prstGeom>
  <a:noFill/>
- <a:ln>
  <a:noFill/>
</a:ln>
</pic:spPr>
</pic:pic>
</a:graphicData>
</a:graphic>
- <wp14:sizeRelH relativeFrom="margin">
  <wp14:pctWidth>0</wp14:pctWidth>
</wp14:sizeRelH>
- <wp14:sizeRelV relativeFrom="margin">
  <wp14:pctHeight>0</wp14:pctHeight>
</wp14:sizeRelV>
</wp:anchor>
</w:drawing>
</w:r>
- <w:r:rsidR="00A45CC6">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:noProof/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  - <w:drawing>
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      relativeHeight="251676672" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
      <wp:simplePos y="0" x="0"/>
      - <wp:positionH relativeFrom="column">
        <wp:posOffset>2618272</wp:posOffset>
      </wp:positionH>
      - <wp:positionV relativeFrom="paragraph">
        <wp:posOffset>1905</wp:posOffset>
      </wp:positionV>
      <wp:extent cx="123190" cy="115570"/>
      <wp:effectExtent r="0" b="0" t="0" l="0"/>
      <wp:wrapNone/>
      - <wp:docPr name="Picture 11" id="11">
        <a:hlinkClick r:id="rId18" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
      </wp:docPr>
      - <wp:cNvGraphicFramePr>
        <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
      </wp:cNvGraphicFramePr>
      - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
        - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
          - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
            - <pic:nvPicPr>
              - <pic:cNvPr name="Picture 11" id="11">
                <a:hlinkClick r:id="rId18"/>
              </pic:cNvPr>
              - <pic:cNvPicPr>
                <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
              </pic:cNvPicPr>
            </pic:nvPicPr>
            - <pic:blipFill>
              - <a:blip cstate="print" r:embed="rId14">
                - <a:extLst>
                  - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
                    <a14:useLocalDpi val="0"
                      xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
                    </a:ext>
                  </a:extLst>
                </a:ext>
              </a:blip>
            </pic:blipFill>
          </a:graphicData>
        </a:graphic>
      </a:graphic>
    </wp:drawing>
  </w:drawing>
</w:r>

```

```

        </a:extLst>
        </a:blip>
        <a:srcRect/>
        - <a:stretch>
            <a:fillRect/>
            </a:stretch>
        </pic:blipFill>
        - <pic:spPr bwMode="auto">
            - <a:xfrm>
                <a:off y="0" x="0"/>
                <a:ext cx="123190" cy="115570"/>
            </a:xfrm>
            - <a:prstGeom prst="rect">
                <a:avLst/>
            </a:prstGeom>
            <a:noFill/>
            - <a:ln>
                <a:noFill/>
            </a:ln>
        </pic:spPr>
    </pic:pic>
    <a:graphicData>
        </a:graphic>
        - <wp14:sizeRelH relativeFrom="margin">
            <wp14:pctWidth>0</wp14:pctWidth>
        </wp14:sizeRelH>
        - <wp14:sizeRelV relativeFrom="margin">
            <wp14:pctHeight>0</wp14:pctHeight>
        </wp14:sizeRelV>
    </wp:anchor>
</w:drawing>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="00961174" w:rsidR="004034FC">
    - <w:rPr>
        <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
        <w:b/>
        <w:bCs/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="20"/>
        <w:u w:val="single"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Sarra</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="00961174" w:rsidR="004034FC">
    - <w:rPr>
        <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
        <w:b/>
        <w:bCs/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="20"/>
        <w:u w:val="single"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">JRIBI</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="004034FC">
    - <w:rPr>
        <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
        <w:b/>
        <w:bCs/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="20"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="008C0C36">
    - <w:rPr>
        <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
        <w:b/>
        <w:bCs/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="20"/>
        <w:vertAlign w:val="superscript"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>1</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="008C0C36">

```



```

- <w:rPr>
  <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
  <w:b/>
  <w:bCs/>
  <w:color w:val="000000" w:themeColor="text1"/>
  <w:sz w:val="20"/>
  <w:lang w:val="en-US"/>
</w:rPr>
<w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="008F0B7B">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:b/>
    <w:bCs/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>*</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00C220A2">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidR="00A45CC6">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00A45CC6">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>,</w:t>
</w:r>
- <w:r w:rsidR="00A45CC6">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="004034FC">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Otilia Tamara ANTAL</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="008C0C36">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="008C0C36">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
    <w:color w:val="000000" w:themeColor="text1"/>
    <w:sz w:val="20"/>
    <w:vertAlign w:val="superscript"/>
    <w:lang w:val="en-US"/>
  </w:rPr>

```

```

        </w:rPr>
        <w:t>2</w:t>
    </w:r>
    - <w:r w:rsidR="00A45CC6">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>
            <w:vertAlign w:val="superscript"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="00953938">
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            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="004034FC">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>Helga MOLNÁR</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="008C0C36">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="008C0C36">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>
            <w:vertAlign w:val="superscript"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>2</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="00DB630F">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="004034FC">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>Nora ADÁNYI</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="008C0C36">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="008C0C36">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
            <w:sz w:val="20"/>

```

```

        <w:vertAlign w:val="superscript"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
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</w:r>
- <w:r w:rsidR="00A45CC6">
    - <w:rPr>
        <w:rFonts w:cs="Calibri" w:eastAsia="Calibri" w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="20"/>
        <w:vertAlign w:val="superscript"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
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    </w:r>
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- <w:p w:rsidP="004034FC" w:rsidRDefault="004034FC" w:rsidRPr="00961174" w:rsidR="005B71AA" w14:textId="46362F0B"
  w14:paraId="61428E9D">
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- <w:r w:rsidRPr="00961174">
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  <w:t>agro</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
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    <w:bCs/>
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</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00DB630F">
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    <w:bCs/>
    <w:color w:val="000000"/>
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  w14:paraId="27B78367">
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- <w:r w:rsidRPr="00961174">
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        <w:bCs/>
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    <w:t>utca</w:t>
</w:r>
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        <w:bCs/>
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    <w:t xml:space="preserve"> 15, H-1022 Budapest, Hungary.</w:t>
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</w:p>
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        <w:color w:val="000000"/>
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        <w:color w:val="000000"/>
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</w:r>
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        <w:szCs w:val="16"/>
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    </w:rPr>
    <w:t>Bou</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
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        <w:bCs/>
        <w:color w:val="000000"/>
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        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
        <w:vertAlign w:val="superscript"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>4</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
        <w:rFonts w:eastAsia="Calibri" w:cstheme="majorHAnsi" w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi"/>
        <w:bCs/>
        <w:color w:val="000000"/>
        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"> National Institute of Agronomy of Tunisia (INAT), Genetic and Plant Breeding Laboratory, University of
    Carthage, 43 Avenue Charles Nicolle, 1082 Tunis, Tunisia.</w:t>
</w:r>
</w:p>
-

```

```

<w:p w:rsidP="00B87D58" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w:l4:textId="77777777"
w:l4:paraId="30005795">
  - <w:pPr>
    <w:spacing w:after="5"/>
    <w:ind w:hanging="10" w:left="235"/>
    <w:jc w:val="center"/>
  - <w:rPr>
    <w:rFonts w:eastAsia="Calibri" w:cstheme="majorHAnsi" w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi"/>
    <w:bCs/>
    <w:color w:val="000000"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
</w:p>
- <w:tbl>
  - <w:tblPr>
    <w:tblStyle w:val="TableGrid"/>
    <w:tblPr w:tblpY="134" w:horzAnchor="margin" w:vertAnchor="text"/>
    <w:tblOverlap w:val="never"/>
    <w:tblW w:w="4775" w:type="dxa"/>
    <w:tblInd w:w="0" w:type="dxa"/>
    <w:tblLook w:val="04A0" w:noVBand="1" w:noHBand="0" w:lastColumn="0" w:firstColumn="1" w:lastRow="0" w:firstRow="1"/>
  </w:tblPr>
  - <w:tblGrid>
    <w:gridCol w:w="2605"/>
    <w:gridCol w:w="185"/>
    <w:gridCol w:w="1985"/>
  </w:tblGrid>
  - <w:tr w:rsidRPr="00961174" w:rsidR="00B87D58" w:l4:textId="77777777" w:l4:paraId="252C20AF" w:rsidTr="00777946">
    - <w:trPr>
      <w:trHeight w:val="562"/>
    </w:trPr>
    - <w:tc>
      - <w:tcPr>
        <w:tcW w:w="2605" w:type="dxa"/>
      </w:tcPr>
      - <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w:l4:textId="77777777"
w:l4:paraId="182CACDF">
        - <w:pPr>
          <w:contextualSpacing/>
        - <w:rPr>
          <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
          <w:b/>
          <w:bCs/>
          <w:color w:val="2F5496" w:themeShade="BF" w:themeColor="accent1"/>
          <w:sz w:val="20"/>
          <w:lang w:val="en-US"/>
        </w:rPr>
      </w:pPr>
    </w:tc>
  </w:tr>
  - <w:p w:rsidP="008B3509" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w:l4:textId="77777777"
w:l4:paraId="04F0B444">
    - <w:pPr>
      <w:ind w:left="142"/>
      <w:contextualSpacing/>
    - <w:rPr>
      <w:rFonts w:cs="Times New Roman" w:hAnsi="Times New Roman" w:eastAsia="Calibri" w:ascii="Times New
Roman"/>
      <w:color w:val="2F5496" w:themeShade="BF" w:themeColor="accent1"/>
      <w:sz w:val="20"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Times New Roman" w:hAnsi="Times New Roman" w:eastAsia="Calibri" w:ascii="Times New
Roman"/>
      <w:color w:val="2F5496" w:themeShade="BF" w:themeColor="accent1"/>
      <w:sz w:val="20"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>A R T I C L E I N F O</w:t>
  </w:r>
</w:p>
</w:tc>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="185" w:type="dxa"/>
    <w:vAlign w:val="bottom"/>
  </w:tcPr>

```

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- <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777"
  w14:paraId="21405299">
  - <w:pPr>
    <w:contextualSpacing/>
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Calibri" w:eastAsia="Calibri" w:ascii="Calibri"/>
      <w:color w:val="000000"/>
      <w:sz w:val="20"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
</w:p>
</w:tc>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="1985" w:type="dxa"/>
  </w:tcPr>
  - <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777"
    w14:paraId="3BAD6C68">
    - <w:pPr>
      <w:contextualSpacing/>
      <w:jc w:val="both"/>
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
</w:p>
- <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="705C7F29"
  w14:paraId="0724ADCC">
  - <w:pPr>
    <w:contextualSpacing/>
    <w:jc w:val="both"/>
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Bell MT" w:eastAsia="Calibri" w:ascii="Bell MT"/>
    <w:color w:val="000000"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Bell MT" w:eastAsia="Calibri" w:ascii="Bell MT"/>
    <w:color w:val="000000"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="0062768A">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Bell MT" w:eastAsia="Calibri" w:ascii="Bell MT"/>
    <w:color w:val="000000"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Bell MT" w:eastAsia="Calibri" w:ascii="Bell MT"/>
    <w:color w:val="2F5496" w:themeShade="BF" w:themeColor="accent1"/>
    <w:sz w:val="20"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">A B S T R A C T</w:t>
</w:r>
</w:p>
</w:tc>
</w:tr>
</w:tbl>
- <w:p w:rsidP="00B87D58" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777"
  w14:paraId="28EEAE8B">
  - <w:pPr>
    <w:spacing w:after="0"/>
    <w:jc w:val="both"/>
  - <w:rPr>

```

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        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
</w:pPr>
</w:p>
- <w:p w:rsidP="00B87D58" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777"
  w14:paraId="67AAE395">
  - <w:pPr>
    - <w:rPr>
      <w:sz w:val="4"/>
      <w:szCs w:val="4"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
</w:p>
- <w:tbl>
  - <w:tblPr>
    <w:tblStyle w:val="TableGrid0"/>
    <w:tblPr w:tblpY="314" w:horzAnchor="margin" w:vertAnchor="text" w:tblpX="90" w:rightFromText="180" w:leftFromText="180"/>
    <w:tblW w:w="9540" w:type="dxa"/>
    - <w:tblBorders>
      <w:top w:val="none" w:color="auto" w:space="0" w:sz="0"/>
      <w:left w:val="none" w:color="auto" w:space="0" w:sz="0"/>
      <w:bottom w:val="none" w:color="auto" w:space="0" w:sz="0"/>
      <w:right w:val="none" w:color="auto" w:space="0" w:sz="0"/>
      <w:insideH w:val="none" w:color="auto" w:space="0" w:sz="0"/>
      <w:insideV w:val="none" w:color="auto" w:space="0" w:sz="0"/>
    </w:tblBorders>
    <w:tblLook w:val="04A0" w:noVBand="1" w:noHBand="0" w:lastColumn="0" w:firstColumn="1" w:lastRow="0" w:firstRow="1"/>
  </w:tblPr>
  - <w:tblGrid>
    <w:gridCol w:w="2674"/>
    <w:gridCol w:w="6866"/>
  </w:tblGrid>
  - <w:tr w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777" w14:paraId="7F01C56D" w:rsidTr="00777946">
    - <w:trPr>
      <w:trHeight w:val="3024"/>
    </w:trPr>
    - <w:tc>
      - <w:tcPr>
        <w:tcW w:w="2674" w:type="dxa"/>
        <w:shd w:val="clear" w:color="auto" w:themeFill="background2" w:fill="E7E6E6"/>
      </w:tcPr>
      - <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777"
        w14:paraId="21E9CA36">
        - <w:pPr>
          <w:spacing w:before="340"/>
          <w:ind w:left="29"/>
        - <w:rPr>
          <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
          MT"/>
          <w:b/>
          <w:bCs/>
          <w:iCs/>
          <w:color w:val="000000"/>
          <w:sz w:val="14"/>
          <w:szCs w:val="14"/>
          <w:lang w:val="en-US"/>
        </w:rPr>
      </w:pPr>
    </w:pPr>
    - <w:r w:rsidRPr="00961174">
      - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
        MT"/>
        <w:b/>
        <w:bCs/>
        <w:iCs/>
        <w:color w:val="000000"/>
        <w:sz w:val="14"/>
        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t xml:space="preserve">Article history:</w:t>
    </w:r>
  </w:p>
  - <w:p w:rsidP="00CD11EC" w:rsidRDefault="0034234C" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="64AEE0B1"
    w14:paraId="20FF2F7E">
    - <w:pPr>

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```

        <w:ind w:left="29"/>
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
          w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
          w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">Received </w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00CD11EC">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
          w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>08 Febr</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00061145">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
          w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>uary 2020</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00777946" w:rsidRDefault="00CD11EC" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="2C37174B"
  w14:parId="78CDBF40">
    - <w:pPr>
        <w:ind w:left="29"/>
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
          w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
          w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Accepted 18</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00061145">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
          w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">April</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
    - <w:rPr>

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        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
            w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"> 20</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00245319">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
            w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>20</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
            w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"></w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00377DA8" w:rsidRDefault="00CA2BD6" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="0AED1E38"
    w14:paraId="082EE939">
    - <w:pPr>
        <w:spacing w:after="120"/>
        <w:ind w:left="29"/>
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
            w:ascii="Leelawadee UI Semilight"/>
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        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    </w:pPr>
    - <w:r w:rsidRPr="00961174">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
                w:ascii="Leelawadee UI Semilight"/>
            <w:color w:val="000000"/>
            <w:sz w:val="12"/>
            <w:szCs w:val="12"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve">Published</w:t>
    </w:r>
    - <w:r w:rsidR="00E05035">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
                w:ascii="Leelawadee UI Semilight"/>
            <w:color w:val="000000"/>
            <w:sz w:val="12"/>
            <w:szCs w:val="12"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve">22</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="00061145">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
                w:ascii="Leelawadee UI Semilight"/>
            <w:color w:val="000000"/>
            <w:sz w:val="12"/>
            <w:szCs w:val="12"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>April</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="003C6734">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
                w:ascii="Leelawadee UI Semilight"/>

```

```

        <w:color w:val="000000"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t xml:space="preserve"></w:t>
    </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
        w:ascii="Leelawadee UI Semilight"/>
      <w:sz w:val="12"/>
      <w:szCs w:val="12"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>20</w:t>
  </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="003E2567">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
        w:ascii="Leelawadee UI Semilight"/>
      <w:sz w:val="12"/>
      <w:szCs w:val="12"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>20</w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777"
  w14:paraId="0AB5E3A3">
  - <w:pPr>
    <w:ind w:left="29"/>
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:iCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:iCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>* Corresponding author info:</w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="00256B97" w:rsidRDefault="00B5565D" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="1CAEFC38"
  w14:paraId="7EEA92F7">
  - <w:pPr>
    <w:ind w:left="29"/>
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
        MT"/>
      <w:b/>
      <w:bCs/>
      <w:iCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
        MT"/>
      <w:iCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:r>

```

```

        </w:rPr>
        <w:t xml:space="preserve">Dr</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="007B24D9">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
            MT"/>
            <w:iCs/>
            <w:color w:val="000000"/>
            <w:sz w:val="14"/>
            <w:szCs w:val="14"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>.</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="007B24D9">
        - <w:rPr>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    <w:proofErr w:type="spellStart"/>
    - <w:r w:rsidRPr="00961174" w:rsidR="009201E3">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
            MT"/>
            <w:iCs/>
            <w:color w:val="000000"/>
            <w:sz w:val="14"/>
            <w:szCs w:val="14"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>Sarra</w:t>
    </w:r>
    <w:proofErr w:type="spellEnd"/>
    - <w:r w:rsidRPr="00961174" w:rsidR="00256B97">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
            MT"/>
            <w:iCs/>
            <w:color w:val="000000"/>
            <w:sz w:val="14"/>
            <w:szCs w:val="14"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="009201E3">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
            MT"/>
            <w:iCs/>
            <w:color w:val="000000"/>
            <w:sz w:val="14"/>
            <w:szCs w:val="14"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>JRIBI</w:t>
    </w:r>
</w:p>
- <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="369A82F2"
w14:paraId="08151B20">
    - <w:pPr>
        <w:ind w:left="29"/>
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
        w:ascii="Leelawadee UI Semilight"/>
        <w:iCs/>
        <w:color w:val="000000"/>
        <w:sz w:val="14"/>
        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:pPr>
    - <w:r w:rsidRPr="00961174">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen
            MT"/>
            <w:iCs/>
            <w:color w:val="000000"/>
            <w:sz w:val="14"/>
            <w:szCs w:val="14"/>

```



```

        <w:lang w:val="en-US"/>
      </w:rPr>
    <w:t xml:space="preserve">Email: </w:t>
  </w:r>
  - <w:hyperlink r:id="rId19" w:history="1">
    - <w:r w:rsidRPr="00961174" w:rsidR="00AD6B8C">
      - <w:rPr>
        <w:rStyle w:val="Hyperlink"/>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
        <w:sz w:val="14"/>
        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t>sarra.jribi@gmail.com</w:t>
    </w:r>
  </w:hyperlink>
</w:p>
- <w:p w:rsidP="00E02FAF" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="62CF3CB7" w14:paraId="1A629D28">
  - <w:pPr>
    <w:ind w:left="29"/>
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
      <w:iCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri" w:ascii="Leelawadee UI Semilight"/>
      <w:iCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">Tel. </w:t>
  </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="00D66CC3">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
      <w:iCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>+</w:t>
  </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="00AD6B8C">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
      <w:iCs/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>216 21 927 237</w:t>
  </w:r>
</w:p>
- <w:tbl>
  - <w:tblPr>
    <w:tblStyle w:val="TableGrid0"/>
    <w:tblPr w:tblY="147" w:horzAnchor="margin" w:vertAnchor="text" w:rightFromText="180" w:leftFromText="180" w:tblXSpec="center"/>
    <w:tblOverlap w:val="never"/>
    <w:tblW w:w="2448" w:type="dxa"/>
    <w:tblLook w:val="04A0" w:noVBand="1" w:noHBand="0" w:lastColumn="0" w:firstColumn="1" w:lastRow="0" w:firstRow="1"/>
  </w:tblPr>
  - <w:tblGrid>
    <w:gridCol w:w="2448"/>
  </w:tblGrid>

```

```

- <w:tr w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777" w14:paraId="616038F7" w:rsidTr="00077D60">
  - <w:tc>
    - <w:tcPr>
      <w:tcW w:w="2448" w:type="dxa"/>
      <w:shd w:val="clear" w:color="auto" w:themeFill="accent5" w:fill="2E74B5" w:themeFillShade="BF"/>
    </w:tcPr>
  - <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58"
    w14:textId="77777777" w14:paraId="5433C6D8">
    - <w:pPr>
      <w:autoSpaceDE w:val="0"/>
      <w:autoSpaceDN w:val="0"/>
      <w:adjustRightInd w:val="0"/>
      <w:snapToGrid w:val="0"/>
      <w:ind w:left="29"/>
      <w:jc w:val="center"/>
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:color w:val="FFFFFF" w:themeColor="background1"/>
      <w:sz w:val="20"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Arial-BoldMT" w:hAnsi="Tw Cen MT" w:eastAsia="Times New Roman"
        w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:color w:val="FFFFFF" w:themeColor="background1"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="24"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Access this article online</w:t>
  </w:r>
</w:p>
</w:tc>
</w:tr>
- <w:tr w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777" w14:paraId="2908F2AE" w:rsidTr="00777946">
  - <w:trPr>
    <w:trHeight w:val="720"/>
  </w:trPr>
  - <w:tc>
    - <w:tcPr>
      <w:tcW w:w="2448" w:type="dxa"/>
    - <w:tcBorders>
      <w:bottom w:val="nil"/>
    </w:tcBorders>
    </w:tcPr>
  - <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58"
    w14:textId="77777777" w14:paraId="4376362B">
    - <w:pPr>
      <w:ind w:left="29"/>
      <w:jc w:val="center"/>
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
      <w:color w:val="000000"/>
      <w:sz w:val="20"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Calibri" w:eastAsia="Calibri" w:ascii="Calibri"/>
      <w:noProof/>
      <w:color w:val="000000"/>
      <w:sz w:val="20"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    - <w:drawing>
      - <wp:anchor wp14:editId="64401106" wp14:anchorId="16D77F6C" allowOverlap="1"
        layoutInCell="1" locked="0" behindDoc="0" relativeHeight="251665408" simplePos="0"
        distR="114300" distL="114300" distB="0" distT="0">
        <wp:simplePos y="0" x="0"/>
        - <wp:positionH relativeFrom="column">
          <wp:posOffset>445770</wp:posOffset>
        </wp:positionH>
        - <wp:positionV relativeFrom="paragraph">
          <wp:posOffset>52070</wp:posOffset>
        </wp:positionV>
      </wp:anchor>
    </w:drawing>
  </w:r>
</w:p>
</w:tc>
</w:tr>

```

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<wp:extent cx="402336" cy="374904"/>
<wp:effectExtent r="0" b="6350" t="0" l="0"/>
<wp:wrapNone/>
<wp:docPr name="Picture 3" id="3"/>
- <wp:cNvGraphicFramePr>
  <a:graphicFrameLocks noChangeAspect="1"
    xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
  </wp:cNvGraphicFramePr>
- <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
  - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
    - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
      - <pic:nvPicPr>
        <pic:cNvPr name="" id="1"/>
        <pic:cNvPicPr/>
        <pic:nvPicPr/>
      - <pic:blipFill>
        - <a:blip cstate="print" r:embed="rId20">
          - <a:extLst>
            - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
              <a:l4:useLocalDpi val="0"
                xmlns:a:l4="http://schemas.microsoft.com/office/drawing
              </a:ext>
            </a:extLst>
          </a:blip>
        - <a:stretch>
          <a:fillRect>
          </a:stretch>
        </pic:blipFill>
      - <pic:spPr>
        - <a:xfrm>
          <a:off y="0" x="0"/>
          <a:ext cx="402336" cy="374904"/>
        </a:xfrm>
      - <a:prstGeom prst="rect">
        <a:avLst/>
        <a:prstGeom>
        </pic:spPr>
      </pic:pic>
    </a:graphicData>
  </a:graphic>
</wp:anchor>
</w:drawing>
</w:r>
</w:p>
</w:tr>
- <w:tr w:rsidRPr="00961174" w:rsidR="00B87D58" w:l4:textId="77777777" w:l4:paraId="1B0ED914" w:rsidTr="00777946">
  - <w:trPr>
    <w:trHeight w:val="80"/>
  </w:trPr>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="2448" w:type="dxa"/>
    - <w:tcBorders>
      <w:top w:val="nil"/>
    </w:tcBorders>
    <w:vAlign w:val="center"/>
  </w:tcPr>
- <w:p w:rsidP="00777946" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58"
  w:l4:textId="77777777" w:l4:paraId="5752B5A1">
  - <w:pPr>
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Calibri" w:eastAsia="Calibri" w:ascii="Calibri"/>
      <w:color w:val="000000"/>
      <w:sz w:val="20"/>
      <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Arial-BoldMT" w:hAnsi="Tw Cen MT" w:eastAsia="Times New Roman"
        w:ascii="Tw Cen MT"/>
      <w:color w:val="000000"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="24"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Quick Response Code</w:t>
  </w:r>
</w:p>
</w:tc>
</w:tr>

```

```

- <w:tr w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="77777777" w14:paraId="5F90DC6B" w:rsidTr="00777946">
  - <w:trPr>
    <w:trHeight w:val="202"/>
  </w:trPr>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="2448" w:type="dxa"/>
    <w:vAlign w:val="center"/>
  </w:tcPr>
- <w:p w:rsidP="00DC4415" w:rsidRDefault="00243CBB" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="5640005B" w14:paraId="23AA83D9">
  - <w:pPr>
    <w:ind w:hanging="10" w:left="29"/>
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
      <w:b/>
      <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
      <w:spacing w:val="20"/>
      <w:sz w:val="12"/>
      <w:szCs w:val="12"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="0563C1"/>
    <w:sz w:val="12"/>
    <w:szCs w:val="12"/>
    <w:u w:val="single" w:color="0563C1"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>https:</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="002B6E53">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="0563C1"/>
    <w:sz w:val="12"/>
    <w:szCs w:val="12"/>
    <w:u w:val="single" w:color="0563C1"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>//doi.org/10.5281/zenodo.</w:t>
</w:r>
- <w:r w:rsidRPr="00DC4415" w:rsidR="00DC4415">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="0563C1"/>
    <w:sz w:val="12"/>
    <w:szCs w:val="12"/>
    <w:u w:val="single" w:color="0563C1"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>3736294</w:t>
</w:r>
</w:p>
</w:tc>
</w:tr>
</w:tbl>
- <w:p w:rsidP="005C7F2A" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="005C7F2A" w14:textId="374657D8" w14:paraId="6C2BA12D">
  - <w:pPr>
    <w:spacing w:after="5"/>
    <w:ind w:left="29"/>
    <w:jc w:val="both"/>
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
    <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
    <w:sz w:val="15"/>
    <w:szCs w:val="15"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
    <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
    <w:sz w:val="15"/>

```

```

        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
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    </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="005C7F2A">
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"></w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="0064454A" w:rsidRDefault="005C7F2A" w:rsidRPr="00961174" w:rsidR="00072A6C" w14:textId="41EF03D5"
w14:paraId="44AE48C5">
  - <w:pPr>
    <w:pStyle w:val="ListParagraph"/>
    - <w:numPr>
      <w:ilvl w:val="0"/>
      <w:numId w:val="32"/>
    </w:numPr>
    <w:spacing w:after="5" w:lineRule="auto" w:line="240"/>
    <w:ind w:hanging="142" w:left="179"/>
    - <w:rPr>
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      <w:szCs w:val="15"/>
    </w:rPr>
  </w:pPr>
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    - <w:rPr>
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      <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
    </w:rPr>
    <w:t xml:space="preserve">Dr. </w:t>
  </w:r>
  <w:proofErr w:type="spellStart"/>
  - <w:r w:rsidR="00865914">
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
    </w:rPr>
    <w:t>L</w:t>
  </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="0064454A">
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
    </w:rPr>
    <w:t>uliana</w:t>
  </w:r>
  <w:proofErr w:type="spellEnd"/>
  - <w:r w:rsidRPr="00961174" w:rsidR="0064454A">
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:color w:val="2E74B5" w:themeShade="BF" w:themeColor="accent5"/>
      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
    </w:rPr>
    <w:t xml:space="preserve"></w:t>
  </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="007F455B">
    - <w:rPr>
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      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
    </w:rPr>
    <w:t>BANU</w:t>
  </w:r>
</w:p>
-

```

```

<w:p w:rsidP="007F455B" w:rsidRDefault="007F455B" w:rsidRPr="00961174" w:rsidR="003A7C44" w14:textId="51E765CF"
w14:paraId="05F66DB7">
  - <w:pPr>
    <w:pStyle w:val="ListParagraph"/>
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    </w:numPr>
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    - <w:rPr>
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      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00961174">
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      <w:sz w:val="15"/>
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    </w:rPr>
    <w:t>D</w:t>
  </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="003A7C44">
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      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
    </w:rPr>
    <w:t xml:space="preserve">r.</w:t>
  </w:r>
  - <w:r w:rsidRPr="00961174">
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      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
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      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
    </w:rPr>
    <w:t>Mohamed ZAIRI</w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="00CB3DFD" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="31AA4CB7"
w14:paraId="6A4990C4">
  - <w:pPr>
    <w:spacing w:after="5"/>
    <w:ind w:left="29"/>
    <w:jc w:val="both"/>
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
      <w:color w:val="538135" w:themeShade="BF" w:themeColor="accent6"/>
      <w:sz w:val="15"/>
      <w:szCs w:val="15"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
</w:p>
</w:tc>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="6866" w:type="dxa"/>
  </w:tcPr>
  - <w:p w:rsidP="00D47AF0" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w14:textId="60DD7580"
w14:paraId="2343A1C5">
    - <w:pPr>
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      <w:ind w:left="216"/>
      <w:jc w:val="both"/>
      - <w:rPr>
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w:ascii="Leelawadee UI Semilight"/>
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        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
    </w:pPr>
  </w:p>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rStyle w:val="SubtleReference"/>
    </w:rPr>
  </w:r>

```

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        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:b/>
        <w:bCs/>
        <w:color w:val="auto"/>
        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Background</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00645F59">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
    <w:b/>
    <w:bCs/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">: </w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
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    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">Consumers are more aware of the role of healthy diet </w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D47AF0">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>i</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>n preventing food</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D47AF0">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>.</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
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      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>related diseases (Cancer, cardiovascular diseases, diabetes</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00F91A61">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">,</w:t>
</w:r>

```

```

- <w:r w:rsidRPr="00865914" w:rsidR="00F91A61">
  - <w:rPr>
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      w:ascii="Leelawadee UI Semilight"/>
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    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>etc.</w:t>
</w:r>
- <w:r w:rsidRPr="00865914" w:rsidR="00D73426">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">).</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">Consequently, they are looking for products with beneficial nutritional attributes</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D47AF0">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
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    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>that</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">encourage</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D47AF0">
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      w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">the</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
      w:ascii="Leelawadee UI Semilight"/>
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    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>food industry to develop functional foods</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
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    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">.</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>

```



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        <w:rStyle w:val="SubtleReference"/>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
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        <w:bCs/>
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        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Aims</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
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    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:b/>
    <w:bCs/>
    <w:color w:val="auto"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>:</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00E44849">
  - <w:rPr>
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    <w:b/>
    <w:bCs/>
    <w:color w:val="auto"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
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    <w:bCs/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>In this study</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D47AF0">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:bCs/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>,</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:bCs/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"> we aimed at using a natural bioprocess to improve durum wheat "</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:bCs/>
    <w:i/>
    <w:iCs/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>

```

```

        </w:rPr>
        <w:t>Triticum durum</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
                Semilight"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve">" nutritional properties for its further use as </w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="00D47AF0">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
                Semilight"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve">a </w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
                Semilight"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t>functional ingredient</w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="000143DF">
        - <w:rPr>
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                Semilight" w:eastAsia="Calibri" w:lang="en-US"/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t></w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="000143DF">
        - <w:rPr>
            <w:rFonts w:cs="Times New Roman" w:hAnsi="Tw Cen MT" w:eastAsia="Calibri" w:ascii="Tw Cen MT"/>
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            <w:bCs/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="000143DF">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
            <w:b/>
            <w:bCs/>
            <w:smallCaps/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve">Materials </w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
            <w:b/>
            <w:bCs/>
            <w:smallCaps/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
        <w:t xml:space="preserve">and </w:t>
    </w:r>
    - <w:r w:rsidRPr="00961174" w:rsidR="001F2786">
        - <w:rPr>
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```

```

        <w:b/>
        <w:bCs/>
        <w:smallCaps/>
        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Methods</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
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      Semilight"/>
    <w:b/>
    <w:bCs/>
    <w:color w:val="auto"/>
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    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00E41E1C">
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      Semilight"/>
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    <w:bCs/>
    <w:color w:val="auto"/>
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Six durum wheat cultivars were tested: four high yielding and two landrace ones. Seeds were germinated for 48 hours
    at 22°C. Nutritional properties were evaluated through proximate composition and bioactive compounds (carotenoids,
    total phenol, vitamin C and tocopherols) levels</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
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    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00E44849">
  - <w:rPr>
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    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rStyle w:val="SubtleReference"/>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    <w:b/>
    <w:bCs/>
    <w:color w:val="auto"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Results</w:t>
</w:r>

```

```

- <w:r w:rsidRPr="00961174" w:rsidR="0014192C">
  - <w:rPr>
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    <w:bCs/>
    <w:color w:val="auto"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="0014192C">
  - <w:rPr>
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    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
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  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
  - <w:rPr>
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    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Biochemical characterization of sprouted seeds showed significant modifications with a decrease in ash, starch contents and an increase in reducing sugars, and in proteins. Improvements in bioactive compounds were also observed in sprouted seeds. Vitamin C, tocopherols, total phenols, carotenoid pigments as well as antioxidant activity significantly increased after sprouting. Interestingly, durum wheat landrace cultivars showed the best performances</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
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    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
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</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rStyle w:val="SubtleReference"/>
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    <w:b/>
    <w:bCs/>
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    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Conclusions</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
  - <w:rPr>
    <w:rStyle w:val="SubtleReference"/>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:b/>
    <w:bCs/>
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    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t></w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="002F2A3D">
  - <w:rPr>
    <w:rStyle w:val="SubtleReference"/>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:b/>
    <w:bCs/>

```

```

        <w:color w:val="auto"/>
        <w:sz w:val="16"/>
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    </w:rPr>
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</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
    - <w:rPr>
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    </w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D47AF0">
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    </w:rPr>
    <w:t xml:space="preserve">the </w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00D73426">
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</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00863C9C">
    - <w:rPr>
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        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t></w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00E41E1C" w:rsidRDefault="00B87D58" w:rsidRPr="00961174" w:rsidR="00B87D58" w:14:textId="7C091338"
    w:14:parId="74A1D1FD">
    - <w:pPr>
        <w:spacing w:after="120"/>
        <w:ind w:left="216"/>
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri"
            w:ascii="Leelawadee UI Semilight"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
        <w:rStyle w:val="SubtleReference"/>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:b/>
        <w:bCs/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Keywords</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
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            Semilight"/>
        <w:b/>
        <w:bCs/>

```

```

        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="16"/>
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    <w:t>.</w:t>
  </w:r>
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    <w:t xml:space="preserve"></w:t>
  </w:r>
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        w:ascii="Leelawadee UI Semilight"/>
      <w:bCs/>
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      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Durum wheat, bioactive compounds, nutritional properties, sprouting, vitamins</w:t>
  </w:r>
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        w:ascii="Leelawadee UI Semilight"/>
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  </w:r>
</w:p>
</w:tc>
</w:tr>
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- <w:p w:rsidP="00B87D58" w:rsidRDefault="002F2A3D" w:rsidRPr="00961174" w:rsidR="00B87D58" w:14:textId="3642C6AD"
  w:14:paraId="50D31D64">
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      <w:numId w:val="2"/>
    </w:numPr>
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    <w:ind w:left="432"/>
    - <w:rPr>
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      <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
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      <w:headerReference r:id="rId23" w:type="first"/>
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      <w:pgMar w:left="1440" w:right="1238" w:gutter="0" w:footer="576" w:header="0" w:bottom="936" w:top="720"/>
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      <w:titlePg/>
      <w:docGrid w:linePitch="360"/>
    </w:sectPr>
    </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:noProof w:val="0"/>
      <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>I</w:t>
  </w:r>
  - <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
    - <w:rPr>
      <w:noProof w:val="0"/>

```

```

        <w:color w:val="1F4E79" w:themeShade="80" w:themeColor="accent5"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
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</w:r>
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  w14:paraId="4E1B7114">
  - <w:pPr>
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    <w:jc w:val="both"/>
  - <w:rPr>
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    <w:szCs w:val="18"/>
    <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
  </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri" w:ascii="Leelawadee UI
        Semilight"/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">According to the World Health Organization (WHO) global health estimate in 2015, cardiovascular diseases
      (31.3%), malignant neoplasms (15.5%) and diabetes (2.8%) caused almost half of the deaths all over the world. These rates increased
      considerably if compared to those of 2000. Lifestyle, new eating habits and lack of regular physical activity are among the reasons
      explaining this fact. Consequently, consumers are more and more looking for a </w:t>
    </w:r>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri" w:ascii="Leelawadee UI
        Semilight"/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>healthy lifestyle. Functional foods could satisfy these requirements. This trend started in the 1980s mainly in Japan with FOSHU
      (Foods for Specified Health Uses) [</w:t>
    </w:r>
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      - <w:rPr>
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          w:ascii="Leelawadee UI Semilight"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t>1</w:t>
    </w:r>
  </w:hyperlink>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>
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        Semilight"/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>] and since the market of functional foods spread all over the world [</w:t>
    </w:r>
  - <w:hyperlink w:anchor="_REFERENCES" w:history="1">
    - <w:r w:rsidRPr="00961174">
      - <w:rPr>
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          w:ascii="Leelawadee UI Semilight"/>
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        <w:szCs w:val="18"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
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    </w:r>
  </w:hyperlink>
  - <w:r w:rsidRPr="00961174">
    - <w:rPr>

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<w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:eastAsia="Calibri" w:ascii="Leelawadee UI Semilight"/>
 <w:sz w:val="18"/>
 <w:szCs w:val="18"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t xml:space="preserve">] and took its consideration in </w:t>

</w:r>

- <w:r w:rsidRPr="00961174" w:rsidR="00724BFB">
 - <w:rPr>
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 <w:sz w:val="18"/>
 <w:szCs w:val="18"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t xml:space="preserve">the </w:t>

</w:r>

- <w:r w:rsidRPr="00961174">
 - <w:rPr>
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 <w:sz w:val="18"/>
 <w:szCs w:val="18"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t>food industry. Functional foods could be defined as “Foods with physiological benefits that can reduce the risk of chronic diseases” [</w:t>

</w:r>

- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
 - <w:r w:rsidRPr="00961174">
 - <w:rPr>
 <w:rStyle w:val="Hyperlink"/>
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 <w:t>3</w:t>

</w:r>

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- <w:r w:rsidRPr="00961174">
 - <w:rPr>
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 <w:sz w:val="18"/>
 <w:szCs w:val="18"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t>]. Thus, they could be obtained by (</w:t>

</w:r>

<w:proofErr w:type="spellStart"/>

- <w:r w:rsidRPr="00961174">
 - <w:rPr>
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 <w:sz w:val="18"/>
 <w:szCs w:val="18"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t>i</w:t>

</w:r>

<w:proofErr w:type="spellEnd"/>

- <w:r w:rsidRPr="00961174">
 - <w:rPr>
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 <w:sz w:val="18"/>
 <w:szCs w:val="18"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t xml:space="preserve">) adding </w:t>

</w:r>

- <w:r w:rsidRPr="00961174">
 - <w:rPr>
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 - <w:rPr>
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  <w:t>, etc.</w:t>
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  </w:rPr>

```

<w:t>] and the second in terms of consumption. Tunisians are among the highest consumers of wheat worldwide (148.7 kg/person/year). Considering specifically durum wheat consumption, they are in the second position (12.4 kg/person/year) just after Italians [</w:t>

</w:r>

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</w:r>

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    </w:rPr>
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    <w:t>Daaloul-Bouacha</w:t>
</w:r>
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```

```

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  <w:t xml:space="preserve">Sprouting </w:t>
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    <w:szCs w:val="18"/>
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  </w:rPr>
  <w:t>is utilized</w:t>
</w:r>
- <w:r:rsidRPr="00A45CC6">
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  <w:t xml:space="preserve">mainly in Eastern countries </w:t>
</w:r>
- <w:r:rsidRPr="00A45CC6" w:rsidR="00E70C65">
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    <w:szCs w:val="18"/>
    <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
  </w:rPr>
  <w:t xml:space="preserve">such as </w:t>
</w:r>
- <w:r:rsidRPr="00A45CC6">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
    <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
  </w:rPr>
  <w:t>China</w:t>
</w:r>
- <w:r:rsidRPr="00A45CC6" w:rsidR="00E70C65">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
    <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
  </w:rPr>

```

```

        <w:t xml:space="preserve"> and</w:t>
    </w:r>
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    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
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        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t xml:space="preserve"> Japan </w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>[</w:t>
</w:r>
- <w:hyperlink w:anchor=" REFERENCES" w:history="1">
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        - <w:rPr>
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            <w:szCs w:val="18"/>
            <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
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        <w:t>10</w:t>
    </w:r>
</w:hyperlink>
- <w:r w:rsidRPr="00961174">
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        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>]. "Sprouts" are obtained from the germination of seeds and their development in water, collected before the development of leaves.
    The final product still contains the seed [</w:t>
</w:r>
- <w:hyperlink w:anchor=" REFERENCES" w:history="1">
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            <w:szCs w:val="18"/>
            <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
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        <w:t>11</w:t>
    </w:r>
</w:hyperlink>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
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        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>].</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="000253A8">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
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    <w:t xml:space="preserve"> </w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
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        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>

```

```

        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
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</w:r>
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        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>for</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
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        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t xml:space="preserve"> its effect on improving </w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00724BFB">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t xml:space="preserve">the </w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>nutritional properties of different kind</w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00724BFB">
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    </w:rPr>
    <w:t>s</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t xml:space="preserve"> of seeds such as pulses and cereal grains [</w:t>
</w:r>
- <w:hyperlink w:anchor=" REFERENCES" w:history="1">
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        <w:t>12</w:t>
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- <w:r w:rsidRPr="00961174">
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>

```



```

        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>]. Numerous studies investigated the effect of sprouting on wheat (</w:t>
</w:r>
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    - <w:rPr>
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        <w:i/>
        <w:iCs/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t xml:space="preserve">Triticum </w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
        <w:i/>
        <w:iCs/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>aestivum</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
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        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>) nutritional properties and bioactive compounds [</w:t>
</w:r>
- <w:hyperlink w:anchor=" REFERENCES" w:history="1">
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        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>]. Therefore, it would be interesting to develop a cereal functional ingredient from durum wheat, naturally fortified with bioactive
    molecules, by the use of sprouting bioprocess.</w:t>
</w:r>
</w:p>
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
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```

```

        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
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    durum wheat </w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
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        <w:iCs/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t>(Triticum durum</w:t>
</w:r>
- <w:r w:rsidRPr="00961174">
    - <w:rPr>
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
    </w:rPr>
    <w:t xml:space="preserve">). The </w:t>
</w:r>
- <w:r w:rsidRPr="00961174" w:rsidR="00724BFB">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
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</w:r>
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    </w:rPr>
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    cultivars for their further use in </w:t>
</w:r>
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</w:r>
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        <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
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</w:r>
</w:p>
- <w:p w:rsidP="0027371C" w:rsidRDefault="00B46B66" w:rsidRPr="00961174" w:rsidR="0027371C" w:l4:textId="77777777"
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        <w:numId w:val="2"/>
    </w:numPr>
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    - <w:rPr>

```

```

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        </w:pPr>
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            </w:rPr>
            <w:t>MATERI</w:t>
        </w:r>
        - <w:r w:rsidRPr="00961174" w:rsidR="00E5213D">
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            </w:rPr>
            <w:t>A</w:t>
        </w:r>
        - <w:r w:rsidRPr="00961174">
            - <w:rPr>
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            </w:rPr>
            <w:t xml:space="preserve">L </w:t>
        </w:r>
        - <w:r w:rsidRPr="00961174" w:rsidR="00B87D58">
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            </w:rPr>
            <w:t xml:space="preserve">AND METHODS </w:t>
        </w:r>
    </w:p>
    - <w:p w:rsidP="0027371C" w:rsidRDefault="0027371C" w:rsidRPr="00961174" w:rsidR="0027371C" w14:textId="34B79204"
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                <w:bCs/>
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                <w:lang w:eastAsia="fr-FR"/>
            </w:rPr>
        </w:pPr>
        - <w:r w:rsidRPr="00961174">
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        </w:r>
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```

```

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        <w:szCs w:val="18"/>
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</w:r>
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```

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 <w:t xml:space="preserve"> and </w:t>
</w:r>
 Chili
 .
</w:p>
 Samples (Harvested in 2015) were kindly provided by the National Institute of Cereal crops (INGC Bou Salem, Tunisia) and the National Gene Bank of Tunisia (BNG, Tunisia). Samples were stored at 4°C on closed bags until use
 .
 Method
 s
 In vitro sprouting
 Seeds (50g) were initially sterilized with 1% (V/V) hypochlorite sodium solution for 30 minutes, then rinsed three times with distilled water
 -
 soaked again in distilled water and finally spread into plates with three layers of “Blotting paper”. Samples were watered after 24 hours
 .
 Sprouting was conducted at a temperature of 22.5 ± 0.5°C for 48 hours
 .
 After sprouting samples were immediately subjected to lyophilization (Christ freeze dryer alpha 1-4 LCS, Germany) then milled (Retsch Grindomix GM 200, Germany) and stored at -18°C until analysis.
 Proximate composition
 Ash content was determined according to AACC methods [18]
] (AACC 08-01.01), crude fat (AACC 30-10.01) and protein content (AACC 46-30.01), a value of 5.7 was used as a factor of conversion to estimate protein content. Reducing sugar measurement was carried out through the Fehling method, and starch measurement, through a hydrolytic method and titration with Na
 2
 S
 2
 O
 3
 .
 Enzyme activity determination
 Amylolytic and α -amylase activities were measured as suggested by Kalita et al.
 [19]
]. One unit of enzyme activity (U) was defined as the amount of micro-moles of maltose produced per minute under the assay conditions and calculated using formula (1)
 :
 Activity (U/ml)
 (
 mg/ ml in terms of maltose
 *1000
 Molecular weight of maltose*Time
 (
 min
)
)
 =>*2
 ..(1)
 Vitamins and Bioactive molecules
 Tocopherols and Vitamin C contents were assessed by the HPLC procedure as described by Molnar et al.
 [

20

]: Tocopherols were separated on Nucleosil-100 (5 mm, 250 4.6 mm) column with isocratic elution (99.6:0.4 n-hexane-ethanol) and detected using a Shimadzu RF-535 Fluorescence HPLC Detector (excitation wavelength: 295 nm and emission wavelength: 320 nm)

Total carotenoid pigments were determined by extraction with butanol as described by Pasqualone et al.

[21].

Total phenol content was assessed using the Folin-Ciocalteu method [

22

]. Gallic acid was used as standard (0-1 mg/ml; r

2

=0.987).

Antioxidant activity: DPPH-radical scavenging activity (DPPH RSA

DPPH (1,1-diphenyl-2-picrylhydrazyl) radical scavenging activity (DPPH RSA) was measured using the method proposed by

Aprodu

&

Banu [

22

] with

a

slight modification during the extraction procedure for antioxidant activity measurement

The extraction was performed

with 80% (v/v) aqueous methanol solution, for 2 h at 37°C. Samples were afterward centrifuged at 6,000 RPM for 30min and

t

he

supernatant was used for the determination of antioxidant capacity

Antioxidant activity was calculated according to the formula

(2)

:

%DPPAH RSA= (1- A

Sample/t=30

/A

Control/t=

0

) *

100

.... (2)

Statistical analysis

Statistical analysis was carried out using the Minitab software (Minitab 17, USA). All experiments were carried out in triplicate and the average values were reported together with standard deviations. Analysis of variance (ANOVA) was performed using the Fisher test. Significance was defined at $p < 0.05$

RESULTS

AND DISCUSSION

Effect of sprouting on proximate composition and enzyme activities

In this study, besides the effect of germination, an interest was accorded to the genetic background (landrace and high yielding cultivars). As shown in Table 1 sprouting led to modifications in wheat seeds composition

Ash content was significantly different from one cultivar to another

and

ranged between 1.65 and 2.06 % before sprouting. Sprouting contributed to a decrease in ash content. Th

is

reduction

was only significant for

Razzek

,

Maali

(high yielding varieties) and

Chili

(durum wheat landrace). A previous study of Singh

et al.

[

23

] reported a decrease in ash content for sprouted sorghum while other

results showed

that three days germination could not affect

the

ash content of wheat [

24

]. This difference could be explained by a change in some sprouting parameters (mainly soaking time and temperature). An increase in ash content of high-amylose wheat after 48 hours of sprouting was observed [

25

]. Thus, ash content evolution after sprouting could be probably related to the genetic background of the seeds used [26

]

.

The amounts of proteins were significantly different among varieties. Cultivars could be divided into two main groups: The first one with high protein content (over 17%), represented by the landrace genotypes

Chili

and

Chili

and the second with lower protein content. Tunisian landrace durum wheat

is

recognized for

its

better quantitative quality parameters compared to the high yielding ones

[

7

]. Our data clearly showed that sprouting increased protein content. This increase was probably due to proteolytic enzyme activity. In fact, protein hydrolysis depends on sprouting conditions (temperature, duration)[

27

]. The significant increase observed in our study was in agreement with previous results [

24,25

]. The effect of different sprouting conditions on alpha amylase activity, functional properties of wheat flour and on shelf-life of bread supplemented with sprouted wheat was evaluated[

28

]. Results showed that after two days of sprouting, with SDS-Page, a hydrolysis in protein was observed. The author reported that an increase in sprouting time leads to an increase low molecular weight protein and a decrease in high molecular weight ones [

28

]. Similarly, another study dealing with effects of enzyme activities during steeping and sprouting on the solubility and composition of proteins, their bioactivity and relationship with the bread making quality of wheat flour, showed a decrease in peptides with high molecular weight and an increase in low molecular weight in sprouted wheat flour [

29

]. In this study, five days sprouting led to changes in proteins proportions

and solubility rather than their amounts. According to the

same

authors, the release of low molecular weight proteins could present a high nutritional interest

due

to the bioactive role of these peptides (anti-bacterial, anti-

carcinogenic, anti-

thrombocytic

or stimulating biological activity) [

29

].

Lipid content was significantly different from one cultivar to another. The highest average was noticed for

Khlar

(2.28 ± 0.41) and the lowest for the landrace

Chili

(1.34 ± 0.11) before sprouting. In fact, cultivars showed different behaviors after sprouting. The two varieties

of

Karim

and

Chili

showed a significant decrease ($p<0.05$) in lipid content while a significant increase ($p<0.05$) was observed with landrace genotype

Chili

. However, sprouting did not affect the lipid content for the high yielding

varieties

Khlar

,

Razzek

,

and

Maali

. It has been reported that germination for three days did not

affect

wheat lipid content [

24

]. Nevertheless, some qualitative results could suggest that sprouting would

modify

the

fatty acid

composition of soft wheat (

Triticum

aestivum

)[

16

]. The fatty acid composition after sprouting evolved differently,

Table

SEQ Table * ARABIC

1

:

Effect of sprouting on wheat seeds composition (n=3)

Cultivar
 Ash (%)
 (g.100 g
 -1
 dm)
 Lipid (%)
 (g.100 g
 -1
 dm)
 Protein (%)
 (g.100 g
 -1
 dm)
 Starch (%)
 (g.100 g
 -1
 dm)
 Reducing sugar
 (mg.g-
 1
 dm)
 Khiar
 Raw
 Sprouted
 1.65±0.07
 FG
 1.55±0.04
 G
 2.28±0.41
 A
 2.20±0.05
 A
 14.04±0.04
 GH
 14.22±0.20
 FG
 45.46 ±0.81
 E
 35.37±0.91
 F
 35.04±1.55
 C
 57.09±1.36
 B
 Razzek
 Raw
 Sprouted
 1.96±0.07
 BC
 1.79±0.03
 DE
 1.76±0.03
 BC
 1.74±0.13
 BC
 13.88±0.11
 HI
 14.55±0.20
 E
 49.34±0.46
 D
 31.36±0.72
 G
 15.71±0.13
 F
 60.41±0.73
 A
 Maali
 Raw
 Sprouted
 2.00±0.05
 AB
 1.81±0.04
 DE
 1.43±0.07
 DEF
 1.61±0.04
 BCD
 14.29±0.16
 F
 14.39±0.09
 EF

48.60±0.36
 D
 36.03±0.70
 F
 26.13±1.18
 E
 56.85±0.84
 B
 Karim
 Raw
 Sprouted
 1.79±0.05
 DE
 1.72±0.11
 EF
 1.58±0.11
 CDE
 1.32±0.07
 F
 13.70±0.05
 I
 14.28±0.08
 F
 64.11±0.63
 A
 28.98±0.68
 H
 32.52±1.29
 D
 55.47±1.02
 B
 Chili
 Raw
 Sprouted
 2.06±0.06
 A
 1.87±0.06
 CD
 1.59±0.09
 CD
 1.33±0.03
 F
 17.91±0.11
 B
 18.60±0.03
 A
 54.62±0.95
 B
 31.11±0.46
 G
 33.96±1.38
 CD
 60.01±1.84
 A
 Chili
 Raw
 Sprouted
 1.85±0.07
 D
 1.84±0.04
 D
 1.34±0.11
 EF
 1.84±0.09
 B
 17.04±0.05
 D
 17.35±0.03
 C
 52.93±0.26
 C
 29.48±0.37
 H
 27.57±0.32
 E
 61.42±2.22
 A

Means in
 the
 same column that do not share
 the
 same letters are significantly differ

ent, according to Fisher's test,

($p < 0.05$).

according to the tested varieties, highlighting the role of genetic properties [

16

]. Consequently, the evolution of endogenous lipids after sprouting may be associated

to

the

selectivity of lipases [

30

]. Rose

&

Pike [

31

] measured lipase activity in wheat and wheat bran and observed that the lipolytic activity was linked to the pool of free fatty acids in the stored wheat tested. They also highlighted that optimal condition

s

for lipase should be specified to the variety tested.

Table

SEQ Table * ARABIC

2

:

Effect of sprouting on enzyme activity (n=3)

Cultivar

Amylolytic activity

α

-amylase activity

Khlar

Raw

Sprouted

4.88±0.12

F

6.48±0.36

C

1.79±0.15

I

7.13±0.30

E

Razzek

Raw

Sprouted

5.33±0.13

E

6.53±0.23

C

2.08±0.05

H

11.86±0.09

A

Maali

Raw

Sprouted

4.54±0.22

G

7.54±0.14

A

2.38±0.07

G

9.57±0.24

C

Karim

Raw

Sprouted

4.56±0.04

G

5.85±0.07

D

2.28±0.08

GH

8.40±0.27

D

Chili

Raw

Sprouted

4.82±0.22

FG

7.36±0.19

A

2.14±0.04

GH

10.24±0.10

B

Chili
Raw
Sprouted
4.83±0.03
FG
6.98±0.19
B
3.30±0.10
F
8.52±0.27
D

Means in
the
same column that do not share
the

same letters are significantly different, according to Fisher's test ($p < 0.05$).

Starch is an energy storage molecule in plants. Its levels ranged between 45.46 and 64.11% for raw seeds and 28.98 to 36.03% for sprouted ones. This significant decrease in starch content was followed by a significant increase ($p < 0.05$) in reducing sugars (Table 1).

A
According to cultivars

,
t
his increase ranged between 2 and 4 folds was related to
the
amylolytic enzyme's action [

32

]. In fact, sprouting is a physiological event where seeds move from a dormant state to an active one. Therefore, this event requires energy for the new embryo. Degradation of macromolecules under enzymatic activity is a way to provide the embryo with necessary nutrients [

15

]. In our
study

,
results of amylolytic
enzymes
, as summarized in
Table 2

,
are confirming the results of starch and reducing sugar measurements. Although we observed differences among cultivars in enzymatic activity in raw seeds, the trend was the same after germination with a significant increase ($p < 0.05$). In terms of enzymatic activity, our results are in line with previous dealing with malted rice [

19

].
The
first step of sprouting consists
of
water absorption and tissue
rehydration
or "Imbibition".
This procedure
stimulates
gibellirin
hormone synthesis,
which then stimulates hydrolytic enzymes activities [

33

]. Enzymatic activity depends not only on genotypes and environmental area but also on sprouting conditions (Temperature, duration) [

19

].
Vitamins and bioactive molecules

Results of vitamins C and E measurement are summarized in Table 3. Vitamin C is a water-soluble vitamin that is naturally present in some foods. Humans are unable to synthesize vitamin C endogenously.

Therefore

, it is an essential dietary component. Wheat is not commonly known as a source for vitamin C. In our study

,
this vitamin has been detected only in the cultivar
Khia

at a low level (Table 3). Interestingly, sprouting increased significantly ($p < 0.05$) vitamin C content of durum wheat seeds. Averages ranged between 15.10 $\mu\text{g/g dm}$ (durum wheat landrace

Chil

i

)

and 43.9 $\mu\text{g/g dm}$ (for the high yielding variety

Khia

r

)

. Previous works reported that vitamin C content increases gradually with sprouting time. Optimal conditions to obtain the maximal content of vitamin C differ among authors from 4 up to 7 days [

10,34

]. Biosynthesis of vitamin C includes several enzymatic reactions to transform D-glucose to L-ascorbic acid [

35

]. Consequently, carbohydrates level (glucose, sucrose) plays a key role in this process. Sprouting increased significantly reducing sugars amounts (Table 1) which probably contributed

to

increasing vitamin C levels as a strong

Cultivar
Vitamin C
($\mu\text{g/g dm}$)
 α
-tocopherol
(
 μ
g·g
-1
dm)
 β -tocopherol
(
 μ
g·g
-1
dm)
 α
-tocotrienol
(
 μ
g·g
-1
dm)
 β -tocotrienol (
 μ
g·g
-1
dm)
Khlar
Raw
Sprouted
5.35 $\pm$ 0.04
F
43.9 $\pm$ 1.50
A
5.62 $\pm$ 0.28
DE
6.33 $\pm$ 0.07
AB
2.78 $\pm$ 0.09
CD
3.24 $\pm$ 0.09
A
3.32 $\pm$ 0.34
CDE
3.72 $\pm$ 0.14
AB
17.94 $\pm$ 0.61
BC
16.59 $\pm$ 0.28
D
Razzek
Raw
Sprouted
ND
19.48 $\pm$ 0.50
C
5.56 $\pm$ 0.19
DEF
6.59 $\pm$ 0.20
A
2.71 $\pm$ 0.05
DE
3.29 $\pm$ 0.15
A
3.17 $\pm$ 0.15
DE
3.94 $\pm$ 0.17
A
17.26 $\pm$ 0.48
CD
16.87 $\pm$ 0.55
D
Maali
Raw
Sprouted
ND

16.42±0.52
 D
 5.51±0.13
 EF
 6.05±0.21
 BC
 2.90±0.07
 BC
 2.98±0.04
 B
 3.10±0.04
 DE
 3.73±0.13
 AB
 17.36±0.45
 BCD
 16.60±0.46
 D
 Karim
 Raw
 Sprouted
 ND
 23.92±0.55
 B
 5.88±0.20
 CD
 6.13±0.24
 BC
 2.87±0.10
 BCD
 3.00±0.15
 B
 3.59±0.16
 BC
 3.78±0.21
 AB
 19.17±0.69
 A
 15.46±0.67
 E
 Chili
 Raw
 Sprouted
 ND
 15.10±0.27
 E
 5.23±0.13
 F
 6.05±0.14
 BC
 2.55±0.10
 EF
 2.92±0.10
 BC
 2.53±0.13
 F
 3.04±0.03
 E
 12.94±0.36
 F
 11.87±0.30
 G
 Chili
 Raw
 Sprouted
 ND
 24.62±1.17
 B
 6.09±0.22
 BC
 6.20±0.28
 BC
 2.49±0.10
 F
 2.52±0.07
 F
 3.39±0.20
 CD
 3.61±0.20
 BC
 18.21±0.58
 B

15.67±0.64

E

Table

SEQ Table * ARABIC

3

:

Effect of sprouting on vitamin C and tocopherols contents (n=3)

Means in

the

same column that do not share

the

same letters are significantly different, according to Fisher's test ($p<0.05$).

ND: Not Detected

.

positive correlation was observed in our study (Pearson correlation $r=0.81$, $p=0.00$)

.

Vitamin E is a liposoluble vitamin including a group of eight organic compounds (four tocopherols and four tocotrienols) [

36

]. Results of vitamin E measurement (Table 3) showed that amounts of

α

-tocopherol were significantly different from one cultivar to another before and after germination.

Sprouting led to an increase in

α

-tocopherol amount, ranging between 12.63% and 18.53%. A same trend was also observed for β -tocopherol. An increase of 50% in

α

-tocopherol after 9 days of soft wheat sprouting was previously reported [

16

] while another study showed an increase in vitamin E of 25% after 4 days of germination [

37

]. Moreover, Yang

et al.

[

34

]

reported

that the maximum of vitamin E was obtained after sprouting for

eight

days. Thus, the increase in tocopherol would probably depend on germination conditions used as well as

the

genetic background of the tested seeds. The biosynthesis pathway of vitamin E has not been reported previously [

38

].

In our study, 48 hours of germination also increased

α

-tocotrienol levels. In

fact,

sprouting increased significantly ($p<0.05$)

α

-tocopherol, β -tocopherol

,

and

α

-tocotrienol, whereas a significant decrease in β -tocotrienol was observed after sprouting. Luckily,

α

-tocopherol, β -tocopherol

,

and

α

-tocotrienol

display

higher biological activity than β -tocotrienol [

36

].

Total phenol content ranged between 15.9 and 29.44 mg GAE.g

-1

dm for raw seeds (Table 4). Averages were significantly different among cultivars. Durum wheat landrace showed the highest amounts.

Dordevic

et al.

[

39

] reported an average of 16.2 mg GAE.g

-1

dm for total phenol content for wheat seeds. Bioactive molecules amount, such as polyphenols are related geographic zones where plants were grown, genotypes and the

procedure used for extraction and quantification [

26

]. Thus, results may differ from one study to another. In our study, all cultivars followed the same trend after sprouting: a significant increase ($p<0.05$) was observed in total phenol content. The highest averages were observed for landrace genotypes

Chili

and

Chili

. The differences observed between landrace and high yielding durum wheat varieties could be related to the genetic differences as well as the agronomic practice and geographical origin. Glucose is the precursor for the phenolic compounds' synthesis [

38

]. As sprouting is marked by the

degradation of macromolecules like starch, amounts of simple sugars may increase.

Hence

, such increase in total phenol content could be expected. According to our results

, the increase in total phenol content was positively correlated with reducing sugars content (Pearson correlation $r=0.80$; $p=0.00$). Moreover, during germination

, there is an increase in phenylalanine ammonia-lyase (PAL), a key enzyme for the accumulation of phenolic compounds, with a significant positive correlation between PAL activity and total phenols content [

14

].

Carotenoids are organic bioactive molecules produced by plants. They may play a role of provitamin A and contribute to

the antioxidant properties of foods. The high yielding variety

Khlar

and the landrace

Chili

and

Chili

showed the highest total carotenoid pigments (19.55; 18.53; 17.72 mg.kg

-1

dm respectively). Sprouting increased significantly ($p<0.05$) carotenoid pigments content for all tested cultivars. These contents are higher than those reported for

remilled

semolina (5.5

mg.kg

-1

dm) [

21

]. This difference might be related to different genetic background

s

and environmental conditions of wheat seeds. In the same study, some by-products like

debranning

fractions also showed higher values (9.7

mg.kg

-1

dm), suggesting that whole grain flour would be also characterized by higher amounts. Our study showed

that durum wheat sprouting increases vitamins C & E as well as carotenoid pigments contents. These changes may improve the

antioxidant properties of sprouted seeds.

Table

SEQ Table * ARABIC

4

:

Effect of sprouting on bioactive molecules and antioxidant properties

Cultivar

Total phenol content

(mg GAE.g

-1

dm)

Carotenoid (mg

β

-carotene.kg

-1

dm)

DPPH RSA (%)

Khlar

Raw

Sprouted

16.56 $\pm$ 0.34

GH

28.72 $\pm$ 0.89

D

19.55 $\pm$ 0.41

E

24.37 $\pm$ 0.31

A

29.19 $\pm$ 0.79

G

37.80 $\pm$ 0.62

D

Razzek

Raw

Sprouted

15.9 $\pm$ 0.38

H

26.40 $\pm$ 0.51

E
 16.88±0.32
 H
 21.89±0.28
 C
 32.66±0.60
 EF
 43.93±0.67
 B
 Maali
 Raw
 Sprouted
 17.04±0.27
 G
 39.47±0.68
 B
 16.85±0.36
 H
 22.62±0.59
 B
 31.77±0.89
 F
 41.95±0.69
 C
 Karim
 Raw
 Sprouted
 15.85±0.97
 H
 35.14±0.16
 C
 15.31±0.29
 I
 20.28±0.32
 D
 18.86±0.35
 H
 33.46±0.41
 E
 Chili
 Raw
 Sprouted
 19.93±0.50
 F
 43.59±0.34
 A
 18.53±0.24
 F
 21.99±0.43
 C
 32.51±0.82
 EF
 42.78±0.40
 C
 Chili
 Raw
 Sprouted
 29.44±0.08
 D
 42.97±0.48
 A
 17.72±0.32
 G
 20.73±0.25
 D
 36.84±0.31
 D
 53.19±0.63
 A

Means in the same column that do not share the

same letters are significantly different, according to Fisher's test ($p < 0.05$).

GAE: Gallic Acid Equivalent, dm: dry matter bases, DPPH RSA: (1,1-diphenyl-2-picrylhydrazyl) radical scavenging activity.

For the DPPH RSA, the lowest value for raw seeds was obtained for

Karim

genotype with 18.86% while the highest value was observed for

Chili

(36.87%). An average of 12.7% was previously reported for

remilled

semolina[

21

]. In our study, we used whole grain flour thus our results could be higher: some metabolites and bioactive molecules are concentrated in the outer parts and germ of seeds [

40

]. Sprouting also induced a significant increase ($p < 0.05$) in antioxidant properties for all cultivars tested. The highest averages were for landrace cultivars probably because of their highest total phenols content. In fact, our results showed a positive correlation between DPPH Radical Scavenging Activity and total phenol content (Pearson correlation coefficient $r = 0.78$; $p = 0.00$). The improvement in antioxidant properties could be also explained by the enhancement of bioactive compounds as they were positively correlated with DPPH RSA according to our results (Carotenoid: $r = 0.66$, $p = 0.00$; Vitamin C: $r = 0.54$,

 α

-tocopherol: $r = 0.49$, $p = 0.00$).

On

the other hand, it is

fundamental

to remind that plants

possess

some

antioxidant enzymes such as peroxidase (POD), catalase (CAT), glutathione peroxidase (GPX), superoxide dismutase (SOD)

.

Germination may activate these enzymes [

41

]. For example, a significant increase in catalase, peroxidase

,

and ascorbate peroxidase activities in sprouted soft wheat w

as

observed [

14

].

In conclusion, our data proved a nutritional improvement of durum wheat quality after sprouting. This bioprocess could be suggested as an efficient, natural and low-cost method for supplying vitamins and bioactive molecules.

CONCLUSION

Sprouting of Tunisian landrace and high yielding durum wheat (

Triticum durum

) cultivars induced degradation of some macromolecules such as starch and proteins suggesting an improvement in digestibility. The increase in vitamins, total phenols

,

and carotenoid pigments led to an improvement

in

antioxidant properties. Interestingly, among Tunisian cultivars

,

durum wheat landrace genotypes showed better performance than the high yielding. Altogether, our study

highlighted the contribution of

sprouting

to

improving

the

nutritional properties of durum wheat seeds. Thus, it could be suggested as a green tool for the development of functional ingredient

s

and cereal products with added nutritional value for

the

food industry

.

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Author Contribution:

S.J. conceived and designed the study, and undertook the literature research. All authors participated in the experiment and data acquisition. S.J. and H.D. performed the data analysis. S.J. carried out the statistical analysis, prepared, reviewed and drafted the manuscript. All authors approved the final version before submission. All authors have read and agreed to the published version of the manuscript.

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REFERENCES

- Delgado-Andrade C. Editorial overview: Functional foods and nutrition.
Curr
.
Opin
.
Food Sci
.
2017;
14: vii
-viii.
doi:10.1016/j.cofs.2017.02.008
- Martirosyan DM, Singh J. A new definition of functional food by FFC: what makes a new definition unique?
Functional Foods in Health and Disease
.
2015;5(6):209-223-223.
doi:10.31989/ffhd.v5i6.183
- Austria JA,
Aliani
M, Malcolmson LJ,
Dibrov
E
.
Blackwood DP
.
Maddaford
TG, Guzman R, Pierce GN
.
Daily choices of functional foods supplemented with milled flaxseed by a patient population over one year.
J
.
Funct
.
Foods
.
2016;26:772-80.
doi:10.1016/j.jff.2016.08.045
- Poulsen J.
Danish Consumers' Attitudes towards Functional Foods
.
University of Aarhus, Aarhus School of Business, The MAPP Centre; 1999.
<https://ideas.repec.org/p/hhb/aarmap/0062.html>
- FAO (Food and Agricultural Organiz
ation) 2019. Online statistical
data
base FAOSTAT:
<http://www.fao.org/faostat/en/#data/QC>
accessed on 05/12/2019.
- Ammar K,
Gharbi
M,
Deghaies
M. Wheat in Tunisia. In: ANGUS W, BONJEAN A, VAN GINKEL M, eds.
The World Wheat Book: A History of Wheat Breeding
.
Vol 2. Lavoisier; 2011:443-465.
- Daaloul
Bouacha
O,
Nouaigui
S,
Rezgui
S. Effects of N and K fertilizers on durum wheat quality in different environments.
J
.
Cereal Sci
.
2014;59(1):9-14.
doi:10.1016/j.jcs.2013.11.003
- De
Santis
MA, Giuliani MM,
Giuzio
L,
De Vita P, Lovegrove A,
Shewry
PR, Flagella Z
.
Differences in gluten protein composition between old and modern durum wheat genotypes in relation to 20
th
century breeding in Italy.
Eur
.
J
.
Agron
.
2017;87:19-29.
doi:10.1016/j.eja.2017.04.003
- De

Santis
MA,
Kosik
O, Passmore D, Flagella Z,
Shewry
PR, Lovegrove A. Comparison of the dietary
fibre
composition of old and modern durum wheat (*Triticum
turgidum*
spp. durum) genotypes.
Food Chem
. 2018;244:304-10.
doi:10.1016/j.foodchem.2017.09.143
Plaza L, de
Ancos
B, Cano PM. Nutritional and health-related compounds in sprouts and seeds of soybean (*Glycine max*), wheat (*Triticum
aestivum*.L
) and alfalfa (*Medicago sativa*) treated by a new drying method.
Eur
. Food Res
. Technol
. 2003;216(2):138-44.
doi:10.1007/s00217-002-0640-9
European Food Safety Authority (EFSA). Tracing seeds, in particular fenugreek (*Trigonella
foenum
-graecum*) seeds, in relation to the Shiga toxin-producing *E. coli* (STEC) O104:H4 2011 Outbreaks in Germany and France.
EFSA Supporting Publications
. 2011;8(7):176E.
doi:10.2903/sp.efsa.2011.EN-176
Donkor ON,
Stojanovska
L, Ginn P, Ashton J, Vasiljevic T. Germinated grains – Sources of bioactive compounds.
Food Chem
. 2012;135(3):950-9.
doi:10.1016/j.foodchem.2012.05.058
Alvarez-
Jubete
L,
Wijngaard
H, Arendt EK, Gallagher E. Polyphenol composition and in vitro antioxidant activity of amaranth, quinoa buckwheat and wheat as
affected by sprouting and baking.
Food Chem
. 2010;119(2):770-8.
doi:10.1016/j.foodchem.2009.07.032
Chen Z, Wang P, Weng Y, Ma Y, Gu Z, Yang R. Comparison of phenolic profiles, antioxidant capacity and relevant enzyme activity
of different Chinese wheat varieties during germination.
Food
Biosci
. 2017;20:159-
6
7.
doi:10.1016/j.fbio.2017.10.004
Mak
Y, Willows RD, Roberts TH, Wrigley CW, Sharp PJ, Copeland L. Germination of Wheat: A Functional Proteomics Analysis of the
Embryo.
Cereal Chem
. 2009;86(3):281-9.
doi:10.1094/CCHEM-86-3-0281
Ozturk I,
Sagdic
O,
Hayta
M,
Yetim
H. Alteration in
 α
-tocopherol, some minerals, and fatty acid contents of wheat through sprouting.
Chem
. Nat
. Compd
. 2012;47(6):876-9.
doi:10.1007/s10600-012-0092-9
Žilić
S,
Basić

Z,
 Hadži-Taškovi
 ć
 Šukalovi
 ć
 V,
 Maksimovi
 ć
 V,
 Jankovi
 ć
 M,
 Filipovi
 ć
 M. Can the sprouting process applied to wheat improve the contents of vitamins and phenolic compounds and antioxidant capacity of the flour?
 Int
 .
 J
 .
 Food Sci
 .
 Tech
 . 2014;49(4):1040-7.
 doi:10.1111/ijfs.12397
 AACC International. (2012). Approved methods of the American Association of Cereal Chemists International. Methods: 08-01.01 (Ash), 30-10.01 Crude fat, 46-30.01 (Protein), (11th ed.). St Paul, MN: American Association of Cereal Chemists.
 Kalita
 D,
 Sarma
 B, Srivastava B. Influence of germination conditions on malting potential of low and normal amylose paddy and changes in enzymatic activity and physico chemical properties.
 Food Chem
 . 2017;220:67-75.
 doi:10.1016/j.foodchem.2016.09.193
 Molnár
 H, Bata-
 Vidács
 I, Baka E,
 Cserhalmi
 Z,
 Ferenczi
 S,
 Tömösközi
 -Farkas
 R,
 Adányi
 N,
 Székács
 A
 . The effect of different decontamination methods on the microbial load, bioactive components, aroma and colour of spice paprika.
 Food Control
 . 2018;83:131-40.
 doi:10.1016/j.foodcont.2017.04.032
 Pasqualone
 A,
 Laddomada
 B,
 Centomani
 I,
 Paradiso VM,
 Minervini
 D,
 Caponio
 F,
 Summo
 C
 . Bread making aptitude of mixtures of re-milled semolina and selected durum wheat milling by-products.
 LWT
 . 2017;78:151-9.
 doi:10.1016/j.lwt.2016.12.032
 Aprodu
 I, Banu I. Antioxidant properties of wheat mill streams.
 J
 .
 Cereal Sci
 . 2012;56(2):189-95.
 doi:10.1016/j.jcs.2012.05.005

Singh A, Sharma S, Singh B. Effect of germination time and temperature on the functionality and protein solubility of sorghum flour.
J
. Cereal Sci
. 2017;76:131-9.
doi:10.1016/j.jcs.2017.06.003
Singkhornart
S,
Edou-ondo
S, Ryu G-H. Influence of germination and extrusion with CO₂ injection on physicochemical properties of wheat extrudates.
Food Chem
. 2014;143:122-31.
doi:10.1016/j.foodchem.2013.07.102
Van Hung P, Maeda T, Morita N. Improvement of nutritional composition and antioxidant capacity of high-amylose wheat during germination.
J
. Food Sci
. Tech
. 2015;52(10):6756-62.
doi:10.1007/s13197-015-1730-6
Lee J, Nam DS, Kong C. Variability in nutrient composition of cereal grains from different origins.
SpringerPlus
. 2016;5(1):419.
doi:10.1186/s40064-016-2046-3
Koehler P, Hartmann G,
Wieser
H,
Rychlik
M. Changes of Folate, Dietary Fiber, and Proteins in Wheat
As
Affected by Germination.
J
. Agric
. Food Chem
. 2007;55(12):4678-83.
doi:10.1021/jf0633037
Shafqat S. E
ffect of different sprouting conditions on alpha amylase activity, functional properties of wheat flour and on shelf-life of bread
supplemented with sprouted wheat
. May 2013.
<https://atrium.lib.uoguelph.ca/xmlui/handle/10214/6672>
. Žilić
S,
Janković
M,
Barać
M,
Pešić
M,
Konić
-Ristić
A,
Šukalović
VH-T. Effects of enzyme activities during steeping and sprouting on the solubility and composition of proteins, their bioactivity and relationship with the bread making quality of wheat flour.
Food
Funct
. 2016;7(10):4323-31.
doi:10.1039/C6FO01095D
Gerits
LR,
Pareyt
B,
Delcour
JA. Wheat starch swelling, gelatinization and pasting: Effects of enzymatic modification of wheat endogenous lipids.
LWT - Food Sci
. Technol

. 2015;63(1):361-6.
doi:10.1016/j.lwt.2015.02.035
Rose DJ, Pike OA. A simple method to measure lipase activity in wheat and wheat bran as an estimation of storage quality.
J
.
Am
.
Oil Chem' Soc
. 2006;83(5):415.
doi:10.1007/s11746-006-1220-0
Fardet
A. New hypotheses for the health-protective mechanisms of whole-grain cereals: what is beyond
fibre
?
Nutr
.
Res
.
Rev
. 2010;23(1):65-134.
doi:10.1017/S0954422410000041
Nelson K,
Stojanovska
L, Vasiljevic T, Mathai M. Germinated grains: a superior whole grain functional food?
Can
.
J
.
Physiol
.
Pharmacol
. 2013;91(6):429-41.
doi:10.1139/cjpp-2012-0351
Yang TKB B
Ooraikul
. F. Studies on germination conditions and antioxidant contents of wheat grain.
Int
.
J
.
Food Sci
.
Nutr
. 2001;52(4):319-30.
doi:10.1080/09637480120057567
Pérez-
Balibrea
S, Moreno DA, García-
Viguera
C. Improving the phytochemical composition of broccoli sprouts by elicitation.
Food Chem
. 2011;129(1):35-44.
doi:10.1016/j.foodchem.2011.03.049
Mène-Saffrané
L,
Pellaud
S. Current strategies for vitamin E biofortification of crops.
Curr
.
Opin
Biotech
. 2017;44:189-97.
doi:10.1016/j.copbio.2017.01.007
Finney PL. Effect of Germination on Cereal and Legume Nutrient Changes and Food or Feed Value: A Comprehensive Review. In:
Nozzolillo
C, Lea PJ,
Loewus
FA, eds.
Mobilization of Reserves in Germination
. Boston, MA: Springer US; 1983:229-305.
doi:10.1007/978-1-4684-1167-6_12
Gan R-Y, Lui W-Y, Wu K,
Chan CL, Dai S-H, Sui ZQ,
Corke
H
. Bioactive compounds and bioactivities of germinated edible seeds and sprouts: An updated review.
Trends Food Sci
.
Technol
. 2017;59:1-14.
doi:10.1016/j.tifs.2016.11.010
Đorđević

ć
TM,
Šiler-Marinkovi

ć
SS,
Dimitrijevi

ć
-Brankovi
ć

SI. Effect of fermentation on antioxidant properties of some cereals and pseudo cereals.

Food Chem

. 2010;119(3):957-63.

doi:10.1016/j.foodchem.2009.07.049

Hung PV, Hatcher DW, Barker W. Phenolic acid composition of sprouted wheats by ultra-performance liquid chromatography (UPLC) and their antioxidant activities.

Food Chem

. 2011;126(4):1896-901.

doi:10.1016/j.foodchem.2010.12.015

Jin

X, Yang R, Guo L, Wang X, Yan X, Gu Z.

iTRAQ

analysis of low-phytate mung bean sprouts treated with sodium citrate, sodium acetate and sodium tartrate.

Food Chem

. 2017;218:285-293.

doi:10.1016/j.foodchem.2016.09.029

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S,

Antal

O.T,

Molnár

H,

Adányi

N,

Fustos

Z,

Naár

Z,

Kheriji

O, Amara H,

Debbabi

H.

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) nutrients and bioactive compounds

.

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Nutr

. Res.

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) nutrients and bioactive compounds

.

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2

-9.

[https://doi.org/10.5281/zenodo.](https://doi.org/10.5281/zenodo.3736294)

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