

```

<?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 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:w16cid="http://schemas.microsoft.com/office/word/2016/wordml/cid" 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:wp="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:cx8="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">
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            w14:paraId="6A2E1C82">
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              <w:jc w:val="left"/>
            - <w:rPr>
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              <w:szCs w:val="16"/>
              <w:lang w:val="fr-FR"/>
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          </w:pPr>
          <w:bookmarkStart w:name="_GoBack" w:id="0"/>
          <w:bookmarkEnd w:id="0"/>
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              <w:szCs w:val="16"/>
            </w:rPr>
            <w:t>The North African Journal of Food and Nutrition Research: (2019) 03; (05): 1</w:t>
          </w:r>
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              <w:szCs w:val="16"/>
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          </w:r>
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              <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
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              <w:szCs w:val="16"/>
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            <w:t>-1</w:t>
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        </w:body>
      </w:document>
    </pkg:xmlData>
  </pkg:part>
</pkg:package>

```

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- <w:r w:rsidR="00C8160A">
  - <w:rPr>
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    <w:szCs w:val="16"/>
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- <w:r w:rsidR="00CF1289">
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    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
  </w:rPr>
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</w:r>
</w:p>
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w14:paraId="06089FDD">
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    <w:jc w:val="left"/>
  - <w:rPr>
    <w:rFonts w:hAnsi="Arial Black" w:ascii="Arial Black"/>
    <w:b/>
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    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
  </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
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  </w:rPr>
- <w:drawing>
  - <wp:anchor wp14:editId="1757FF81" wp14:anchorId="5AC37478" 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"/>
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    </wp:positionH>
    - <wp:positionV relativeFrom="paragraph">
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    </wp:positionV>
    <wp:extent cx="948985" cy="385156"/>
    <wp:effectExtent r="3810" b="0" t="0" l="0"/>
    <wp:wrapNone/>
    <wp:docPr name="Picture 33" id="33" descr="Image result for open access logo"/>
  - <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 logo"/>
          - <pic:cNvPicPr>
            <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
          </pic:cNvPicPr>
        </pic:nvPicPr>
        - <pic:blipFill>
          - <a:blip cstate="print" r:embed="rId8">
            - <a:extLst>
              - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
                <a14:useLocalDpi val="0"
xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
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            </a:extLst>
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            <a:fillRect/>
          </a:stretch>
        </pic:blipFill>
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            </a:prstGeom>
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        </pic:spPr>
    </pic:pic>
    </a:graphicData>
    </a:graphic>
    - <wp14:sizeRelH relativeFrom="margin">
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    - <wp14:sizeRelV relativeFrom="margin">
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    </wp14:sizeRelV>
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    - <w:rPr>
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            w:eastAsia="Leelawadee UI Semilight"/>
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        <w:sz w:val="16"/>
        <w:w w:val="single" w:color="0563C1"/>
    </w:rPr>
    <w:t>https://doi.org/10.5281/</w:t>
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- <w:r w:rsidRPr="005143C7" w:rsidR="005143C7">
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</w:r>
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- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="21250818"
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        <w:b/>
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        <w:spacing w:val="20"/>
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    - <w:rPr>
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      <w:spacing w:val="20"/>
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    <w:tab/>
  </w:r>
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      <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
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      <w:sz w:val="24"/>
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    <w:tab/>
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    - <w:rPr>
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      <w:sz w:val="24"/>
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    - <w:rPr>
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      <w:sz w:val="24"/>
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    - <w:rPr>
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      <w:sz w:val="24"/>
    </w:rPr>
    <w:tab/>
  </w:r>
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- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
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  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="161" w:before="0"/>
    <w:ind w:right="-28" w:left="212" w:firstLine="0"/>
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  </w:pPr>
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:noProof/>
    </w:rPr>
    - <mc:AlternateContent>
      - <mc:Choice Requires="wps">
        - <w:drawing>
          - <wp:anchor wp14:editId="4626D92B" wp14:anchorId="25F1BE86" allowOverlap="1" layoutInCell="1" locked="0"
behindDoc="0" relativeHeight="251661312" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">

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```

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- <wp:positionV relativeFrom="paragraph">
  <wp:posOffset>995045</wp:posOffset>
</wp:positionV>
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<wp:effectExtent r="635" b="6985" t="0" l="0"/>
<wp:wrapNone/>
<wp:docPr name="Shape 13825" id="36"/>
<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/>
      - <wps:spPr>
        - <a:xfrm>
          <a:off y="0" x="0"/>
          <a:ext cx="5981065" cy="12065"/>
        </a:xfrm>
        - <a:custGeom>
          <a:avLst/>
          <a:gdLst/>
          <a:ahLst/>
          <a:cxnLst/>
          <a:rect r="0" b="0" t="0" l="0"/>
          - <a:pathLst>
            - <a:path w="5981426" h="12192">
              - <a:moveTo>
                <a:pt y="0" x="0"/>
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              - <a:lnTo>
                <a:pt y="0" x="5981426"/>
              </a:lnTo>
              - <a:lnTo>
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              </a:lnTo>
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              </a:lnTo>
            </a:path>
          </a:pathLst>
          <a:custGeom>
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            </a:ln>
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        </wps:style>
        - <a:lnRef idx="0">
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            <a:alpha val="0"/>
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        </a:lnRef>
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        - <a:effectRef idx="0">
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        <a:fontRef idx="none"/>
      </wps:style>
    </wps:wsp>
  </a:graphicData>
</a:graphic>
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</w:drawing>
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- <mc:Fallback>
  - <w:pict>
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      o:gfxdata="UESDBBQABgAIAAAAIQC2gziS/gAAAOEBAAATAAAAW0NvbnRlbnRfVHlwZXNdLnhtbJSRQU7DM
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      OfTrorhX2lFEilmcO2RdNtjC5xDf9pCuTyYBB5bi6bQ4syOJ3g9WQ0ymailZg5KdCXlKLjvcW893
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      JsXecLq0q+WD6m8AAAD/wMAUESDBBQABgAIAAAAIQA4/SH/1gAAAJQBAAALAAAX3JlbHMvLnJl
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  </w:pict>
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  </w:pict>
</mc:Fallback>

```

```

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- <w:txbxContent>
- <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidRPr="00073AAE" w:rsidR="00CE128D"
w14:textId="77777777" w14:paraId="77F96FB6">
- <w:pPr>
<w:spacing w:lineRule="auto" w:line="240" w:after="0" w:before="0"/>
<w:ind w:left="11" w:hanging="11"/>
<w:jc w:val="right"/>
- <w:rPr>
<w:b/>
<w:bCs/>
<w:color w:val="538135" w:themeShade="BF" w:themeColor="accent6"/>
<w:lang w:val="fr-FR"/>
</w:rPr>

```

```

        </w:pPr>
        <w:proofErr w:type="spellStart"/>
        - <w:r w:rsidRPr="00073AAE">
            - <w:rPr>
                <w:b/>
                <w:bCs/>
                <w:color w:val="538135" w:themeShade="BF" w:themeColor="accent6"/>
            </w:rPr>
            <w:t>eISSN</w:t>
        </w:r>
        <w:proofErr w:type="spellEnd"/>
        - <w:r w:rsidRPr="00073AAE">
            - <w:rPr>
                <w:b/>
                <w:bCs/>
                <w:color w:val="538135" w:themeShade="BF" w:themeColor="accent6"/>
                <w:lang w:val="fr-FR"/>
            </w:rPr>
            <w:t>: 2588-1582</w:t>
        </w:r>
    </w:p>
</w:txbxContent>
</v:textbox>
<w10:wrap anchorx="margin"/>
</v:shape>
</w:pict>
</mc:Fallback>
</mc:AlternateContent>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
        <w:rFonts w:hAnsi="Century Gothic" w:ascii="Century Gothic"/>
        <w:b/>
        <w:noProof/>
        <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
        <w:sz w:val="30"/>
        <w:szCs w:val="30"/>
    </w:rPr>
    - <w:drawing>
        - <wp:anchor wp14:editId="23166AC0" wp14:anchorId="28997B28" allowOverlap="1" layoutInCell="1" locked="0" behindDoc="0"
            relativeHeight="251659264" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
            <wp:simplePos y="0" x="0"/>
            - <wp:positionH relativeFrom="margin">
                <wp:posOffset>141399</wp:posOffset>
            </wp:positionH>
            - <wp:positionV relativeFrom="paragraph">
                <wp:posOffset>44450</wp:posOffset>
            </wp:positionV>
            <wp:extent cx="1442720" cy="951230"/>
            <wp:effectExtent r="5080" b="1270" t="0" l="0"/>
            <wp:wrapNone/>
            <wp:docPr name="Picture 34" id="34" descr="H:\1st Partition\My Activities\The NAJFNR\Website\Images\NAJFNR
                Logo.png"/>
            - <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 4" id="0" descr="H:\1st Partition\My Activities\The
                                NAJFNR\Website\Images\NAJFNR Logo.png"/>
                            - <pic:cNvPicPr>
                                <a:picLocks noChangeAspect="1" noChangeArrowheads="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:srcRect/>
                            - <a:stretch>
                                <a:fillRect/>
                            </a:stretch>
                        </pic:blipFill>
                        - <pic:spPr bwMode="auto">
                            - <a:xfrm>

```

```

        <a:off y="0" x="0"/>
        <a:ext cx="1442720" cy="951230"/>
        </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:rsidRPr="00CD3D56">
    - <w:rPr>
        <w:noProof/>
        <w:sz w:val="22"/>
    </w:rPr>
    - <mc:AlternateContent>
        - <mc:Choice Requires="wpg">
            - <w:drawing>
                - <wp:inline wp14:editId="5244F73B" wp14:anchorId="2E0A0A96" distR="0" distL="0" distB="0" distT="0">
                    <wp:extent cx="5988055" cy="1014412"/>
                    <wp:effectExtent r="0" b="0" t="0" l="0"/>
                    <wp:docPr name="Group 10991" id="10991"/>
                    <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>
                                        - <wpg:grpSpPr>
                                            - <a:xfrm>
                                                <a:off y="0" x="0"/>
                                                <a:ext cx="5988055" cy="1014412"/>
                                                <a:chOff y="39628" x="-43766"/>
                                                <a:chExt cx="5988055" cy="1122214"/>
                                            </a:xfrm>
                                        </wpg:grpSpPr>
                                    - <wps:wsp>
                                        <wps:cNvPr name="Rectangle 147" id="147"/>
                                        <wps:cNvSpPr>
                                            - <wps:spPr>
                                                - <a:xfrm>
                                                    <a:off y="39628" x="2990669"/>
                                                    <a:ext cx="42144" cy="186477"/>
                                                </a:xfrm>
                                                - <a:prstGeom prst="rect">
                                                    <a:avLst/>
                                                    </a:prstGeom>
                                                    - <a:ln>
                                                        <a:noFill/>
                                                    </a:ln>
                                                </wps:spPr>
                                            </wps:spPr>
                                        - <wps:txbx>
                                            - <w:txbxContent>
                                                - <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidR="00CE128D" w14:textId="77777777" w14:paraId="1D93746B">
                                                    - <w:pPr>
                                                        <w:spacing w:lineRule="auto" w:line="259" w:after="160" w:before="0"/>
                                                        <w:ind w:right="0" w:left="0" w:firstLine="0"/>
                                                        <w:jc w:val="left"/>
                                                    </w:pPr>
                                                    - <w:r>
                                                        - <w:rPr>
                                                            <w:sz w:val="22"/>
                                                        </w:rPr>
                                                        <w:t xml:space="preserve"></w:t>
                                                    </w:r>
                                                </w:p>
                                            </w:txbxContent>
                                        </wps:txbx>
                                    </wps:txbx>
                                </wpg:wpg>
                            </a:graphicData>
                        </a:graphic>
                    </wp:cNvGraphicFramePr>
                </wp:inline>
            </w:drawing>
        </mc:Choice>
    </mc:AlternateContent>
</w:r>

```

```

        <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
        horzOverflow="overflow">
            <a:noAutofit/>
        </wps:bodyPr>
    </wps:wsp>
- <wps:wsp>
    <wps:cNvPr name="Rectangle 148" id="148"/>
    <wps:cNvSpPr/>
    - <wps:spPr>
        - <a:xfrm>
            <a:off y="507496" x="2990669"/>
            <a:ext cx="42144" cy="186477"/>
        </a:xfrm>
        - <a:prstGeom prst="rect">
            <a:avLst/>
        </a:prstGeom>
        - <a:ln>
            <a:noFill/>
        </a:ln>
    </wps:spPr>
    - <wps:txbx>
        - <w:txbxContent>
            - <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidR="00CE128D"
              w14:textId="77777777" w14:paraId="5C1E4E02">
                - <w:pPr>
                    <w:spacing w:lineRule="auto" w:line="259" w:after="160" w:before="0"/>
                    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
                    <w:jc w:val="left"/>
                </w:pPr>
                - <w:r>
                    - <w:rPr>
                        <w:sz w:val="22"/>
                    </w:rPr>
                    <w:t xml:space="preserve"></w:t>
                </w:r>
            </w:p>
        </w:txbxContent>
    </wps:txbx>
    - <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
      horzOverflow="overflow">
        <a:noAutofit/>
    </wps:bodyPr>
</wps:wsp>
- <wps:wsp>
    <wps:cNvPr name="Rectangle 149" id="149"/>
    <wps:cNvSpPr/>
    - <wps:spPr>
        - <a:xfrm>
            <a:off y="975365" x="2990669"/>
            <a:ext cx="42144" cy="186477"/>
        </a:xfrm>
        - <a:prstGeom prst="rect">
            <a:avLst/>
        </a:prstGeom>
        - <a:ln>
            <a:noFill/>
        </a:ln>
    </wps:spPr>
    - <wps:txbx>
        - <w:txbxContent>
            - <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidR="00CE128D"
              w14:textId="77777777" w14:paraId="4A361E18">
                - <w:pPr>
                    <w:spacing w:lineRule="auto" w:line="259" w:after="160" w:before="0"/>
                    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
                    <w:jc w:val="left"/>
                </w:pPr>
                - <w:r>
                    - <w:rPr>
                        <w:sz w:val="22"/>
                    </w:rPr>
                    <w:t xml:space="preserve"></w:t>
                </w:r>
            </w:p>
        </w:txbxContent>
    </wps:txbx>
    - <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
      horzOverflow="overflow">
        <a:noAutofit/>
    </wps:bodyPr>
</wps:wsp>
- <wps:wsp>

```

```

<wps:cNvPr name="Rectangle 239" id="239"/>
<wps:cNvSpPr/>
- <wps:spPr>
  - <a:xfrm>
    <a:off y="517241" x="1971991"/>
    <a:ext cx="1781790" cy="168235"/>
  </a:xfrm>
  - <a:prstGeom prst="rect">
    <a:avLst/>
  </a:prstGeom>
  - <a:ln>
    <a:noFill/>
  </a:ln>
</wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidRPr="00B409E3"
      w:rsidR="00CE128D" w14:textId="77777777" w14:paraId="7CB68B97">
      - <w:pPr>
        <w:spacing w:lineRule="auto" w:line="259" w:after="160" w:before="0"/>
        <w:ind w:right="0" w:left="0" w:firstLine="0"/>
        <w:jc w:val="center"/>
      - <w:rPr>
        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      </w:rPr>
    </w:pPr>
    - <w:r w:rsidRPr="00B409E3">
      - <w:rPr>
        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      </w:rPr>
      <w:t>Contents lists available at</w:t>
    </w:r>
  </w:p>
</w:txbxContent>
</wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
  horzOverflow="overflow">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 242" id="242"/>
  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
      <a:off y="555884" x="3543881"/>
      <a:ext cx="38021" cy="168235"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
  - <wps:txbx>
    - <w:txbxContent>
      - <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidR="00CE128D"
        w14:textId="77777777" w14:paraId="25D5D167">
        - <w:pPr>
          <w:spacing w:lineRule="auto" w:line="259" w:after="160" w:before="0"/>
          <w:ind w:right="0" w:left="0" w:firstLine="0"/>
          <w:jc w:val="left"/>
        </w:pPr>
      - <w:r>
        <w:t xml:space="preserve"></w:t>
      </w:r>
    </w:p>
  </w:txbxContent>
</wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
  horzOverflow="overflow">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Shape 13829" id="13829"/>
  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
      <a:off y="673229" x="-43766"/>
      <a:ext cx="5981064" cy="365760"/>

```

```

</a:xfrm>
- <a:custGeom>
  <a:avLst/>
  <a:gdLst/>
  <a:ahLst/>
  <a:cxnLst/>
  <a:rect r="0" b="0" t="0" l="0"/>
  - <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="accent6">
    <a:lumMod val="40000"/>
    <a:lumOff val="60000"/>
  </a:schemeClr>
</a:solidFill>
- <a:ln w="0" cap="rnd">
  <a:miter lim="127000"/>
</a:ln>
</wps:spPr>
- <wps:style>
  - <a:lnRef idx="0">
    - <a:srgbClr val="000000">
      <a:alpha val="0"/>
    </a:srgbClr>
  </a:lnRef>
  - <a:fillRef idx="1">
    <a:srgbClr val="F2F2F2"/>
  </a:fillRef>
  - <a:effectRef idx="0">
    <a:scrgbClr r="0" b="0" g="0"/>
  </a:effectRef>
  <a:fontRef idx="none"/>
</wps:style>
<wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 244" id="244"/>
  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
      <a:off y="697360" x="1835110"/>
      <a:ext cx="2933739" cy="168235"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
      <a:prstGeom>
        - <a:ln>
          <a:noFill/>
        </a:ln>
      </a:prstGeom>
    </wps:spPr>
  - <wps:txbx>
    - <w:txbxContent>
      - <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidRPr="00B409E3"
        w:rsidR="00CE128D" w14:textId="77777777" w14:paraId="23452E7A">
        - <w:pPr>
          <w:spacing w:lineRule="auto" w:line="259" w:after="160" w:before="0"/>
          <w:ind w:right="0" w:left="0" w:firstLine="0"/>
          <w:jc w:val="left"/>
        - <w:rPr>
          <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        </w:rPr>
      </w:p>
      - <w:r w:rsidRPr="00B409E3">
        - <w:rPr>

```

```

        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    </w:rPr>
    <w:t xml:space="preserve">Journal homepage: </w:t>
</w:r>
- <w:hyperlink r:id="rId10" w:history="1">
    - <w:r w:rsidRPr="00B409E3">
        - <w:rPr>
            <w:rStyle w:val="Hyperlink"/>
            <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        </w:rPr>
        <w:t>https://www.najfnr.org</w:t>
    </w:r>
    </w:hyperlink>
    - <w:r w:rsidRPr="00B409E3">
        - <w:rPr>
            <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        </w:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
</w:p>
</w:txbxContent>
</wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
    horzOverflow="overflow">
    <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
    <wps:cNvPr name="Rectangle 246" id="246"/>
    <wps:cNvSpPr/>
    - <wps:spPr>
        - <a:xfrm>
            <a:off y="697616" x="3882209"/>
            <a:ext cx="38021" cy="168235"/>
        </a:xfrm>
        - <a:prstGeom prst="rect">
            <a:avLst/>
        </a:prstGeom>
        - <a:ln>
            <a:noFill/>
        </a:ln>
    </wps:spPr>
</wps:txbx>
- <wps:txbx>
    - <w:txbxContent>
        - <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidR="00CE128D"
            w14:textId="77777777" w14:paraId="27E10F29">
            - <w:pPr>
                <w:spacing w:lineRule="auto" w:line="259" w:after="160" w:before="0"/>
                <w:ind w:right="0" w:left="0" w:firstLine="0"/>
                <w:jc w:val="left"/>
            </w:pPr>
            - <w:r>
                <w:t xml:space="preserve"></w:t>
            </w:r>
        </w:p>
    </w:txbxContent>
</wps:txbx>
- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
    horzOverflow="overflow">
    <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
    <wps:cNvPr name="Rectangle 255" id="255"/>
    <wps:cNvSpPr/>
    - <wps:spPr>
        - <a:xfrm>
            <a:off y="906785" x="5902145"/>
            <a:ext cx="42144" cy="186477"/>
        </a:xfrm>
        - <a:prstGeom prst="rect">
            <a:avLst/>
        </a:prstGeom>
        - <a:ln>
            <a:noFill/>
        </a:ln>
    </wps:spPr>
</wps:txbx>
- <wps:txbx>
    - <w:txbxContent>
        - <w:p w:rsidP="0042764D" w:rsidRDefault="00CE128D" w:rsidR="00CE128D"
            w14:textId="77777777" w14:paraId="6621894D">
            - <w:pPr>

```

```

        <w:spacing w:lineRule="auto" w:line="259" w:after="160" w:before="0"/>
        <w:ind w:right="0" w:left="0" w:firstLine="0"/>
        <w:jc w:val="left"/>
    </w:pPr>
    - <w:r>
        - <w:rPr>
            <w:sz w:val="22"/>
        </w:rPr>
        <w:t xml:space="preserve"> </w:t>
    </w:r>
</w:p>
<w:txbxContent>
</w:txbx>
- <wps:bodyPr b:lns="0" r:lns="0" t:lns="0" l:lns="0" vert="horz" rtlCol="0"
  horzOverflow="overflow">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
</wpg:wgp>
</a:graphicData>
</a:graphic>
</wp:inline>
</w:drawing>
</mc:Choice>
- <mc:Fallback>
  - <w:pict>
    - <v:group id="Group 10991" w:14:anchorId="2E0A0A96"
      o:gfxdata="UESDBBQABgAIAAAAIQC2gziS/gAAAOEBAAATAAAAW0NvbnRlbnRfVHlwZXNdLnhtbJSRQU7DN
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```

```

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    - <w:txbxContent>
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            <w:ind w:right="0" w:left="0" w:firstLine="0"/>
            <w:jc w:val="left"/>
          </w:pPr>
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        <w:t>
          <w:t xml:space="preserve"></w:t>
        </w:r>
      </w:p>
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          <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
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  - <w:hyperlink r:id="rId11" w:history="1">

```

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- <w:r w:rsidRPr="00B409E3">
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  </w:rPr>
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</w:r>
</w:hyperlink>
- <w:r w:rsidRPr="00B409E3">
  - <w:rPr>
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        - <w:rPr>
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    <w:sz w:val="30"/>
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  </w:rPr>
  </w:pPr>
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    - <w:rPr>
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      <w:szCs w:val="30"/>
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```

```

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            <w:szCs w:val="30"/>
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    </w:r>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
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            <w:b/>
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        </w:rPr>
        <w:t>L.) peel</w:t>
    </w:r>
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- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="73F687CF"
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    - <w:rPr>
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        <w:vertAlign w:val="superscript"/>
    </w:rPr>
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        <w:proofErr w:type="spellStart"/>
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            <w:bCs/>
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    </w:r>
    <w:proofErr w:type="spellEnd"/>
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            <w:u w:val="single"/>
        </w:rPr>
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    </w:r>
    - <w:r w:rsidRPr="00EB630D" w:rsidR="00EB630D">
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```

```

        </w:rPr>
        <w:t xml:space="preserve">and Hayat AMELLAL-CHIBANE </w:t>
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</w:p>
- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
w14:paraId="78BF5849">
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        <w:jc w:val="center"/>
    - <w:rPr>
        <w:rFonts w:hAnsiTheme="minorHAnsi" w:asciiTheme="minorHAnsi" w:cstheme="minorHAnsi"/>
        <w:color w:val="000000" w:themeColor="text1"/>
        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
    </w:rPr>
    </w:pPr>
</w:p>
- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
w14:paraId="052451A6">
    - <w:pPr>
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        <w:ind w:right="0" w:left="235"/>
        <w:jc w:val="center"/>
    - <w:rPr>
        <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
        <w:bCs/>
        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
    </w:rPr>
    </w:pPr>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>
        <w:t xml:space="preserve">Laboratory of Soft Technology, Valorization, Physical-chemistry of Biological Materials and Biodiversity,
        </w:t>
    </w:r>
</w:p>
- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="60F07E26"
w14:paraId="5FAAF263">
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        <w:spacing w:lineRule="auto" w:line="259" w:after="5" w:before="0"/>
        <w:ind w:right="0" w:left="235"/>
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    - <w:rPr>
        <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
        <w:bCs/>
        <w:sz w:val="16"/>
        <w:szCs w:val="16"/>
    </w:rPr>
    </w:pPr>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>
        <w:t xml:space="preserve">Faculty of Sciences, University </w:t>
    </w:r>
    <w:proofErr w:type="spellStart"/>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>
        <w:t>M'hamed</w:t>
    </w:r>
    <w:proofErr w:type="spellEnd"/>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
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            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>

```

```

        <w:t xml:space="preserve"></w:t>
    </w:r>
    <w:proofErr w:type="spellStart"/>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
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            <w:bCs/>
            <w:sz w:val="16"/>
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        </w:rPr>
        <w:t>Bougara</w:t>
    </w:r>
    <w:proofErr w:type="spellEnd"/>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
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            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>
        <w:t xml:space="preserve"> of </w:t>
    </w:r>
    <w:proofErr w:type="spellStart"/>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>
        <w:t>Boumerdes</w:t>
    </w:r>
    <w:proofErr w:type="spellEnd"/>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>
        <w:t xml:space="preserve">, 35000, </w:t>
    </w:r>
    <w:proofErr w:type="spellStart"/>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>
        <w:t>Boumerdes</w:t>
    </w:r>
    <w:proofErr w:type="spellEnd"/>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
            <w:bCs/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
        </w:rPr>
        <w:t>, Algeria</w:t>
    </w:r>
</w:p>
- <w:tbl>
    - <w:tblPr>
        <w:tblStyle w:val="TableGrid"/>
        <w:tblPr w:tblpY="564" w:tblpX="240" w:vertAnchor="text"/>
        <w:tblOverlap w:val="never"/>
        <w:tblW w:w="5130" 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="3442"/>
        <w:gridCol w:w="264"/>
        <w:gridCol w:w="1424"/>
    </w:tblGrid>
    - <w:tr w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="7777777" w14:paraId="28725021" w:rsidTr="0066593C">
        - <w:trPr>
            <w:trHeight w:val="562"/>
        </w:trPr>
        - <w:tc>

```

```

- <w:tcPr>
  <w:tcW w:w="3442" w:type="dxa"/>
  - <w:tcBorders>
    <w:top w:val="nil"/>
    <w:left w:val="nil"/>
    <w:bottom w:val="nil"/>
    <w:right w:val="nil"/>
  </w:tcBorders>
</w:tcPr>
- <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
w14:paraId="3C21A232">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="240" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:contextualSpacing/>
    <w:jc w:val="left"/>
  - <w:rPr>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    <w:b/>
    <w:bCs/>
  </w:rPr>
</w:pPr>
</w:p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
w14:paraId="71583705">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="240" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:contextualSpacing/>
    <w:jc w:val="left"/>
  - <w:rPr>
    <w:rFonts w:cs="Times New Roman" w:hAnsi="Times New Roman" w:ascii="Times New Roman"/>
  </w:rPr>
</w:pPr>
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:rFonts w:cs="Times New Roman" w:hAnsi="Times New Roman" w:ascii="Times New Roman"/>
      <w:noProof/>
    </w:rPr>
    <w:t>A R</w:t>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:rFonts w:cs="Times New Roman" w:hAnsi="Times New Roman" w:ascii="Times New Roman"/>
    </w:rPr>
    <w:t xml:space="preserve">T I C L E I N F O</w:t>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56">
    <w:t xml:space="preserve"></w:t>
  </w:r>
</w:p>
</w:tc>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="264" w:type="dxa"/>
    - <w:tcBorders>
      <w:top w:val="nil"/>
      <w:left w:val="nil"/>
      <w:bottom w:val="nil"/>
      <w:right w:val="nil"/>
    </w:tcBorders>
    <w:vAlign w:val="bottom"/>
  </w:tcPr>
  - <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
w14:paraId="6043B95E">
    - <w:pPr>
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      <w:ind w:right="0" w:left="0" w:firstLine="0"/>
      <w:contextualSpacing/>
      <w:jc w:val="left"/>
    </w:pPr>
    - <w:r w:rsidRPr="00CD3D56">
      <w:t xml:space="preserve"></w:t>
    </w:r>
  </w:p>
</w:tc>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="1424" w:type="dxa"/>
    - <w:tcBorders>
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      <w:left w:val="nil"/>

```

```

        <w:bottom w:val="nil"/>
        <w:right w:val="nil"/>
      </w:tcBorders>
    </w:tcPr>
  - <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
    w14:paraId="212B4369">
    - <w:pPr>
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      <w:ind w:right="0" w:left="0" w:firstLine="0"/>
      <w:contextualSpacing/>
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
    </w:rPr>
    </w:pPr>
  </w:p>
  - <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
    w14:paraId="13C5DB14">
    - <w:pPr>
      <w:spacing w:lineRule="auto" w:line="240" w:after="0" w:before="0"/>
      <w:ind w:right="0" w:left="0" w:firstLine="0"/>
      <w:contextualSpacing/>
    - <w:rPr>
      <w:rFonts w:hAnsi="Bell MT" w:ascii="Bell MT"/>
    </w:rPr>
    </w:pPr>
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:rFonts w:hAnsi="Bell MT" w:ascii="Bell MT"/>
    </w:rPr>
    <w:t xml:space="preserve">A B S T R A C T </w:t>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56">
    <w:t xml:space="preserve"></w:t>
  </w:r>
  </w:p>
</w:tc>
</w:tr>
</w:tbl>
- <w:tbl>
  - <w:tblPr>
    <w:tblStyle w:val="TableGrid0"/>
    <w:tblpPr w:tblpY="1306" w:tblpX="90" w:vertAnchor="text" w:horzAnchor="margin" w:rightFromText="180"
      w:leftFromText="180"/>
    <w:tblW w:w="9490" 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="3701"/>
  <w:gridCol w:w="5789"/>
</w:tblGrid>
- <w:tr w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777" w14:paraId="0485AAD5" w:rsidTr="0066593C">
  - <w:tc>
    - <w:tcPr>
      <w:tcW w:w="3701" w:type="dxa"/>
    </w:tcPr>
  - <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
    w14:paraId="4478CEDD">
    - <w:pPr>
      <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
      <w:ind w:right="0" w:left="0" w:firstLine="0"/>
      <w:jc w:val="left"/>
    - <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:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>

```

```

</w:pPr>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
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    <w:b/>
    <w:bCs/>
    <w:iCs/>
    <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="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="1847424B"
w14:paraId="69A4DC0F">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
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    <w:jc w:val="left"/>
  - <w:rPr>
    <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:pPr>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
Semilight"/>
    <w:sz w:val="14"/>
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  </w:rPr>
  <w:t xml:space="preserve">Received </w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56" w:rsidR="00331287">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
Semilight"/>
    <w:sz w:val="14"/>
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>26</w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <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 xml:space="preserve">November 2018 </w:t>
</w:r>
</w:p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="6BF937ED"
w14:paraId="749B1B3D">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="left"/>
  - <w:rPr>
    <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:pPr>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
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Semilight"/>
    <w:sz w:val="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Accepted 2</w:t>

```

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</w:r>
- <w:r w:rsidRPr="00CD3D56" w:rsidR="00331287">
  - <w:rPr>
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      Semilight"/>
    <w:sz w:val="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>5</w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <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 xml:space="preserve">January 2019</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="15919CBB"
  w14:paraId="7D70F3A9">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="120" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="left"/>
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
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    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
      Semilight"/>
    <w:sz w:val="14"/>
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  </w:rPr>
  <w:t xml:space="preserve">Available online</w:t>
</w:r>
- <w:r w:rsidR="005143C7">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
      Semilight"/>
    <w:sz w:val="14"/>
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  </w:rPr>
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</w:r>
- <w:r w:rsidR="0066627E">
  - <w:rPr>
    <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>9</w:t>
</w:r>
- <w:r w:rsidR="005143C7">
  - <w:rPr>
    <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 xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <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 xml:space="preserve">February </w:t>
    </w:r>
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
      <w:color w:val="auto"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>2019</w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777" w14:parald="71408803">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="left"/>
  - <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:sz w:val="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
  - <w:r w:rsidRPr="00CD3D56">
    - <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:sz w:val="14"/>
      <w:szCs w:val="14"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">Keywords: </w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="000248E9" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="204D581C" w14:parald="53AED167">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="left"/>
  - <w:rPr>
    <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:pPr>
  - <w:r>
    - <w:rPr>
      <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>P</w:t>
  </w:r>
  - <w:r w:rsidRPr="000248E9">
    - <w:rPr>
      <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>omegranate peels</w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="000248E9" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="4D6376BB" w14:parald="74A42F10">

```

```

- <w:pPr>
  <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
  <w:ind w:right="0" w:left="0" w:firstLine="0"/>
  <w:jc w:val="left"/>
- <w:rPr>
  <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:pPr>
- <w:r>
  - <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="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>S</w:t>
</w:r>
- <w:r w:rsidRPr="000248E9">
  - <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="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>olvent extraction</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="000248E9" w:rsidR="0042764D" w14:textId="3A19B1DD" w14:paraId="59AE6010">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="left"/>
  - <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="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
- <w:r>
  - <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="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>A</w:t>
</w:r>
- <w:r w:rsidRPr="000248E9">
  - <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="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>ntioxidant activity</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="000248E9" w:rsidRPr="00CD3D56" w:rsidR="000248E9" w14:textId="7E5A1C02"
  w14:paraId="06C94C19">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="left"/>
  - <w:rPr>
    <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:pPr>
- <w:r>
    - <w:rPr>
        <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>P</w:t>
</w:r>
- <w:r w:rsidRPr="000248E9">
    - <w:rPr>
        <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>henolic antioxidants</w:t>
</w:r>
</w:p>
- <w:tbl>
    - <w:tblPr>
        <w:tblStyle w:val="TableGrid0"/>
        <w:tblPr w:tblpY="228" w:vertAnchor="text" w:horzAnchor="margin" w:rightFromText="180" w:leftFromText="180"/>
        <w:tblOverlap w:val="never"/>
        <w:tblW w:w="0" w:type="auto"/>
        <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="1615"/>
        <w:gridCol w:w="1620"/>
    </w:tblGrid>
    - <w:tr w:rsidRPr="00CD3D56" w:rsidR="006A7F38" w14:textId="77777777" w14:paraId="17915BC4" w:rsidTr="007A1188">
        - <w:tc>
            - <w:tcPr>
                <w:tcW w:w="3235" w:type="dxa"/>
                <w:gridSpan w:val="2"/>
                <w:shd w:val="clear" w:color="auto" w:themeFillShade="BF" w:themeFill="accent6" w:fill="538135"/>
            </w:tcPr>
            - <w:p w:rsidP="006A7F38" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="006A7F38" w14:textId="77777777" w14:paraId="6C29B854">
                - <w:pPr>
                    <w:autoSpaceDE w:val="0"/>
                    <w:autoSpaceDN w:val="0"/>
                    <w:adjustRightInd w:val="0"/>
                    <w:snapToGrid w:val="0"/>
                    <w:spacing w:lineRule="auto" w:line="240" w:after="0" w:before="0"/>
                    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
                    <w:jc w:val="center"/>
                </w:pPr>
                - <w:rPr>
                    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
                    <w:b/>
                    <w:bCs/>
                    <w:color w:val="FFFFFF" w:themeColor="background1"/>
                    <w:lang w:val="en-US"/>
                </w:rPr>
            </w:p>
        </w:tr>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:cs="Arial-BoldMT" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT" w:eastAsia="Times New Roman"/>
            <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="00CD3D56" w:rsidR="006A7F38" w14:textId="77777777" w14:paraId="4E3F830A"
w:rsidTr="007A1188">
  - <w:trPr>
    <w:trHeight w:val="202"/>
  </w:trPr>
  - <w:tc>
    - <w:tcPr>
      <w:tcW w:w="1615" w:type="dxa"/>
    </w:tcPr>
    - <w:p w:rsidP="006A7F38" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="006A7F38"
      w14:textId="77777777" w14:paraId="3E7A1B63">
        - <w:pPr>
          <w:autoSpaceDE w:val="0"/>
          <w:autoSpaceDN w:val="0"/>
          <w:adjustRightInd w:val="0"/>
          <w:snapToGrid w:val="0"/>
          <w:spacing w:lineRule="auto" w:line="240" w:after="0" w:before="0"/>
          <w:ind w:right="0" w:left="0" w:firstLine="0"/>
          <w:jc w:val="center"/>
        - <w:rPr>
          <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
          <w:lang w:val="en-US"/>
        </w:rPr>
      </w:pPr>
    - <w:r w:rsidRPr="00CD3D56">
      - <w:rPr>
        <w:rFonts w:cs="Arial-BoldMT" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT" w:eastAsia="Times
          New Roman"/>
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        <w:szCs w:val="24"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t>Quick Response Code</w:t>
    </w:r>
    - <w:r w:rsidRPr="00CD3D56">
      - <w:rPr>
        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t></w:t>
    </w:r>
  </w:p>
</w:tc>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="1620" w:type="dxa"/>
    <w:vMerge w:val="restart"/>
  </w:tcPr>
  - <w:p w:rsidP="006A7F38" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="006A7F38"
    w14:textId="77777777" w14:paraId="6D796CBE">
    - <w:pPr>
      <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
      <w:ind w:right="0" w:left="0" w:firstLine="0"/>
      <w:jc w:val="left"/>
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">Website: </w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="006A7F38" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="006A7F38"
  w14:textId="77777777" w14:paraId="664DB5AC">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="left"/>
  - <w:rPr>

```

```

        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
        <w:rFonts w:hAnsi="Century Gothic" w:ascii="Century Gothic"/>
        <w:b/>
        <w:noProof/>
        <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
        <w:sz w:val="30"/>
        <w:szCs w:val="30"/>
    </w:rPr>
    - <mc:AlternateContent>
        - <mc:Choice Requires="wps">
            - <w:drawing>
                - <wp:anchor wp14:editId="40DA94FB" wp14:anchorId="60FC0F0F" allowOverlap="1"
                    layoutInCell="1" locked="0" behindDoc="0" relativeHeight="251680768" simplePos="0"
                    distR="114300" distL="114300" distB="45720" distT="45720">
                    <wp:simplePos y="0" x="0"/>
                    - <wp:positionH relativeFrom="margin">
                        <wp:posOffset>-36194</wp:posOffset>
                    </wp:positionH>
                    - <wp:positionV relativeFrom="paragraph">
                        <wp:posOffset>280035</wp:posOffset>
                    </wp:positionV>
                    <wp:extent cx="863600" cy="252442"/>
                    <wp:effectExtent r="0" b="0" t="0" l="0"/>
                    <wp:wrapNone/>
                    <wp:docPr name="Text Box 2" id="4"/>
                - <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 txBox="1">
                                <a:spLocks noChangeArrowheads="1"/>
                            </wps:cNvSpPr>
                            - <wps:spPr bwMode="auto">
                                - <a:xfrm>
                                    <a:off y="0" x="0"/>
                                    <a:ext cx="863600" cy="252442"/>
                                </a:xfrm>
                                - <a:prstGeom prst="rect">
                                    <a:avLst>
                                        </a:prstGeom>
                                    </a:solidFill>
                                    <a:srgbClr val="FFFFFF"/>
                                </a:solidFill>
                                - <a:ln w="9525">
                                    <a:noFill/>
                                    <a:miter lim="800000"/>
                                    <a:headEnd/>
                                    <a:tailEnd/>
                                </a:ln>
                            </wps:spPr>
                        - <wps:txbx>
                            - <w:txbxContent>
                                - <w:p w:rsidP="006A7F38" w:rsidRDefault="00CE128D"
                                    w:rsidRPr="00847784" w:rsidR="00CE128D"
                                    w14:textId="77777777" w14:paraId="50B3B443">
                                    - <w:pPr>
                                        <w:spacing w:lineRule="auto" w:line="240"
                                            w:after="0" w:before="0"/>
                                        <w:ind w:left="11" w:hanging="11"/>
                                        <w:jc w:val="right"/>
                                    </w:pPr>
                                </w:rPr>
                                <w:lang w:val="fr-FR"/>
                                </w:rPr>
                            </w:pPr>
                        - <w:r>
                            - <w:rPr>
                                <w:noProof/>
                            </w:rPr>
                        - <w:drawing>
                            -

```

```

<wp:inline wp14:editId="2BDA2E29"
wp14:anchorId="19173F0A" distR="0"
distL="0" distB="0" distT="0">
  <wp:extent cx="673100" cy="241300"/>
  <wp:effectExtent r="0" b="6350" t="0"
  l="0"/>
  <wp:docPr name="Picture 11" id="11"/>
  - <wp:cNvGraphicFramePr>
    <a:graphicFrameLocks
      noChangeAspect="1"
      xmlns:a="http://schemas.openxml
    </wp:cNvGraphicFramePr>
  - <a:graphic
    xmlns:a="http://schemas.openxmlformats.o
  - <a:graphicData
    uri="http://schemas.openxmlformats.o
  - <pic:pic
    xmlns:pic="http://schemas.openx
  - <pic:nvPicPr>
    <pic:cNvPr
      name="Picture 1"
      id="0"/>
  - <pic:cNvPicPr>
    <a:picLocks
      noChangeAspe
      noChangeArro
    </pic:cNvPicPr>
  </pic:nvPicPr>
  - <pic:blipFill>
    - <a:blip
      r:embed="rId12">
      - <a:extLst>
        - <a:ext
          uri="{28A0092
            C50C-407E-
            A947-
            70E740481C1
          <a:14:useL
            val='
            xmlns
          </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="673100"
        cy="241300"/>
    </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>
</wp:inline>
</w:drawing>
</w:r>
</w:p>
</w:txbxContent>
</wps:txbx>
- <wps:bodyPr anchorCtr="0" anchor="t" bIns="45720" rIns="91440"
  tIns="45720" lIns="91440" wrap="none" vert="horz" rot="0">
  <a:spAutoFit/>
</wps:bodyPr>
</wps:wsp>
</a:graphicData>
</a:graphic>
- <wp14:sizeRelH relativeFrom="margin">

```



```

<pic:pic
xmlns:pic="http://schemas.openxmlformats.org
- <pic:nvPicPr>
  <pic:cNvPr name="Picture 1"
    id="0"/>
  - <pic:cNvPicPr>
    <a:picLocks noChangeAspect="1"
      noChangeArrowheads="1"/>
    </pic:cNvPicPr>
  </pic:nvPicPr>
- <pic:blipFill>
  - <a:blip r:embed="rId13">
    - <a:extLst>
      - <a:ext uri="{28A0092B-
        C50C-407E-A947-
        70E740481C1C}">
        <a14:useLocalDpi
          val="0"
          xmlns:a14="http://s
        </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="673100"
      cy="241300"/>
  </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>
</wp:inline>
</w:drawing>
</w:r>
</w:p>
</w:txbxContent>
</v:textbox>
<w10:wrap anchorx="margin"/>
</v:shape>
</w:pict>
</mc:Fallback>
</mc:AlternateContent>
</w:r>
- <w:hyperlink r:id="rId14" w:history="1">
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:rStyle w:val="Hyperlink"/>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>www.najfnr.or</w:t>
  </w:r>
</w:hyperlink>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <w:rStyle w:val="Hyperlink"/>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>g</w:t>
</w:r>
</w:p>
</w:tc>
</w:tr>
- <w:tr w:rsidRPr="00CD3D56" w:rsidR="006A7F38" w14:textId="77777777" w14:paraId="4900F58A" w:rsidTr="007A1188">

```

```

- <w:trPr>
  <w:trHeight w:val="1013"/>
</w:trPr>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="1615" w:type="dxa"/>
  </w:tcPr>
- <w:p w:rsidP="006A7F38" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="006A7F38"
  w14:textId="77777777" w14:paraId="759304A0">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="center"/>
  - <w:rPr>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <w:noProof/>
  </w:rPr>
- <w:drawing>
  - <wp:anchor wp14:editId="301D504B" wp14:anchorId="1C92358E" allowOverlap="1"
    layoutInCell="1" locked="0" behindDoc="0" relativeHeight="251679744" simplePos="0"
    distR="114300" distL="114300" distB="0" distT="0">
    <wp:simplePos y="0" x="0"/>
    - <wp:positionH relativeFrom="column">
      <wp:posOffset>207678</wp:posOffset>
    </wp:positionH>
    - <wp:positionV relativeFrom="paragraph">
      <wp:posOffset>90203</wp:posOffset>
    </wp:positionV>
    <wp:extent cx="486888" cy="457200"/>
    <wp:effectExtent r="8890" b="0" t="0" l="0"/>
    <wp:wrapNone/>
    <wp:docPr name="Picture 1" id="1"/>
  - <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="rId15">
              - <a:extLst>
                - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
                  <a14:useLocalDpi val="0"
                    xmlns:a14="http://schemas.microsoft.com/office/drawing"
                  >
                </a:ext>
              </a:extLst>
            </a:blip>
          - <a:stretch>
            <a:fillRect/>
          </a:stretch>
        </pic:blipFill>
        - <pic:spPr>
          - <a:xfmr>
            <a:off y="0" x="0"/>
            <a:ext cx="486888" cy="457200"/>
          </a:xfmr>
          - <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">
    <wp14:pctHeight>0</wp14:pctHeight>
  </wp14:sizeRelV>
</wp:anchor>
</w:drawing>
</w:r>

```

```

    </w:p>
  </w:tc>
- <w:tc>
  - <w:tcPr>
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    <w:vMerge/>
  </w:tcPr>
- <w:p w:rsidP="006A7F38" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="006A7F38"
  w14:textId="77777777" w14:paraId="242560D8">
  - <w:pPr>
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    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
    <w:jc w:val="left"/>
  - <w:rPr>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
</w:p>
</w:tr>
</w:tbl>
- <w:tr w:rsidRPr="00CD3D56" w:rsidR="006A7F38" w14:textId="77777777" w14:paraId="44F408A2" w:rsidTr="007A1188">
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    <w:trHeight w:val="202"/>
  </w:trPr>
- <w:tc>
  - <w:tcPr>
    <w:tcW w:w="3235" w:type="dxa"/>
    <w:gridSpan w:val="2"/>
  </w:tcPr>
- <w:p w:rsidP="006A7F38" w:rsidRDefault="005143C7" w:rsidRPr="00CD3D56" w:rsidR="006A7F38"
  w14:textId="0D866885" w14:paraId="44D89C61">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="0" w:left="235"/>
    <w:jc w:val="center"/>
  - <w:rPr>
    <w:rFonts w:hAnsi="Arial Black" 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="005143C7">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight"
      w:ascii="Leelawadee UI Semilight" w:eastAsia="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://doi.org/10.5281/zenodo.2567587</w:t>
</w:r>
</w:p>
</w:tr>
</w:tbl>
- <w:p w:rsidP="0066593C" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="01A72568"
  w14:paraId="5D0614B2">
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  - <w:rPr>
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    <w:szCs w:val="18"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00B25126">
  - <w:rPr>
    <w:noProof/>
    <w:lang w:val="en-US" w:eastAsia="fr-FR"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>

```

```

        </w:p>
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    - <w:tc>
        - <w:tcPr>
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            w14:parald="4D54E208">
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            - <w:rPr>
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                    Semilight"/>
                <w:color w:val="auto"/>
                <w:sz w:val="15"/>
                <w:szCs w:val="15"/>
                <w:lang w:val="en-US"/>
            </w:rPr>
        </w:pPr>
        - <w:r w:rsidRPr="00C867C7">
            - <w:rPr>
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                <w:b/>
                <w:bCs/>
                <w:color w:val="auto"/>
                <w:sz w:val="15"/>
                <w:szCs w:val="15"/>
                <w:lang w:val="en-US"/>
            </w:rPr>
            <w:t>Background:</w:t>
        </w:r>
        - <w:r w:rsidRPr="005143C7">
            - <w:rPr>
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                    Semilight"/>
                <w:b/>
                <w:bCs/>
                <w:color w:val="auto"/>
                <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:r w:rsidRPr="005143C7" w:rsidR="0066593C">
            - <w:rPr>
                <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
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                <w:color w:val="auto"/>
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                <w:szCs w:val="15"/>
                <w:lang w:val="en-US"/>
            </w:rPr>
            <w:t>Pomegranate peels are rich in bioactive compounds and could be an alternative natural source such as
                antioxidants.</w:t>
        </w:r>
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            - <w:rPr>
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                <w:color w:val="auto"/>
                <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:r w:rsidRPr="00C867C7">
            - <w:rPr>
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                <w:b/>
                <w:bCs/>
                <w:color w:val="auto"/>
                <w:sz w:val="15"/>
                <w:szCs w:val="15"/>
                <w:lang w:val="en-US"/>
            </w:rPr>
            <w:t>Aims</w:t>
        </w:r>
        - <w:r w:rsidRPr="005143C7">
            - <w:rPr>

```

```

        <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="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">.: </w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
    - <w:rPr>
        <w:color w:val="auto"/>
        <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:r w:rsidRPr="005143C7" w:rsidR="0066593C">
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        <w:color w:val="auto"/>
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    </w:rPr>
    <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="0066593C">
    - <w:rPr>
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        <w:color w:val="auto"/>
        <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="005143C7" w:rsidR="008720F6">
    - <w:rPr>
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        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>assess</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="0066593C">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">the abilities of five solvents to extract phenolic antioxidants from pomegranate peels.</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>
        <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:r w:rsidRPr="00C867C7">
    - <w:rPr>
        <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="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Methods</w:t>

```

```

</w:r>
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    <w:b/>
    <w:bCs/>
    <w:color w:val="auto"/>
    <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:r w:rsidRPr="00C867C7">
  - <w:rPr>
    <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"/>
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    <w:szCs w:val="15"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>and</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
  - <w:rPr>
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    <w:b/>
    <w:bCs/>
    <w:color w:val="auto"/>
    <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:r w:rsidRPr="00C867C7">
  - <w:rPr>
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    <w:b/>
    <w:bCs/>
    <w:color w:val="auto"/>
    <w:sz w:val="15"/>
    <w:szCs w:val="15"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Material</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
  - <w:rPr>
    <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="15"/>
    <w:szCs w:val="15"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
  - <w:rPr>
    <w:color w:val="auto"/>
    <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:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
  - <w:rPr>
    <w:color w:val="auto"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
  - <w:rPr>

```

<w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
 <w:color w:val="auto"/>
 <w:sz w:val="15"/>
 <w:szCs w:val="15"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t xml:space="preserve">Pomegranate peels powder was subjected to extraction and the extraction yield was compared. The total phenolic, flavonoid, condensed and hydrolysable tannins contents were analyzed. </w:t>
 </w:r>
 - <w:r w:rsidR="003E4BC4">
 - <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="15"/>
 <w:szCs w:val="15"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t>The a</w:t>
 </w:r>
 - <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
 - <w:rPr>
 <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
 <w:color w:val="auto"/>
 <w:sz w:val="15"/>
 <w:szCs w:val="15"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t xml:space="preserve">ntioxidant activity of </w:t>
 </w:r>
 - <w:r w:rsidR="002C2A53">
 - <w:rPr>
 <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
 <w:color w:val="auto"/>
 <w:sz w:val="15"/>
 <w:szCs w:val="15"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t xml:space="preserve">the </w:t>
 </w:r>
 - <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
 - <w:rPr>
 <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
 <w:color w:val="auto"/>
 <w:sz w:val="15"/>
 <w:szCs w:val="15"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t>extracts was evaluated by two methods (DPPH* and ABTS++ scavenging capacities) and results were</w:t>
 </w:r>
 - <w:r w:rsidRPr="005143C7" w:rsidR="008720F6">
 - <w:rPr>
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 <w:color w:val="auto"/>
 <w:sz w:val="15"/>
 <w:szCs w:val="15"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t xml:space="preserve"> then</w:t>
 </w:r>
 - <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
 - <w:rPr>
 <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
 <w:color w:val="auto"/>
 <w:sz w:val="15"/>
 <w:szCs w:val="15"/>
 <w:lang w:val="en-US"/>
 </w:rPr>
 <w:t xml:space="preserve"> compared.</w:t>
 </w:r>
 - <w:r w:rsidRPr="005143C7">
 - <w:rPr>
 <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="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"> </w:t>
</w:r>
- <w:r w:rsidRPr="00C867C7">
    - <w:rPr>
        <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="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Results</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
    - <w:rPr>
        <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="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">.: </w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
    - <w:rPr>
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        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Results show</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="008720F6">
    - <w:rPr>
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        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>ed</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
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        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
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        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"> that the mixture methanol/water (50:50) allowed higher extraction yield (37.33±5.3%) than the
    others solvents (P<0.05). Further, the total phenolic, flavonoid and condensed tannins contents were </w:t>
</w:r>
- <w:r w:rsidR="008164BF">
    - <w:rPr>
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        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">the </w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>

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        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">highest in mixture water/methanol (50:50) extract. Phenolic antioxidants showed </w:t>
</w:r>
- <w:r w:rsidR="003E4BC4">
    - <w:rPr>
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        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">a </w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>distinct reducing capacity</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="008720F6">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"> and</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">a high DPPH* inhibition values were recorded for all extracts with no significant differences
    (P>0.05) between ethanol and mixture water/methanol (50:50) extracts. All extracts exhibited high inhibition against
    ABTS++ but with </w:t>
</w:r>
- <w:r w:rsidR="00F70AE0">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>a considerable</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"> variation. Phenolic content and antioxidant activities were well positively correlated with each
    other.</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
    - <w:rPr>
        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
        Semilight"/>
        <w:color w:val="auto"/>
        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>

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        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t xml:space="preserve"></w:t>
    </w:r>
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      <w:bCs/>
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      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Conclusions</w:t>
  </w:r>
  - <w:r w:rsidRPr="005143C7">
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      <w:b/>
      <w:bCs/>
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      <w:szCs w:val="15"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">:</w:t>
  </w:r>
  - <w:r w:rsidRPr="005143C7">
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    </w:rPr>
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  </w:r>
  - <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
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      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Our findings revealed that the choice of the extracting solvent affect</w:t>
  </w:r>
  - <w:r w:rsidR="00F70AE0">
    - <w:rPr>
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      <w:szCs w:val="15"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>s</w:t>
  </w:r>
  - <w:r w:rsidRPr="005143C7" w:rsidR="00FD4DBA">
    - <w:rPr>
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      <w:szCs w:val="15"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">considerably the extraction of phenolic antioxidants from pomegranate peels.</w:t>
  </w:r>
</p>
- <w:p w:rsidP="0066593C" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="3428BB69"
  w14:paraId="4C701FED">
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      Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="15"/>
    <w:szCs w:val="15"/>
    <w:lang w:val="en-US"/>
  </w:rPr>

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    </w:rPr>
  </w:pPr>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
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    <w:iCs/>
    <w:noProof/>
    <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:t xml:space="preserve">Article edited by </w:t>
</w:r>
- <w:r w:rsidR="00FD4DBA">
  - <w:rPr>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    <w:i/>
    <w:iCs/>
    <w:noProof/>
    <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:t>D</w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
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    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">r. </w:t>
</w:r>
- <w:r w:rsidR="00FD4DBA">
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Halima</w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
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    <w:iCs/>
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  </w:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidR="00FD4DBA">
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    <w:sz w:val="15"/>
    <w:szCs w:val="15"/>
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  </w:rPr>
  <w:t>BOUGHELLOUT</w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>

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        <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:i/>
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        <w:noProof/>
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        <w:sz w:val="15"/>
        <w:szCs w:val="15"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve"> and</w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
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    <w:sz w:val="15"/>
    <w:szCs w:val="15"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve"> Dr.</w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
    <w:lang w:val="en-US"/>
  </w:rPr>
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- <w:r w:rsidR="00FD4DBA">
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Farid</w:t>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
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    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
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- <w:r w:rsidR="00FD4DBA">
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</w:r>
</w:p>
</w:tc>
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- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777" w14:paraId="16F757CB">
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- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
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- <w:rPr>
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- <w:rPr>
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  <w:sz w:val="16"/>
  <w:szCs w:val="16"/>
</w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00CD3D56">
- <w:rPr>
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</w:rPr>
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- <mc:Choice Requires="wps">
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- <a:custGeom>

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        - <pic:cNvPicPr>
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                <a:prstClr val="white"/>
              </a:duotone>
            - <a:extLst>
              - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">

```

```

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  </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="131445" cy="131445"/>
    </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>
  </wp:anchor>
  </w:drawing>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56" w:rsidR="0042764D">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" 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:rPr>
    <w:t>* Corresponding author</w:t>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56" w:rsidR="0042764D">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
    </w:rPr>
    <w:t xml:space="preserve"></w:t>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56" w:rsidR="0042764D">
    - <w:rPr>
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      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
    </w:rPr>
    <w:tab/>
    <w:t xml:space="preserve">Tel: </w:t>
  </w:r>
  - <w:r w:rsidRPr="00CF3C87" w:rsidR="00CF3C87">
    - <w:rPr>
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      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
    </w:rPr>
    <w:t>+213 698 39 21 07</w:t>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56" w:rsidR="0042764D">
    - <w:rPr>
      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
    </w:rPr>
    <w:t xml:space="preserve"></w:t>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56" w:rsidR="0042764D">
    - <w:rPr>
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      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
    </w:rPr>
    <w:tab/>
  </w:r>
  - <w:r w:rsidRPr="00CD3D56" w:rsidR="00CD3D56">
    - <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="16"/>
        <w:szCs w:val="16"/>
    </w:rPr>
    <w:t>kennas-a@univ-boumerdes.dz</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="0042764D" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="02607B72"
w14:paraId="7FEC04D4">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="5" w:before="0"/>
    <w:ind w:right="0" w:left="235"/>
    - <w:rPr>
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      <w:b/>
      <w:caps/>
      <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:noProof/>
    </w:rPr>
    - <mc:AlternateContent>
      - <mc:Choice Requires="wps">
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            <wp:simplePos y="0" x="0"/>
            - <wp:positionH relativeFrom="column">
              <wp:posOffset>17780</wp:posOffset>
            </wp:positionH>
            - <wp:positionV relativeFrom="paragraph">
              <wp:posOffset>43487</wp:posOffset>
            </wp:positionV>
            <wp:extent cx="5986145" cy="45085"/>
            <wp:effectExtent r="0" b="0" t="0" l="0"/>
            <wp:wrapNone/>
            <wp:docPr name="Shape 258" id="258"/>
            <wp:cNvGraphicFramePr/>
          - <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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                <wps:cNvSpPr/>
              - <wps:spPr>
                - <a:xfrm>
                  <a:off y="0" x="0"/>
                  <a:ext cx="5986145" cy="45085"/>
                </a:xfrm>
                - <a:custGeom>
                  <a:avLst/>
                  <a:gdLst/>
                  <a:ahLst/>
                  <a:cxnLst/>
                  <a:rect r="0" b="0" t="0" l="0"/>
                - <a:pathLst>
                  - <a:path w="5930891">
                    - <a:moveTo>
                      <a:pt y="0" x="0"/>
                    </a:moveTo>
                    - <a:lnTo>
                      <a:pt y="0" x="5930891"/>
                    </a:lnTo>
                  </a:path>
                </a:pathLst>
                </a:custGeom>
              - <a:ln w="9525" cap="rnd">
                - <a:solidFill>
                  <a:schemeClr val="accent6"/>
                </a:solidFill>
                <a:round/>
              </a:ln>
            </wps:spPr>
          - <wps:style>
            - <a:lnRef idx="1">
              <a:srgbClr val="000000"/>
            </a:lnRef>
            - <a:fillRef idx="0">
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                <a:alpha val="0"/>
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            </a:fillRef>
          </a:graphicData>
        </a:graphic>
      </mc:Choice>
    </mc:AlternateContent>
  </w:r>
</w:p>

```

```

- <a:effectRef idx="0">
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  <a:effectRef>
  <a:fontRef idx="none"/>
</wps:style>
<wps:bodyPr>
</wps:wsp>
</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>
</mc:Choice>
- <mc:Fallback>
- <w:pict>
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b2MueG1sUEsBAi0AFAAGAAgAAAAhALaQrozCAAAABgEAAA8AAAAAAGwQAAGRycy9k
b3ducumV2LnhtbFBLBQYAAAAABAAPMAAACMBQAAAAA= " coordsize="5930891,45085"
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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:text;mso-
position-vertical:absolute;mso-position-vertical-relative:text;mso-width-percent:0;mso-height-percent:0;mso-width-
relative:margin;mso-height-relative:margin;v-text-anchor:top" o:spid="_x0000_s1026" filled="f"
strokecolor="#70ad47 [3209]">
  <v:stroke endcap="round"/>
  <v:path textboxrect="0,0,5930891,45085" arrowok="t"/>
</v:shape>
</w:pict>
</mc:Fallback>
</mc:AlternateContent>
</w:r>
</w:p>
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- <w:pPr>
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- <w:numPr>
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</w:numPr>
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<w:ind w:left="426"/>
- <w:rPr>
  <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
  <w:b/>
  <w:bCs/>
  <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
  <w:sz w:val="20"/>

```

```

        <w:szCs w:val="20"/>
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    </w:pPr>
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    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:noProof/>
      <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
      <w:sz w:val="20"/>
      <w:szCs w:val="20"/>
    </w:rPr>
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          - <wp:positionH relativeFrom="column">
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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">
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                <wps:cNvCnPr/>
                - <wps:spPr>
                  - <a:xfrm>
                    <a:off y="0" x="0"/>
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                  </a:xfrm>
                  - <a:prstGeom prst="line">
                    <a:avLst/>
                    </a:prstGeom>
                    <a:noFill/>
                    - <a:ln w="6350" cap="flat" algn="ctr" cmpd="sng">
                      - <a:solidFill>
                        <a:srgbClr val="70AD47"/>
                      </a:solidFill>
                      <a:prstDash val="solid"/>
                      <a:miter lim="800000"/>
                    </a:ln>
                    <a:effectLst/>
                  </wps:spPr>
                  <wps:bodyPr/>
                </wps:wsp>
              </a:graphicData>
            </a:graphic>
          - <wp14:sizeRelH relativeFrom="margin">
            <wp14:pctWidth>0</wp14:pctWidth>
          </wp14:sizeRelH>
          - <wp14:sizeRelV relativeFrom="margin">
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    </mc:Choice>
  - <mc:Fallback>
    - <w:pict>
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    </w:pict>
  </mc:Fallback>

```

```

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vertical:absolute;mso-position-vertical-relative:text;mso-width-percent:0;mso-height-percent:0;mso-width-
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</v:pict>
</mc:Fallback>
</mc:AlternateContent>
</w:r>
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    <w:t>granatum</w:t>
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    </w:r>
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        <w:szCs w:val="18"/>
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      <w:t>]. Pomegranate has shown an explosion of interest during the last decade and has gained a tremendous popularity, because of its
        numerous health effects [
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    </w:r>
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            <w:sz w:val="18"/>
            <w:szCs w:val="18"/>
        </w:rPr>
        <w:t>several</w:t>
    </w:r>
    - <w:r w:rsidRPr="005143C7" w:rsidR="006A7F38">
        - <w:rPr>

```

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        <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:rPr>
    <w:t xml:space="preserve"> </w:t>
</w:r>
- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
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    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>products such as fish [</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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      <w:szCs w:val="18"/>
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    <w:t>4</w:t>
  </w:r>
</w:hyperlink>
- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
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    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>], bread [</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
  - <w:r w:rsidR="005D7D25">
    - <w:rPr>
      <w:rStyle w:val="Hyperlink"/>
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      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
    </w:rPr>
    <w:t>6</w:t>
  </w:r>
</w:hyperlink>
- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
  - <w:rPr>
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    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>], juice [</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
  - <w:r w:rsidR="005D7D25">
    - <w:rPr>
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      <w:szCs w:val="18"/>
    </w:rPr>
    <w:t>7</w:t>
  </w:r>
</w:hyperlink>
- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
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    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>], yoghurt powder [</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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    - <w:rPr>
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      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
      <w:sz w:val="18"/>

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        <w:szCs w:val="18"/>
      </w:rPr>
      <w:t>8</w:t>
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- <w:r w:rsidRPr="005143C7" w:rsidR="006A7F38">
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    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>]</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="005D7D25">
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    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>,</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="006A7F38">
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  <w:t xml:space="preserve"> etc. This increasing interest is due to the different properties of peel particular</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="0056083D">
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  </w:rPr>
  <w:t>ly</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="006A7F38">
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  </w:rPr>
  <w:t xml:space="preserve"></w:t>
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- <w:r w:rsidRPr="005143C7" w:rsidR="0056083D">
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  </w:rPr>
  <w:t xml:space="preserve">the</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="006A7F38">
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  </w:rPr>
  <w:t xml:space="preserve">antioxidant</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="0056083D">
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  </w:rPr>
  <w:t>ones</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="006A7F38">
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    <w:sz w:val="18"/>

```

```

        <w:szCs w:val="18"/>
      </w:rPr>
      <w:t xml:space="preserve"> Indeed, </w:t>
    </w:r>
  - <w:r w:rsidRPr="005143C7" w:rsidR="0056083D">
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      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
      <w:color w:val="auto"/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
    </w:rPr>
    <w:t xml:space="preserve"> actually </w:t>
  </w:r>
  - <w:r w:rsidRPr="005143C7" w:rsidR="006A7F38">
    - <w:rPr>
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      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
    </w:rPr>
    <w:t>it is well established that pomegranate peel extract ha</w:t>
  </w:r>
  - <w:r w:rsidRPr="005143C7" w:rsidR="0056083D">
    - <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:rPr>
    <w:t>s</w:t>
  </w:r>
  - <w:r w:rsidRPr="005143C7" w:rsidR="006A7F38">
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      <w:szCs w:val="18"/>
    </w:rPr>
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  </w:r>
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      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
    </w:rPr>
    <w:t>[</w:t>
  </w:r>
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      - <w:rPr>
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        <w:szCs w:val="18"/>
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    </w:r>
  </w:hyperlink>
  - <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
    - <w:rPr>
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      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
    </w:rPr>
    <w:t xml:space="preserve"> , </w:t>
  </w:r>
  - <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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        <w:szCs w:val="18"/>
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  </w:hyperlink>
  - <w:r w:rsidR="00CE128D">
    - <w:rPr>

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    <w:t>-</w:t>
</w:r>
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    - <w:rPr>
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      <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
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    </w:rPr>
    <w:t>11</w:t>
  </w:r>
</w:hyperlink>
- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
  - <w:rPr>
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    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve">]. In the work conducted by Li </w:t>
</w:r>
- <w:r w:rsidRPr="0056083D" w:rsidR="006A7F38">
  - <w:rPr>
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    <w:iCs/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>et al.</w:t>
</w:r>
- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
  - <w:rPr>
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    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve">[</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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      <w:szCs w:val="18"/>
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    <w:t>9</w:t>
  </w:r>
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- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
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    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve">] the total phenolics content of peel extract was nearly 10-fold as high as that of pulp extract. Iqbal </w:t>
</w:r>
- <w:r w:rsidRPr="0056083D" w:rsidR="006A7F38">
  - <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="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve">et </w:t>
</w:r>
- <w:r w:rsidRPr="0056083D" w:rsidR="006A7F38">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:i/>

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    <w:lastRenderedPageBreak/>
    <w:t>al.</w:t>
</w:r>
- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
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        <w:color w:val="auto"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
    </w:rPr>
    <w:t xml:space="preserve"> [</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
    - <w:r w:rsidR="0056083D">
        - <w:rPr>
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            <w:szCs w:val="18"/>
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        <w:t>12</w:t>
    </w:r>
</w:hyperlink>
- <w:r w:rsidRPr="006A7F38" w:rsidR="006A7F38">
    - <w:rPr>
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
    </w:rPr>
    <w:t>] recommend pomegranate peel as a potent source of antioxidants for the stabilization of food systems.</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="006A7F38" w:rsidRDefault="006A7F38" w:rsidRPr="006A7F38" w:rsidR="006A7F38" w14:textId="6D0A9A3A"
w14:parald="4C639DB2">
    - <w:pPr>
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        <w:ind w:right="-29" w:left="245" w:firstLine="0"/>
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    </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="005143C7">
    - <w:rPr>
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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
    </w:rPr>
    <w:t xml:space="preserve">One of the main compounds responsible for most of the functional properties of </w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="0056083D">
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    </w:rPr>
    <w:t>numerous</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
    - <w:rPr>
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        <w:color w:val="auto"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
    </w:rPr>
    <w:t xml:space="preserve"> foods </w:t>
</w:r>
- <w:r w:rsidRPr="006A7F38">
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        <w:sz w:val="18"/>

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        <w:szCs w:val="18"/>
    </w:rPr>
    <w:t>are phenolic compounds in any of their forms [</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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        </w:rPr>
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        <w:color w:val="auto"/>
        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
    </w:rPr>
    <w:t>]. Several studies [</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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            <w:szCs w:val="18"/>
        </w:rPr>
        <w:t>14</w:t>
    </w:r>
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        <w:sz w:val="18"/>
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    <w:t xml:space="preserve"></w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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        <w:t>15</w:t>
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    </w:rPr>
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    Polyphenols constitute one of the most </w:t>
</w:r>
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  </w:rPr>
  <w:t>constitute</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
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    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> an integral part </w:t>
</w:r>
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  </w:rPr>
  <w:t>of both human and animal diets [</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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  <w:t>]</w:t>
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  <w:t>.</w:t>
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- <w:r w:rsidRPr="006A7F38">
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  </w:rPr>
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  </w:rPr>
  <w:t>Furthermore, they represent a</w:t>
</w:r>
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    <w:sz w:val="18"/>
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  </w:rPr>

```

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        <w:sz w:val="18"/>
        <w:szCs w:val="18"/>
    </w:rPr>
    <w:t>diverse class of compounds, many of which occur naturally in a range of food plants [</w:t>
    </w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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    </w:rPr>
    <w:t>]. The extraction of phenolics from source materials is the first step involved in their analysis. Therefore, there is a need for
    systematic investigation for sample preparation and for determination of food phenolics [</w:t>
    </w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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        <w:sz w:val="18"/>
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    </w:rPr>
    <w:t>]. The extraction tec</w:t>
    </w:r>
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    </w:rPr>
    <w:t xml:space="preserve">hnology is a key </w:t>
    </w:r>
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    <w:t xml:space="preserve">element </w:t>
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    <w:t xml:space="preserve">for sustainable development of </w:t>
    </w:r>
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            </w:rPr>
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        <w:t xml:space="preserve"> industries [</w:t>
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        </w:rPr>
        <w:t xml:space="preserve">]. Nevertheless, the optimization of the extraction protocol before any qualitative and quantitative study will
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    </w:r>
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    </w:r>
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    </w:rPr>
    <w:t xml:space="preserve"> and temperature of extraction)</w:t>
</w:r>
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            <w:szCs w:val="18"/>
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        <w:t>5</w:t>
    </w:r>
</w:hyperlink>
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- <w:hyperlink w:anchor="_REFERENCES" w:history="1">

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  <w:t>23</w:t>
</w:r>
</w:hyperlink>
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    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve">]. According to Malviya </w:t>
</w:r>
- <w:r w:rsidRPr="0022533F">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:i/>
    <w:iCs/>
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    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>et al</w:t>
</w:r>
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  </w:rPr>
  <w:t>.</w:t>
</w:r>
- <w:hyperlink w:anchor="_REFERENCES" w:history="1">
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    <w:t>21</w:t>
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    <w:szCs w:val="18"/>
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</w:r>
</w:p>
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  </w:rPr>
  <w:t>The objective of th</w:t>
</w:r>

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- <w:r w:rsidRPr="005143C7" w:rsidR="0022533F">
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    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>e current</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> study </w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="0022533F">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>was</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> the extraction of phenols from pomegranate peel (</w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="005143C7">
  - <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="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>Punica</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="005143C7">
  - <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="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> </w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="005143C7">
  - <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="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>granatum</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="005143C7">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> L.) with different solvents in order to find the most </w:t>
</w:r>

```

```

- <w:r w:rsidRPr="005143C7" w:rsidR="0022533F">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>beneficial,</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> in terms of extraction yield, phenolic, flavonoid, hydroly</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7" w:rsidR="0022533F">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>s</w:t>
</w:r>
- <w:r w:rsidRPr="005143C7">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>able and condensed tannins contents, and antioxidant activities.</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00031B1A" w:rsidRDefault="0042764D" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="77777777"
w14:paraId="14FFCAF3">
  - <w:pPr>
    <w:pStyle w:val="Heading1"/>
    - <w:numPr>
      <w:ilvl w:val="0"/>
      <w:numId w:val="30"/>
    </w:numPr>
    <w:spacing w:after="220" w:before="240"/>
    <w:ind w:left="567" w:hanging="283"/>
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
      <w:sz w:val="20"/>
      <w:szCs w:val="20"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:b/>
      <w:bCs/>
      <w:noProof/>
      <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
      <w:sz w:val="20"/>
      <w:szCs w:val="20"/>
    </w:rPr>
    - <mc:AlternateContent>
      - <mc:Choice Requires="wps">
        - <w:drawing>
          - <wp:anchor wp14:editId="7BFE90A7" wp14:anchorId="221E35B1" allowOverlap="1" layoutInCell="1" locked="0"
behindDoc="0" relativeHeight="251669504" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
            <wp:simplePos y="0" x="0"/>
            - <wp:positionH relativeFrom="column">
              <wp:posOffset>172085</wp:posOffset>
            </wp:positionH>
            - <wp:positionV relativeFrom="paragraph">
              <wp:posOffset>345135</wp:posOffset>
            </wp:positionV>
            <wp:extent cx="2711450" cy="0"/>
            <wp:effectExtent r="31750" b="19050" t="0" l="0"/>
            <wp:wrapNone/>
            <wp:docPr name="Straight Connector 7" id="7"/>
          </wp:anchor>
        </w:drawing>
      </mc:Choice>
    </mc:AlternateContent>
  </w:r>
</w:p>

```

```

        <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:cNvCnPr/>
                - <wps:spPr>
                    - <a:xfrm flipV="1">
                        <a:off y="0" x="0"/>
                        <a:ext cx="2711450" cy="0"/>
                    </a:xfrm>
                    - <a:prstGeom prst="line">
                        <a:avLst/>
                        <a:prstGeom/>
                        <a:ln/>
                    </a:prstGeom>
                </wps:spPr>
            - <wps:style>
                - <a:lnRef idx="1">
                    <a:schemeClr val="accent6"/>
                </a:lnRef>
                - <a:fillRef idx="0">
                    <a:schemeClr val="accent6"/>
                </a:fillRef>
                - <a:effectRef idx="0">
                    <a:schemeClr val="accent6"/>
                </a:effectRef>
                - <a:fontRef idx="minor">
                    <a:schemeClr val="tx1"/>
                </a:fontRef>
            </wps:style>
        </wps:wsp>
    </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>
</mc:Choice>
- <mc:Fallback>
    - <w:pict>
        - <v:line id="Straight Connector 7" w14:anchorId="5D3395ED" strokeWeight=".5pt"
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90jcwfiWJU67QAgI6YK0S0CoHGBkTxKLZGx5TGhv5O2G0SRWNoz/78nu9wcxkFMGNg6quQqL6RA
0s5Y6ir5vt9ID1JwBDIwOMJJKHpHlpr69KfdHjyxSmriSfyz+USnWPY7AufNIadK6MEJmX9ApD/oD
OITrorhX2IEilmcO2RdNtjC5xDEF9pCuTyYBB5bi6bQ4syoJ3g9WQ0ymailZg5KdCXIKLjvcW893
SUOQXwnz5DrgnHtJTxOsQfEKIT7DmDSUCaxw7Rqn8787ZsmRM9e2VmPeBN4uqYyTtW7jvi9N/y
JsXecLq0q+WD6m8AAAD//wMAUEsDBBQABgAIAAAAIQA4/SH/1gAAAJQBAAALAAAAAX3JlbHMvLnJl
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JVI2sOt6UJgd+ZiDgffl.8ekFfSbvV0oo4EbChzGx4f9GRdb25HMsYhqlCwG5lrLq9biZkxWOiqY
22YiTra2kYMu1l1tQD30/bPm3wwYN0x18gb45AdQl1tp5j/sFB2T0FQ7R0nTNEV3j6o9feQzro1i
OWA14Fm+Q8a1a8+Bvu/d/dMb2JY5uiPbhG/ktm4cqGU/er3pcvwCAAD//wMAUEsDBBQABgAIAAAAI
QCNljArxAEAANQDAAA0AAAAZHJzL2Uyb0RvYy54bWysU02P0zAQvSPxHyfzaZIKtihquoeu4IKg
YoG71xk3lvylsWnSf8/YSQMChAtiYsUz897Me57s7ydr2AUwau863mxqzsBJ32t37vjinT29evOYs
JuF6YbyDjl8h8vvD82f7MbSw9YM3PSAJEhfbMXR8SCm0VRXIAFbEjQ/gKKk8WpHoiueqRzESuzXV
tq7vqtFjH9BLiJGiD3OSHwq/UiDTB6UiJGY6TrOlcmI5n/JZHfaiPaMlg5bLGOIfprBCO2q6Uj2I
JNhX1L9QWS3RR6/SRnpbeaW0hKKb1DT1T2oeBxGgaCFzYlhtiv+Pvrv6/nJDpvuM7zpyw9ESPCYU+
D4kdvXNkoEe2yz6NlbZUfnQnXG4xnDCLnhRapowOX2gFig0kjE3F5evqMkyJSQpud03z8hU9hrzl
qpkiUwWM6S14y/JHx4122QDRisu7mKgtld5Kcti4HMuTzbOUr3Q1MCc/giJt1HOeqmVwHA2yi6B9
EFKCS3dZG9EaR9UZprQxK7Au3f8IXOozFMrG/Q14RZTO3qUVbLXz+LvuaWqWkdVcf3Ng1p0tePL9
tbxSsYZWpyhc1jzv5o/3Av/+Mx6+AQAA/8DAFBLAwQUAAYACAAAACEAhAzkQ+AAAAAIAQAADwAA
AGRycy9kb3ducwV2LnhtbEYp3UrDQBCF7wXfYRnBm9JuWpNWYjZFBJEi9afmATbJmASzsyG7aVef
3hEv9HL0OZz5TrYNphdHHF1nScFyEYfAqmzdUaOgeLufX4NwXl0te0uo4BMdbPPzs0yntT3RKx4P
vhFcQi7VClrvh1RKV7VotFvYAYm9dzsa7fkCg1mP+sTlpperKFpLzoviD60e8K7F6uMwGQW7zdVX
eAIdkwVxe559vA4m/alUpC4fyGhMfg/8Lwg8/okDNtASeqnegVrDZLTiP4hgE+3ESs1D+CjLP
5P8B+TcAAD//wMAUEsDBAIAAFAAGAAgAAAAhAlaDOJL+AAAA4QEAAABMAAAAAAAAAAAAAAAAAA
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AAAAAAAAAuAgAAZHJzL2Uyb0RvYy54bWxQSwECLQAUAAYACAAAACEAhAzkQ+AAAAAIAQAADwAAAAA
AAAAAAAAAAeBAAAZHJzL2Rvd25yZXUeG1sUEsFBgAAAAEAAQA8wAAACsFAAAAAA== "
style="position:absolute;flip:yz;-index:251669504;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:text;mso-position-
vertical:absolute;mso-position-vertical-relative:text;mso-width-percent:0;mso-height-percent:0;mso-width-
relative:margin;mso-height-relative:margin" o:spid="_x0000_s1026" strokecolor="#70ad47 [3209]"
to="227.05pt,27.2pt" from="13.55pt,27.2pt">
        <v:stroke jointstyle="miter"/>
    </v:line>
</w:pict>

```

```

        </mc:Fallback>
        </mc:AlternateContent>
    </w:r>
    - <w:r w:rsidRPr="00CD3D56">
        - <w:rPr>
            <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
            <w:b/>
            <w:bCs/>
            <w:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
            <w:sz w:val="20"/>
            <w:szCs w:val="20"/>
        </w:rPr>
        <w:t>MATERIAL AND METHODS</w:t>
    </w:r>
</w:p>
- <w:p w:rsidP="0042764D" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="4AE2EC49"
w14:paraId="34197E2E">
    - <w:pPr>
        <w:pStyle w:val="Heading3"/>
        - <w:numPr>
            <w:ilvl w:val="1"/>
            <w:numId w:val="31"/>
        </w:numPr>
        <w:spacing w:lineRule="auto" w:line="240" w:after="120" w:before="160"/>
        <w:ind w:right="-29" w:left="567" w:hanging="283"/>
        <w:jc w:val="left"/>
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT" w:eastAsia="Calibri"/>
            <w:b/>
            <w:bCs/>
            <w:color w:val="000000"/>
            <w:sz w:val="20"/>
            <w:szCs w:val="22"/>
        </w:rPr>
    </w:pPr>
    - <w:r w:rsidRPr="006A7F38">
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT" w:eastAsia="Calibri"/>
            <w:b/>
            <w:bCs/>
            <w:color w:val="000000"/>
            <w:sz w:val="20"/>
            <w:szCs w:val="22"/>
        </w:rPr>
        <w:t>Plant materials</w:t>
    </w:r>
</w:p>
- <w:p w:rsidP="0042764D" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="0AB85844"
w14:paraId="510A8380">
    - <w:pPr>
        <w:spacing w:lineRule="auto" w:line="250" w:after="120" w:before="120"/>
        <w:ind w:right="-29" w:left="245" w:firstLine="0"/>
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
            <w:color w:val="auto"/>
            <w:sz w:val="18"/>
            <w:szCs w:val="18"/>
        </w:rPr>
    </w:pPr>
    - <w:r w:rsidRPr="006A7F38">
        - <w:rPr>
            <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
            <w:color w:val="auto"/>
            <w:sz w:val="18"/>
            <w:szCs w:val="18"/>
        </w:rPr>
        <w:t>Sweet pomegranate fruits (</w:t>
    </w:r>
    <w:proofErr w:type="spellStart"/>
    - <w:r w:rsidRPr="00B41056">
        - <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="auto"/>
            <w:sz w:val="18"/>
            <w:szCs w:val="18"/>
        </w:rPr>
        <w:t>Punica</w:t>
    </w:r>
    <w:proofErr w:type="spellEnd"/>
    - <w:r w:rsidRPr="00B41056">

```

```

- <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="auto"/>
  <w:sz w:val="18"/>
  <w:szCs w:val="18"/>
</w:rPr>
<w:t xml:space="preserve"> </w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="00B41056">
  - <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="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>granatum</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="006A7F38">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> L.) were collected in </w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="006A7F38">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>Bouira</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="006A7F38">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> (Algeria; 36°22'N3°54'E) between October and November. Fruits were washed and manually peeled. Peels
  were air-dried for about 02 weeks in a clean and dry place (temperature: 20-25°C; hygrometry: about 60%). Dry peels (moisture
  content: 8.64±2.94%) were ground and the powder was passed through a 500 </w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="006A7F38">
  - <w:rPr>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>μ</w:t>
</w:r>
- <w:r w:rsidRPr="006A7F38">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t>m</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="006A7F38">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:color w:val="auto"/>
    <w:sz w:val="18"/>
    <w:szCs w:val="18"/>
  </w:rPr>
  <w:t xml:space="preserve"> sieve. The powder was conserved in closed glass bags and kept in the dark in cold conditions (4-6°C) until
  analyses.</w:t>

```

```

    </w:r>
  </w:p>
  - <w:p w:rsidP="0042764D" w:rsidRDefault="006A7F38" w:rsidRPr="00CD3D56" w:rsidR="0042764D" w14:textId="1DCDD130"
    w14:paraId="1B63A8B5">
    - <w:pPr>
      <w:pStyle w:val="Heading3"/>
      - <w:numPr>
        <w:ilvl w:val="1"/>
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```

$$Y = \frac{W_e}{W_p} \times 100 \quad \text{..... (1)}$$

Where

Y

is the extraction Yield (%),

W_e

is the weight of the extract (g)

and

W_p

is the weight of peel (g).

Determination of total phenolic content

Total phenolic content was determined according to Singleton et al.

[24]. Total phenolic content was expressed as gallic acid equivalents in mg per g of dry extract (GAE/g).

Determination of total flavonoid content

The total flavonoid content of the extracts was determined using the aluminium trichloride assay as described by Djeridane et al.

[25]. The results were expressed as quercetin equivalents in μg per mg of dry extract (QE/mg).

Determination of hydrolysable tannins content

Hydrolysable tannins content was determined using the Folin-Ciocalteu assay as described by Djeridane et al.

e
tannins were determined by the method of Willis and Allen [26]. The results were expressed as tannic acid equivalents in mg per g of dry extract (TAE/g).
Determination of condensed tannins content
Condensed tannins content was measured as previously described by Broadhurst and Jones [27]. Results were expressed as mg catechin equivalents per g of dry extract (CE/g).
Antioxidant properties
DPPH radical scavenging activity
The scavenging activity on DPPH radical of different extracts was determined following the method reported by Brand-Williams et al. [28].
The radical scavenging activity (RSA %) was calculated as reported in formula (2):

$$\text{DPPH RSA \%} = \frac{\text{A}_{\text{blank}} - \text{A}_{\text{sample}}}{\text{A}_{\text{blank}}} \times 100 \quad (2)$$

Where
A_{blank} represents the absorption of the DPPH* solution and
A_{sample} represents the absorption of the DPPH* solution after the addition of the sample.
The concentration providing 50% of inhibition (IC₅₀) was investigated by plotting the RSA percentage against PPP extract concentration.
ABTS•+ scavenging ability assay
The 2,2'-azino-bis (3-ethylbenzothiazoline-6-sulfonic acid) (ABTS•+) radical scavenging assay was measured according to the method of Re et al. [29].
The ABTS•+ radical scavenging ability of the sample was calculated by the following equation:

$$\text{ABTS RSA (\%)} = \frac{\text{A}_{\text{blank}} - \text{A}_{\text{sample}}}{\text{A}_{\text{blank}}} \times 100 \quad (3)$$

Where
A_{blank} represents the absorption of the ABTS•+ solution and
A_{sample} represents the absorption of the ABTS•+ solution after the addition of the sample.
Statistical analysis
All tests were run in triplicate. All data were expressed as mean ± standard error of mean. One-way analysis of variance (ANOVA) test for comparisons was performed to determine significant differences ($\alpha = 0.05$) between results using STATISTICA 7.1 (Statsoft Inc, France, 2005). Pearson correlation coefficients were used for the determination of the correlations among means with the same software.

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359740

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RESULTS

Extraction yield

The extraction yield of every solvent is shown on

Figure 1. The statistical analysis of results revealed that the selection

of solvent influences significantly ($P < 0.05$) the extraction yield.

Our

results show

ed

that the mixture water/methanol (50:50) allowed the highest extraction yield ($37.33 \pm 5.3\%$). Methanol and ethanol

provided

similar yield without significant differences, with 27.21 ± 0.47 and $26.20 \pm 0.45\%$, respectively. In the present study, it was observed

that acetone

displayed

the lowest yield ($6.63 \pm 0.71\%$), which

was

approximately 6 times lower than the one recorded for the mixture water/methanol (50:50). This weak yield

allowed

us to predict that acetone is not recommended for the extraction of phenolic compounds from pomegranate peel. However, the nature of phenolic compounds contained in the extract and their antioxidant activity remain the determining elements for solvent choice.

right

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0

Figure 1:

Extraction yield from pomegranate peel in different solvents

Different letters represent statistical different ($P < 0.05$) using the Duncan's multiple range test; W/M (50:50)- water/methanol (50:50)

Water

furnished

an extraction yield of $14.87 \pm 4.42\%$ which is weaker than the mixture water/methanol (50:50), methanol and ethanol solvents.

Moreover, the evaporation of water

took

more time and require

d

more consumption of energy, which reduces its use.

For that reason, some authors advice against using

water

[

15

]

for

phenol

extraction

,

despite

it

s

safe

ty

and

low price

.

Our results are in agreement with previous studies which consider that the choice of solvent

constitutes

a

significant

element during

the extraction of phenolics. Indeed, several works have been documented,

Iqbal

et al

.

[

12

] recommend methanol for the extraction of phenols from pomegranate peel.

In our

situation

, methanol

allowed to obtain

the second highest extraction yield ($27.21 \pm 0.47\%$)

.

However, this solvent

i

s expensive, not safe

,

and requires more precaution measures. Malviya

et al.

[

21

] obtained

the highest yield with the mixture water/ethanol (50:50) and the lowest with water. More recently, Masci et al. [15] estimated that the mixture ethanol: acidified water with acetic acid increases the extraction yield. Whereas, Orak et al. [14] and Singh et al. [22] reported that water offers the highest yield compared to certain organic solvents (ethanol, acetone and methanol). While, Yasoubi et al. [23] reported that acetone provides an extraction yield higher than that obtained with methanol, ethanol or water. The inequality between extraction yields could be explained by the difference between the solubility of phenols among solvents [9].

The mixture usage of solvents, as reported in our experiment, will undoubtedly provide answers in this field and will maximize the extraction yield of phenols and antioxidant molecules. Total phenolic content As can be observed in Table 1, the total phenolic content varied from 242.05 ± 7.99 to 638.17 ± 10.59 mg GAE/g. The statistical analysis clearly revealed that the solvent influences the extraction of phenolics. The total phenolic content in ethanolic and mixture water/ethanol (50:50) extracts were the highest with 638.17 ± 10.59 and 625.525 ± 6.83 mg GAE/g, respectively ($P > 0.05$) followed by acetone (580.43 ± 6.49 mg GAE/g), methanol (472.46 ± 2.39 mg GAE/g), and water (242.05 ± 7.99 mg GAE/g). To the best of our knowledge, this protocol is the first that investigates the mixture of methanol and water (50:50) in the extraction of phenolics from pomegranate peel.

This mixture offered the best extraction yield and, the best phenolic content too, that could be explained by a synergetic effect of water and methanol. According to Li et al.

[9
], the mixture of different solvents (acetone, methanol, water and ethanol) is more powerful in recovering antioxidants from Chinese pomegranate than are individual solvents. Our results are in agreement with those of Singh et al.

[22
] who stated that ethanol gives highest phenolic content than water and acetone. In our study, ethanol offered the possibility to obtain a highly rich extract in phenols ($62.82 \pm 1.06\%$). Wang et al.

[30
] and Malviya et al.

[21
] suggested that water is not recommended for the extraction of polyphenols from pomegranate peel.

Table 1:

Total phenolic, flavonoid, hydroly

s
able tannins and condensed tannins contents of pomegranate peel extracts

Extract
TPC
(mg GAE/g)
TFC
(
 μ
g QE/mg)
HTC
(TAE/g)
C
TC
(
C
E/g)
Eth
anol
 $638.17 \pm$
 10.59
a
 $53.85 \pm$
 1.95
a
 $682.39 \pm$
 5.8
b
 $5.65 \pm$
 1.2
a
Ac
etone
 $580.43 \pm$
 6.49
b
 $42.86 \pm$
 4.1
b
 $796.44 \pm$
 17.4
a
 $2.32 \pm$
 0.37
c
Wat
er
 $242.05 \pm$
 7.99
d
 $11.5 \pm$
 0.54
d
 $127.59 \pm$
 7.73
d
 $2.22 \pm$

0.14
c
Met
hanol
472.46±
2.39
c
32.6±
1.46
c
545.14±
11.6
c
3.99±
0.32
b
Wat
er
/met
-
thanol
(50:50)
625.525±
6.83
a
52.68±
1.97
a
690.12±
13.53
b
6.39±
0.28
a

Values are
expressed as

Mean ± SD of three measurements; values followed by different letters in the same column differ significantly ($P < 0.05$). TPC- Total Phenolic Content; TFC- Total Flavonoid Content; HTC- Hydroly

s
able Tannins Content; CTC- Condensed Tannins Content.

Our results show the high phenolic content of pomegranate peel, which could be an argument for recommendation of its valorization. Indeed, if we take, for example, the phenolic content in mixture water/methanol (50:50), we can deduce, approximately, the high amount of phenolic compounds in peel powder

, which is 23.35±3.61 g GAE/100 g of dry peel.

In spite of the phenolic content fluctuation between extracts, our results were higher than those obtained by other authors

.
Fawole
et al.

[

11

] revealed significant cultivar differences in the levels of phenolic compounds, and reported that the phenolic content of pomegranate fruit peel, ranged between 179.3±4.6 and 295.5±23.91 mg GAE/g.

The variability in total phenolics among studies could be partially attributed to the differences in extraction conditions (powder bulk, agitation speed, extraction time, solid/solvent ration

, e
tc.).

Total flavonoid content

It can be seen from the data in Table

1 that the total flavonoid content of pomegranate peel extracts (

μ
g QE/mg of dry extract) varied from 11.5±0.54 to 53.85±1.95. The statistical analysis revealed that the selection

of solvent affects the extraction of flavonoids. No significant difference ($P > 0.05$) was recorded between ethanolic and mixture water/methanol (50:50) extracts which have the highest levels of flavonoids with 53.85±1.95, 52.68±1.97

μ
g QE/mg, respectively, followed by methanol (32.6±1.46

μ
g QE/mg), acetone (42.86±4.1

μ
g QE/mg) and water (11.5±0.54
μ

g QE/mg). Previous studies focused on the influence of the solvents on the total phenolic content of extract, but to the best of our knowledge, few works have focused on the influence of the solvents

,
selection
on flavonoid extraction.

Orak
et al.

[
14

] reported that methanol
displays
the highest total flavonoid content than water and ethanol.

Hydroly

s

able tannins content

Hydrolysable

tannins contents of various extracts are

summarized

in Table 1

.

L

evels were deduced from the calibration curve generated by tannic acid (R

2

= 0.995). Our results show

ed

that pomegranate peels

were

rich in hydroly

s

able tannins and the extract content was significantly influenced by the solvent choice. Acetone allowed to obtain the highest value of
hydroly

s

able tannins with (796.44±17.4 mg TAE/g). The hydroly

s

able tannins content of ethanol and mixture methanol/water (50:50) extracts was not significantly different ($P>0.05$) with 682.39±5.8
and 690.12±13.53 mg TAE/g, respectively. As this polyphenolic class is quantitatively dominant, aqueous extract

that

offered the lowest phenolic content

,

issued

the lowest hydroly

s

able tannins content (127.59±7.73 mg TAE/g).

Condensed tannins content

Condensed tannins levels are presented in Table 1. As for hydroly

s

able tannins content,

our

results show

ed

that condensed tannins content

was

affected by the extraction solvent. Among the tested solvents, the combination of water and methanol (50:50) offered the highest
amount of condensed tannins with 6.39±0.28 mg CE/g, whereas the lowest was unregistered for aqueous extract (2.22±0.14 mg CE/g).

These results are similar to those reported by a

Tunisian study [

31

]

that

reported amounts around 1.5 to 7.7 mg CE/g, and explained that

extraction method could lead to those

variations

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]

reported that the condensed tannins content of methanol extract was nearly

3-fold as high as that of aqueous extract of pomegranate peels powder. To the best of our knowledge, no studies on the effect of
acetone, ethanol

,

and the mixture water/methanol (50:50)

,

in the extraction of condensed tannins from pomegranate peels

,

have been

conducted

.

O
 ur study was the first
 contributing
 to
 t
 hat finding
 .
 DPPH radical scavenging activity
 The radical-scavenging activity on DPPH* was calculated as the concentration of the extract (μ g/mL) required to inhibit 50% of the initial DPPH free radical (IC₅₀). In this test, when a solution of DPPH* is mixed with that of a substance that can release a hydrogen atom, then this leads to the reduced form with a loss of violet color to be come a residual pale-yellow color. The IC₅₀ of all peel extracts is shown on Figure 2. The pomegranate peel extracts showed strong antioxidant activity. The highest DPPH* scavenging activity was recorded for the ethanolic extract ($76.75 \pm 2.59 \mu$ g/mL) followed by mixture 50% water: 50% methanol ($85.37 \pm 7.05 \mu$ g/mL), methanol ($147.83 \pm 5.03 \mu$ g/mL), acetone ($160.01 \pm 7.28 \mu$ g/mL), and water ($183.71 \pm 8.71 \mu$ g/mL) extracts while, the DPPH* scavenging activity of ascorbic acid, used in this study as a positive control, was lower than peel extracts ($394.87 \pm 17.35 \mu$ g/mL).

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 122331
 0

Figure 2
 :
 DPPH Inhibition activity of pomegranate peels extracts and ascorbic acid

.
 Different letters represent statistical different ($P < 0.05$) using the Duncan's multiple range test; E/M (50:50)- water/methanol (50:50); Asc A- Ascorbic Acid.
 The statistical analysis revealed significant differences ($P < 0.05$) among some solvents. Ethanol and mixture water/methanol (50:50) solvents provided extracts with high inhibitory activity against DPPH radical than methanol, water and acetone extracts. Singh et al
 .
 [22] suggested that the selection of solvents affect the antioxidant activity of extract. ABTS^{•+} scavenging ability
 The ABTS^{•+} radical cation decolorization test constitutes another technique usually used to investigate antioxidant activity [22]. It can be applicable to both lipophilic and hydrophilic antioxidants [29]. The decrease in color at 734nm was observed for all extracts, which indicates that all extracts exhibited ABTS^{•+} radical scavenging activity but in different degrees (Figure 3). These differences are certainly due to the content and quality of the phenols in the different extract [32]. The ethanol extract possessed the highest ABTS^{•+} scavenging activity ($78.92 \pm 1.13\%$) than others extracts ($P < 0.05$), whereas the lowest was observed in the aqueous one.

right
76974
0
0

Figure
3

:

ABTS^{•+} Inhibition activity of pomegranate peels extracts and ascorbic acid

.

Different letters represent statistical different ($p < 0.05$) using the Duncan's multiple range test; W/M (50:50)- water/methanol (50:50); Asc A- Ascorbic Acid.

The ABTS^{•+} scavenging activities of extracts are in the order: ethanol > mixture water/methanol (50:50) > acetone > methanol > water. As for DPPH assay, pomegranate peel extracts showed higher ABTS^{•+} scavenging activity than ascorbic acid. These results were consistent with others previously published studies

.

Malviya
et al.

[

21

] reported that ethanol extract showed higher ABTS^{•+} scavenging capacity than methanol and water extracts.

Elfalleh

et al.

[

32

] observed that methanol extracts showed stronger antioxidant activities than the water ones

.

Correlation study

The results of the correlational analysis are
summarized

in

Table

2. The results

show

highly

significant ($r = 0.99$, $P < 0.05$) correlation between phenolic and flavonoid contents that agree with those obtained

by

Masci

et al.

. [

15

] who reported a high positive correlation (R

=0.89) between

total phenolic and total flavonoid contents in pomegranate peels.

Moreover

, there was a high positive relation

ship

(

R

=0.95, $P < 0.05$) between total phenolic and hydroly

s

able tannins content

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T

his is

comparable

to

several studies

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20

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31

,

32

]

that

reported proportion of hydroly

s

able

tannins in the pomegranate peels extracts

that

constituted a high amount of the total phenolics.

Table

2

:

Correlation matrix between polyphenol compositions and antioxidant activity

TPC

TFC

HTC

CTC

DPPH
 RSA
 TPC
 inhibition
 TPC
 1.00
 0.99**
 0.95**
 0.68
 -0.80
 0.84
 TFC
 -
 1.00
 0.90**
 0.75
 -0.87
 0.88**
 HTC
 -
 -
 1.00
 0.44
 -0.58
 0.69
 CTC
 -
 -
 -
 1.00
 -0.95**
 0.65
 DPPH RSA
 -
 -
 -
 -
 1.00
 -0.85
 ABTS•+ inhibition
 -
 -
 -
 -
 -
 1.00

R
 esults
 are
 expressed as correlation coefficients (r); ** Significant at $P < 0.05$. TPC- Total Phenolic Content; TFC- Total Flavonoid Content; HTC-
 Hydroly
 s
 able Tannins Content; CTC- Condensed Tannins Content.
 In pomegranate peels powder extract, hi
 gh linear
 correlations
 were observed between the DPPH RSA
 and
 phenolic content (
 R
 =-0.80, $P > 0.05$), and total flavonoid content (
 R
 =-0.87, $P > 0.05$)
 .
 On the other hand, no significant correlations were observed between the DPPH inhibition and hydrolysable tannins content (
 R
 =-0.58).
 Unexpectedly
 , strong positive correlation (
 R
 =-0.94, $P < 0.05$)
 was observed
 between DPPH RSA and condensed tannins contents. The tendency of either hydrolysable or condensed tannins or of flavonoids to act
 as antioxidants, or to exhibit antimicrobial features
 ,
 are governed by their chemical structures [
 33
]
 .
 It should be noticed
 that most antioxidant compounds display distinct
 reducing capacity

[33]
 . In our situation, this result could be explained by the fact that the condensed tannins compounds contained in pomegranate peel extracts display high antioxidant capacity. A highly positive correlation ($R = 0.84$, $P > 0.05$) was found between ABTS^{•+} scavenging capacity and total phenolic content. Another significant correlation ($R = 0.88$, $P < 0.05$) are found between total flavonoid content and ABTS^{•+} scavenging capacity, which indicates that flavonoid, are antioxidant compounds that respond positively to ABTS^{•+} assay. Moreover, DPPH RSA was highly correlated with ABTS^{•+} RSA ($R = -0.85$, $P > 0.05$).
 . This could confirm that the compounds which scavenge DPPH radical in the pomegranate peel extracts were also able to scavenge ABTS radical.

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CONCLUSION

S
 In the current study, the effectiveness of five solvents, to extract phenolic compounds from pomegranate peels powder, was assessed. The mixture water/methanol (50:50) allowed obtaining the highest extraction yield. A higher phenolic, flavonoid, condensed tannins contents in extract, were obtained with the mixture water/methanol (50:50), and ethanol than other solvent. This research supports that pomegranate peels extracts have a considerable antioxidant capacity (DPPH and ABTS RSA). In addition, the antioxidant activities showed a marked correlation with the total phenolic, flavonoid, and tannins contents. Our findings may be used as starting point for improving protocols when utilizing solvent extraction of phenolics. However, further studies should emphasize on the effect of the mixture of solvents such as ethanol/water (50:50) and acetone/water (50:50) on the extraction of phenolic antioxidants from pomegranate peel. As well as, studies on the phenolic compounds contained in each extract are recommended.

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