

```

<?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:cx5="http://schemas.microsoft.com/office/drawing/2016/5/11/chartex"
        xmlns:cx4="http://schemas.microsoft.com/office/drawing/2016/5/10/chartex"
        xmlns:cx3="http://schemas.microsoft.com/office/drawing/2016/5/9/chartex"
        xmlns:cx2="http://schemas.microsoft.com/office/drawing/2015/10/21/chartex"
        xmlns:cx1="http://schemas.microsoft.com/office/drawing/2015/9/8/chartex" xmlns:cx="http://schemas.microsoft.com/office/drawing/2014/chartex"
        xmlns:wpc="http://schemas.microsoft.com/office/word/2010/wordprocessingCanvas">
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            w14:paraId="72AA69C7">
            - <w:pPr>
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              <w:ind w:right="0" w:left="235"/>
              <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:color w:val="385623" w:themeShade="80" w:themeColor="accent6"/>
              <w:sz w:val="16"/>
              <w:szCs w:val="16"/>
            </w:rPr>
          </w:pPr>
          <w:bookmarkStart w:name="_GoBack" w:id="0"/>
          <w:bookmarkEnd w:id="0"/>
          - <w:r w:rsidRPr="00CD3D56">
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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:t>The North African Journal of Food and Nutrition Research: (2019) 03; (05): 14</w:t>
          </w:r>
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              <w:szCs w:val="16"/>
            </w:rPr>
            <w:t>8</w:t>
          </w:r>
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              <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>-1</w:t>
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          - <w:r w:rsidR="00CA3862">

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- <w:p w:rsidP="00D41325" w:rsidRDefault="00D41325" w:rsidRPr="00CD3D56" w:rsidR="00D41325" w14:textId="45539E04"
w14:parId="0EA8DEB3">
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    <w:sz w:val="16"/>
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</w:pPr>
- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
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  </w:rPr>
  - <w:drawing>
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relativeHeight="251671552" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
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      - <wp:positionV relativeFrom="paragraph">
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      </wp:positionV>
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      <wp:effectExtent r="3810" b="0" t="0" l="0"/>
      <wp:wrapNone/>
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        <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
      </wp:cNvGraphicFramePr>
      - <a:graphicData xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
        - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
          - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
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              - <pic:cNvPicPr>
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              </pic:cNvPicPr>
            </pic:nvPicPr>
            - <pic:blipFill>
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                - <a:extLst>
                  - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
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xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
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                </a:extLst>
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              - <a:stretch>
                <a:fillRect/>
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            </pic:blipFill>
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              </a:xfrm>
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              </a:prstGeom>
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            w:eastAsia="Leelawadee UI Semilight"/>
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        <w:sz w:val="16"/>
        <w:u w:val="single" w:color="0563C1"/>
    </w:rPr>
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</w:r>
- <w:r w:rsidRPr="008C2795" w:rsidR="008C2795">
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    <w:t>10.5281/zenodo.2584087</w:t>
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    </w:r>
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            <w:sz w:val="24"/>
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        - <w:rPr>
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        - <w:rPr>
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  - <w:rPr>
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    <w:spacing w:val="20"/>
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  </w:rPr>
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- <w:r w:rsidRPr="00CD3D56">
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  </w:rPr>
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- <w:r w:rsidRPr="00CD3D56">
  - <w:rPr>
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    <w:sz w:val="24"/>
  </w:rPr>
  <w:tab/>
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</w:p>
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  - <w:rPr>
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  </w:rPr>
- <mc:AlternateContent>
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    - <w:drawing>
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        </wp:positionH>
        - <wp:positionV relativeFrom="paragraph">
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        </wp:positionV>
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        <wp:effectExtent r="635" b="6985" t="0" l="0"/>
        <wp:wrapNone/>
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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:cNvSpPr/>
            - <wps:spPr>
              - <a:xfrm>
                <a:off y="0" x="0"/>
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              </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>

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```

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- <a:lnTo>
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- <a:lnTo>
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</a:pathLst>
</a:custGeom>
- <a:ln w="0" cap="flat">
  <a:miter lim="127000"/>
</a:ln>
</wps:spPr>
- <wps:style>
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- <mc:Fallback>
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horizontal:absolute;mso-position-horizontal-relative:page;mso-position-vertical:absolute;mso-position-vertical-
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      <v:stroke joinstyle="miter" miterlimit="83231f"/>
    
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</mc:AlternateContent>
</w:r>
- <w:r w:rsidRPr="00CD3D56">
    - <w:rPr>
        <w:noProof/>
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    - <mc:AlternateContent>
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                    - <wp:positionV relativeFrom="paragraph">
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                    </wp:positionV>
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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:spPr>
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                                - <a:custGeom>
                                    <a:avLst/>
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                                    <a:ahLst/>
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                                    <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"/>
                                        </a:moveTo>
                                        - <a:lnTo>
                                            <a:pt y="0" x="5981426"/>
                                        </a:lnTo>
                                        - <a:lnTo>
                                            <a:pt y="12192" x="5981426"/>
                                        </a:lnTo>
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                                            <a:pt y="12192" x="0"/>
                                        </a:lnTo>
                                        - <a:lnTo>
                                            <a:pt y="0" x="0"/>
                                        </a:lnTo>
                                    </a:path>
                                </a:pathLst>
                                <a:custGeom>
                                    - <a:ln w="0" cap="flat">
                                        <a:miter lim="127000"/>
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                                </a:custGeom>
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        </mc:AlternateContent>
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</w:rPr>
</w:r>
</w:bodyPr>

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        </wps:wsp>
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</mc:Choice>
- <mc:Fallback>
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      AC8BAABfcmVscy8ucmVsc1BLAQItABQABgAIAAAAIQAjCv4gNwIAACgFAAAOAAAAAAAAAAAAAAAAA
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      AAAAAJEEAABkcnMvZG93bnJldi54bWxQSwUGAAAAAAQABADzAAAAmQUAAAAAA "
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      relative:text;text-align:center;text-decoration:underline;text-decoration-color:blue;text-decoration-line:underline;
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    <w:b/>
    <w:noProof/>
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    <w:sz w:val="30"/>
    <w:szCs w:val="30"/>
  </w:rPr>
  - <mc:AlternateContent>
    - <mc:Choice Requires="wps">
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          distT="45720">
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          </wp:positionV>
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          <wp:wrapNone/>
          <wp:docPr name="Text Box 2" id="217"/>
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          - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">

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    </wps:cNvSpPr>
    - <wps:spPr bwMode="auto">
      - <a:xfrm>
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        <a:ext cx="1155622" cy="252442"/>
      </a:xfrm>
      - <a:prstGeom prst="rect">
        <a:avLst/>
      </a:prstGeom>
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        <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>
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        w:rsidR="00357972" w14:textId="77777777" w14:paraId="5FE67C14">
        - <w:pPr>
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          <w:jc w:val="right"/>
        - <w:rPr>
          <w:b/>
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          <w:color w:val="538135" w:themeShade="BF" w:themeColor="accent6"/>
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        </w:rPr>
        <w:pPr>
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        - <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>elSSN</w:t>
        </w:r>
        <w:proofErr w:type="spellEnd"/>
        - <w:r w:rsidRPr="00073AAE">
          - <w:rPr>
            <w:b/>
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            <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>
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    </wps:txbx>
    - <wps:bodyPr anchorCtr="0" anchor="t" bIns="45720" rIns="91440" tIns="45720" lIns="91440"
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      <a:noAutofit/>
    </wps:bodyPr>
  </wps:wsp>
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</a:graphic>
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- <wp14:sizeRelV relativeFrom="margin">
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</wp14:sizeRelV>
</wp:anchor>
</w:drawing>
</mc:Choice>
- <mc:Fallback>
  - <w:pict>
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      coordsize="21600,21600" o:spt="202">
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  </w:pict>

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style:square;mso-width-percent:0;mso-height-percent:0;mso-wrap-distance-left:9pt;mso-wrap-distance-
top:3.6pt;mso-wrap-distance-right:9pt;mso-wrap-distance-bottom:3.6pt;mso-position-horizontal:absolut;mso-
position-horizontal-relative:margin;mso-position-vertical:absolut;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"
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- <v:textbox>
- <v:txbxContent>
- <w:p w:rsidP="00D41325" w:rsidRDefault="00357972" w:rsidRPr="00073AAE" w:rsidR="00357972"
w14:textId="77777777" w14:paraId="5FE67C14">
- <w:pPr>
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<w:jc w:val="right"/>
- <w:rPr>
<w:b/>
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- <w:r w:rsidRPr="00073AAE">
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- <w:r w:rsidRPr="00073AAE">
- <w:rPr>
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</w:rPr>
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</v:txbxContent>
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</v:shape>
</w:pict>
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</w:r>
- <w:r w:rsidRPr="00CD3D56">

```

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- <w:drawing>
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      <wp:posOffset>141399</wp:posOffset>
    </wp:positionH>
    - <wp:positionV relativeFrom="paragraph">
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    </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"/>
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    </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>
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  </w:rPr>
  - <mc:AlternateContent>
    - <mc:Choice Requires="wpg">

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- <w:drawing>
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    <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:wgp>
        <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:txbx>
      - <w:txbxContent>
        - <w:p w:rsidP="00D41325" w:rsidRDefault="00357972" w:rsidR="00357972"
          w14:textId="77777777" w14:paraId="4809DAC0">
          - <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"
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  </wps:bodyPr>
</wps:wsp>
- <wps:wsp>
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  <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="00D41325" w:rsidRDefault="00357972" w:rsidR="00357972"
      w14:textId="77777777" w14:paraId="22A71E3C">
      - <w:pPr>
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        <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"/>
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      <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"
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- <wps:wsp>
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    - <a:ln>
      <a:noFill/>
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  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
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        <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>
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- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
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- <wps:wsp>
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  - <wps:spPr>
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    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
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      w:rsidR="00357972" w14:textId="77777777" w14:paraId="03CE8D41">
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    </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>
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    </w:r>
  </w:p>
  </w:txbxContent>
</wps:txbx>

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        </w:r>
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  <wps:cNvSpPr/>
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    </a:xfrm>
    - <a:prstGeom prst="rect">
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    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00D41325" w:rsidRDefault="00357972" w:rsidR="00357972"
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        <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>
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- <wps:wsp>
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  <wps:cNvSpPr/>
  - <wps:spPr>
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      <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">
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            <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>
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          </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>

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        </a:schemeClr>
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            </a:lnRef>
            - <a:fillRef idx="1">
                <a:srgbClr val="F2F2F2"/>
            </a:fillRef>
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            </a:effectRef>
            <a:fontRef idx="none"/>
        </wps:style>
    </wps:bodyPr>
</wps:wsp>
- <wps:wsp>
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    - <wps:spPr>
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            <a:off y="697360" x="1835110"/>
            <a:ext cx="2933739" cy="168235"/>
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        - <a:prstGeom prst="rect">
            <a:avLst/>
        </a:prstGeom>
        - <a:ln>
            <a:noFill/>
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    </wps:spPr>
    - <wps:txbx>
        - <w:txbxContent>
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                </w:rPr>
            </w:pPr>
            - <w:r w:rsidRPr="00B409E3">
                - <w:rPr>
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                </w:rPr>
                <w:t xml:space="preserve">Journal homepage:</w:t>
            </w:r>
            - <w:hyperlink rid="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:txbxContent>
    </wps:txbx>
    - <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
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        <a:noAutofit/>
    </wps:bodyPr>
</wps:wsp>
- <wps:wsp>
    <wps:cNvPr name="Rectangle 246" id="246"/>
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    - <wps:spPr>

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- <a:xfrm>
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- <a:prstGeom prst="rect">
  <a:avLst/>
</a:prstGeom>
- <a:ln>
  <a:noFill/>
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</wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
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      w14:textId="77777777" w14:paraId="652717E4">
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        <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>
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      <a:ext cx="42144" cy="186477"/>
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    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
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- <wps:txbx>
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        <w:jc w:val="left"/>
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      - <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">
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</wps:bodyPr>
</wps:wsp>
</wpg:wgp>
</a:graphicData>
</a:graphic>
</wp:inline>
</w:drawing>
</mc:Choice>
- <mc:Fallback>
  - <w:pict>
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      0s5Y6ir5vt9ID1JwBDIwOMJKHpHlpr69KfdHjyxSmriSfYz+USnWPY7AufNIadK6MEJMX9ApD/oD
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```

```

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    - <w:rPr>
      <w:rFonts w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
      <w:color w:val="000000" w:themeColor="text1"/>
      <w:vertAlign w:val="superscript"/>
    </w:rPr>
    <w:t>2</w:t>
  </w:r>
  - <w:r>
    - <w:rPr>
      <w:rFonts w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
      <w:color w:val="000000" w:themeColor="text1"/>
    </w:rPr>
    <w:t xml:space="preserve">,</w:t>
  </w:r>
  - <w:r w:rsidRPr="00CA3862">
    - <w:rPr>
      <w:rFonts w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
      <w:color w:val="000000" w:themeColor="text1"/>
    </w:rPr>
    <w:t>Francesco C</w:t>
  </w:r>
  - <w:r>
    - <w:rPr>
      <w:rFonts w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
      <w:color w:val="000000" w:themeColor="text1"/>
    </w:rPr>
    <w:t>APONIO</w:t>
  </w:r>
  - <w:r w:rsidR="00CE6090">
    - <w:rPr>
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      <w:color w:val="000000" w:themeColor="text1"/>
    </w:rPr>
    <w:t xml:space="preserve"></w:t>
  </w:r>
  - <w:r w:rsidR="00CE6090">
    - <w:rPr>
      <w:rFonts w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
      <w:color w:val="000000" w:themeColor="text1"/>
      <w:vertAlign w:val="superscript"/>
    </w:rPr>
    <w:t>3</w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="00D41325" w:rsidRDefault="00D41325" w:rsidRPr="00CD3D56" w:rsidR="00D41325" w14:textId="77777777"
  w14:paraId="3D30AB54">
  - <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: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="00CE6090" w:rsidRDefault="005B392E" w:rsidR="00CE6090" w14:textId="77777777" w14:paraId="6BFDCA8F">
  - <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: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="005B392E">
  - <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:vertAlign w:val="superscript"/>
  </w:rPr>
  <w:t>1</w:t>
</w:r>
- <w:r>
  - <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"></w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="00CA3862" w:rsidR="00CA3862">
  - <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>Université</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="00CA3862" w:rsidR="00CA3862">
  - <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"> Frères </w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="00CA3862" w:rsidR="00CA3862">
  - <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>Mentouri</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="00CA3862" w:rsidR="00CA3862">
  - <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"> Constantine</w:t>
</w:r>
- <w:r w:rsidR="00CE6090">
  - <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"></w:t>
</w:r>

```



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- <w:r w:rsidRPr="00CA3862" w:rsidR="00CA3862">
  - <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>1</w:t>
</w:r>
- <w:r w:rsidR="00CE6090">
  - <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>.</w:t>
</w:r>
- <w:r w:rsidR="00CA3862">
  - <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"></w:t>
</w:r>
- <w:r>
  - <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">MC1.</w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="005B392E">
  - <w:rPr>
    <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
    <w:bCs/>
    <w:sz w:val="16"/>
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  </w:rPr>
  <w:t>Laboratoire</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="005B392E">
  - <w:rPr>
    <w:rFonts w:hAnsiTheme="majorHAnsi" w:asciiTheme="majorHAnsi" w:cstheme="majorHAnsi"/>
    <w:bCs/>
    <w:sz w:val="16"/>
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  </w:rPr>
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</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="005B392E">
  - <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>Biotechnologie</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="005B392E">
  - <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">et</w:t>
</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="005B392E">
  - <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>Qualité</w:t>
  </w:r>
  <w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="005B392E">
  - <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"> des Aliments (BIOQUAL)</w:t>
</w:r>
- <w:r w:rsidR="00CE6090">
  - <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:p w:rsidP="00CE6090" w:rsidRDefault="00CE6090" w:rsidRPr="00CD3D56" w:rsidR="00CE6090" w14:textId="27460FDC"
w14:paraId="3D64BC93">
  - <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: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="00CE6090">
  - <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:vertAlign w:val="superscript"/>
  </w:rPr>
  <w:t>2</w:t>
</w:r>
- <w:r>
  - <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"></w:t>
</w:r>
- <w:r w:rsidRPr="00CE6090">
  - <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>Department of Soil, Plant and Food Sciences, Food Science and Technology section,</w:t>
</w:r>
- <w:r>
  - <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"></w:t>
</w:r>
- <w:r w:rsidRPr="00CE6090">
  - <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>University of Bari Aldo Moro, Via Amendola 165/A – 70126, Bari, ITALY</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="00D41325" w14:textId="77777777" w14:paraId="545F3441" w:rsidTr="005B392E">
    - <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="005B392E" w:rsidRDefault="00D41325" w:rsidRPr="00CD3D56" w:rsidR="00D41325" w14:textId="77777777" w14:paraId="33F7FA07">
        - <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:pPr>
        <w:rPr>
          <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
          <w:b/>
          <w:bCs/>
        </w:rPr>
      </w:p>
    </w:tc>
    - <w:p w:rsidP="005B392E" w:rsidRDefault="00D41325" w:rsidRPr="00CD3D56" w:rsidR="00D41325" w14:textId="77777777" w14:paraId="4B3FB4A3">
      - <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:pPr>
      <w:rPr>
        <w:rFonts w:cs="Times New Roman" w:hAnsi="Times New Roman" w:ascii="Times New Roman"/>
      </w:rPr>
    </w:p>
    - <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:tcPr>

```

```

        <w:vAlign w:val="bottom"/>
    </w:tcPr>
    - <w:p w:rsidP="005B392E" w:rsidRDefault="00D41325" w:rsidRPr="00CD3D56" w:rsidR="00D41325" w14:textId="77777777"
      w14:paraId="66019FBD">
      - <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:pPr>
      - <w:r w:rsidRPr="00CD3D56">
        <w:t xml:space="preserve"></w:t>
      </w:r>
    </w:p>
  </w:tc>
  - <w:tbl>
    - <w:tblPr>
      <w:tblW w:w="1424" w:type="dxa"/>
      - <w:tblBorders>
        <w:top w:val="nil"/>
        <w:left w:val="nil"/>
        <w:bottom w:val="nil"/>
        <w:right w:val="nil"/>
      </w:tblBorders>
    </w:tblPr>
    - <w:p w:rsidP="005B392E" w:rsidRDefault="00D41325" w:rsidRPr="00CD3D56" w:rsidR="00D41325" w14:textId="77777777"
      w14:paraId="6759FD49">
      - <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="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: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:tbl>
</w:tr>
</w:tbl>
- <w:tbl>
  - <w:tblPr>
    <w:tblStyle w:val="TableGrid0"/>
    <w:tblPr 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: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>December</w:t>
</w:r>
- <w:r w:rsidRPr="00775D2F">
    - <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"> 2018 </w:t>
</w:r>
</w:p>
- <w:p w:rsidP="005B392E" w:rsidRDefault="00D41325" w:rsidRPr="00775D2F" w:rsidR="00D41325" w14:textId="5F6825C6"
w14:parId="6D733D96">
    - <w:pPr>
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        Semilight"/>
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        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
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</w:pPr>
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        Semilight"/>
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        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
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</w:r>
- <w:r w:rsidRPr="00775D2F" w:rsidR="003D7CD4">
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        Semilight"/>
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        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
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    <w:t>15</w:t>
</w:r>
- <w:r w:rsidRPr="00775D2F">
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        Semilight"/>
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        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
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</w:r>
- <w:r w:rsidRPr="00775D2F" w:rsidR="003D7CD4">
    - <w:rPr>
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        Semilight"/>
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        <w:lang w:val="en-US"/>
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    <w:t>February</w:t>
</w:r>
- <w:r w:rsidRPr="00775D2F">
    - <w:rPr>
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        Semilight"/>
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```

```

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        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
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    </w:pPr>
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      - <w:rPr>
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        <w:lang w:val="en-US"/>
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    </w:r>
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    </w:r>
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      <w:t xml:space="preserve"></w:t>
    </w:r>
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      <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>
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        <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
        <w:b/>
        <w:bCs/>
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```



```

        <w:lang w:val="en-US"/>
      </w:rPr>
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  w14:paraId="08D5D516">
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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="00775D2F">
  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
      Semilight"/>
    <w:i/>
    <w:iCs/>
    <w:sz w:val="14"/>
    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t>Quercus ilex</w:t>
</w:r>
- <w:r w:rsidRPr="00775D2F">
  - <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 xml:space="preserve">L.</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="005B392E" w:rsidRDefault="00812D60" w:rsidRPr="00775D2F" w:rsidR="00D41325" w14:textId="646DA2EC"
  w14:paraId="0E5C59CD">
  - <w:pPr>
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  - <w:rPr>
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  </w:rPr>
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- <w:r w:rsidRPr="00775D2F">
  - <w:rPr>
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    <w:iCs/>
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</w:r>
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- <w:r w:rsidRPr="00775D2F">
  - <w:rPr>
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    <w:iCs/>
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- <w:r w:rsidRPr="00775D2F">
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    <w:sz w:val="14"/>
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">L.</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="005B392E" w:rsidRDefault="00082D21" w:rsidRPr="00775D2F" w:rsidR="00D41325" w14:textId="014C40EA"
  w14:paraId="07EDD8C8">
  - <w:pPr>
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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
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    <w:sz w:val="14"/>
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- <w:r w:rsidRPr="00775D2F">
  - <w:rPr>
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  <w:t>T</w:t>
</w:r>
- <w:r w:rsidRPr="00775D2F" w:rsidR="00812D60">
  - <w:rPr>
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    <w:bCs/>
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</w:r>
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- <w:p w:rsidP="005B392E" w:rsidRDefault="00082D21" w:rsidRPr="00775D2F" w:rsidR="00812D60" w14:textId="52A295E2"
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  - <w:rPr>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI
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    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
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</w:pPr>
- <w:r w:rsidRPr="00775D2F">
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  </w:rPr>
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</w:r>
- <w:r w:rsidRPr="00775D2F" w:rsidR="00812D60">
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    <w:szCs w:val="14"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:t xml:space="preserve">otal flavonoid</w:t>

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    </w:p>
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          <w:jc w:val="left"/>
        - <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>A</w:t>
    </w:r>
    - <w:r w:rsidRPr="00775D2F" w:rsidR="00D41325">
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        <w:sz w:val="14"/>
        <w:szCs w:val="14"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t xml:space="preserve">activity</w:t>
    </w:r>
  </w:p>
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    - <w:tblPr>
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        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="00775D2F" w:rsidR="00D41325" w14:textId="77777777" w14:paraId="41A478D4" w:rsidTr="005B392E">
      - <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="005B392E" w:rsidRDefault="00D41325" w:rsidRPr="00775D2F" w:rsidR="00D41325"
          w14:textId="77777777" w14:paraId="46B8FBE6">
          - <w:pPr>
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            <w:autoSpaceDN w:val="0"/>
            <w:adjustRightInd w:val="0"/>
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            <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"/>
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            <w:bCs/>

```

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        <w:lang w:val="en-US"/>
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  - <w:r w:rsidRPr="00775D2F">
    - <w:rPr>
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        New Roman"/>
      <w:b/>
      <w:bCs/>
      <w:color w:val="FFFFFF" w:themeColor="background1"/>
      <w:sz w:val="14"/>
      <w:szCs w:val="24"/>
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    </w:rPr>
    <w:t>Access this article online</w:t>
  </w:r>
</w:p>
</w:tc>
- <w:tr w:rsidRPr="00775D2F" w:rsidR="00D41325" w14:textId="77777777" w14:paraId="00F4CBE4" w:rsidTr="005B392E">
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  </w:trPr>
  - <w:tc>
    - <w:tcPr>
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    </w:tcPr>
    - <w:p w:rsidP="005B392E" w:rsidRDefault="00D41325" w:rsidRPr="00775D2F" w:rsidR="00D41325"
      w14:textId="77777777" w14:paraId="5DBC216C">
      - <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="00775D2F">
      - <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>
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      </w:r>
    - <w:r w:rsidRPr="00775D2F">
      - <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>
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    </w:p>
  </w:tc>
</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="005B392E" w:rsidRDefault="00D41325" w:rsidRPr="00775D2F" w:rsidR="00D41325"
    w14:textId="77777777" w14:paraId="155B2638">
    - <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>
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      <w:b/>
      <w:bCs/>
      <w:sz w:val="18"/>
      <w:szCs w:val="18"/>
      <w:lang w:val="en-US"/>
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  </w:pPr>
</w:tc>

```

```

- <w:r w:rsidRPr="00775D2F">
  - <w:rPr>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    <w:b/>
    <w:bCs/>
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    <w:szCs w:val="18"/>
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Aim

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Th

e current

study was undertaken to

determine

the total phenolic and flavonoid contents and to

assess

the antioxidant activity of two different extracts (flour and oil) of two Algerian Quercus species,

Quercus ilex

L. and

Quercus

suber

L.

Methods and Material:

The oil extraction of the two species was achieved using the Soxhlet method. The obtained extracts were estimated for the chemical and physical constants (acidity, peroxide value, iodine value

,

and ultraviolet absorption indices). Total phenolic content was

measured

by

spectrophotometr

y

according to the

Folin-Ciocalteu

procedure and calculated as gallic acid equivalents (GAE). The studied extracts were submitted to an estimation of their flavonoid contents

too

,

using aluminum chloride methods. Antioxidant ability was assessed by means

of

two

distinct

methods (DPPH• and ABTS•+).

Results:

The obtained results revealed that antioxidant properties, total phenolic

,

and total flavonoid contents differed significantly among selected species and extracts.

The f

lour samples possessed the highest level of total phenolic contents (1101–1464 mg GAE/kg dry weight) and exhibited the highest antioxidant capacities with average values of 52.62–40.78

μ

mol

TE g

–l

dry weight and 36.19–44.50

μ

mol

TE g

–l

dry weight for DPPH and ABTS assays, respectively. Acorn oil extracts showed also remarkable antioxidant activity, up to 2.69 and 3.23

μ

mol

TE g

–l

oil (DPPH and ABTS test, respectively), even though the total phenolic contents were low (195.64–322.06 mg GAE /kg of oil). Total phenolic amounts were positively correlated with

the

antioxidant properties of Quercus flour and oil.

Conclusions:

Our

study provides basic information on the presence of bioactive compounds and antioxidant capacity in acorn fruits, in order to consider their extracts as functional food ingredients and potential source of natural antioxidants.

Article edited by Dr. Bachir BENARBA and
Dr.
Hocine
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barkat.inataa@yahoo.fr

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INTRODUCTION

Oxidative stress is defined as an imbalance between the production of reactive oxygen species (ROS) and the antioxidant system [1-3

].
The
ROS
are constituted
of
free radicals (like $\text{OH}^\bullet$, $\text{O}_2^{\bullet-}$, $\text{RO}_2^\bullet$) and non-radical products
such as
H
2
O
2
, RO_2H)
[

4
,
5
]. While the defense system
against free radicals can be divided into two major groups
:
enzymatic antioxidants
' group
, includ
ing
superoxide dismutase, glutathione peroxidase
,
and glutathione
reductase. The non-enzymatic antioxidants
that constitute the second group
consist of
vitamins E and C, carotenoids, and polyphenols
[

6
,
7
].
Phenolic compounds are one of the most
essential
groups, among phytochemicals possessing antioxidant capacity
[
8
-
10
].
The designation "p
henolic compounds
"
is generic

referring
to a large number of compounds (more than 8,000) widely dispersed throughout the plant
kingdom [

8

,

10

,

11

].

Phenolics are produced in plants as secondary metabolites. Their antioxidant activity is related to
their
chemical structure that
provide
them redox properties. They can play a
significant
role in neutralizing reactive oxygen species, quenching singlet and triplet oxygen, or decomposing peroxides
[

8

]. Owing to their potential health-promoting effects, phenolic compounds have been intensively investigated [

12

,

13

].

Indeed, they are involved in the prevention and treatment of
several
diseases linked to oxidative stress such as cancers, atherosclerosis, diabetes, inflammation
,

and neurodegenerative diseases
[

8

,

11

,

13

,

14

].

Furthermore, phenolic compounds are
utilized
in pharmaceutical, cosmetic
,

and food industry
[

15

,

16

].

Plants have played a
key
role in human life for as long as they
ha
ve existed. A wide variety of secondary metabolites, endowed with potential biological activities, are synthesized from plants. The
genus *Quercus* includes more than 500 species growing in temperate ecosystems [

17

]. Oak acorns, one of the species of *Quercus* genus, are of vital importance for both humans and animals. They have been
widely
used as food for many thousands of years in many
regions
world
wide
[

18

]. According to Bainbridge [

19

] acorns were a staple food throughout Europe, the Mid-East, North Africa, Asia, and North America.
Acorns are nutritional dense functional food with health properties. Some of the health benefits are
attributed
to the high level of phenolic compounds found in acorns. These phenolic compounds provide acorn fruit with high levels of
antioxidants, which could have potential health
benefits [

18

,

20

].

The aim of the present study was to compare total phenolic and flavonoid contents, as well as the antioxidant activity of both flour and
oil extracts of two acorn species grown in Algeria:
Quercus ilex
L. (
Q. ilex
L.) and
Quercus
suber

L. (

Q.

suber

L.).

right

341390

0

0

MATERIAL AND METHODS

Plant

collection

Acorn fruits were

directly

gathered from two or three individual trees from

Oum

El

Bouaghi

region (Sidi

Rghis

mountain) east of Algeria. *Quercus* species

,

used in this study

,

were identified by comparison with those already

published

in the "Illustrated Guide to Algerian Flora" (N° 978-2-7466-4242-3). Collected seeds (acorns) were sorted and cleared of all

impurities, separated from the shell then finely powdered using electric grinder and passed through a 425 µm sieve. The obtained

powder was freeze-dried

at

-

50°C and

put under

pressure of 0.08 mbar for 24 h to obtain a moisture content <1%

to undergo

extraction.

Oil extraction

Acorn oils were extracted

using

Soxhlet method. Acorn powder (10 g) was weighed into a cellulose extraction cartridge and the Soxhlet apparatus containing the

cartridge was fitted to a distillation flask containing 100 mL n-hexane. After 6 hours of extraction, the extract was filtered and

dehydrated with anhydrous sodium sulphate and the solvent was evaporated under vacuum at 50°C. The amount of oil in the fruits was

expressed on a dry-weight

basis [

21

].

Physical and chemical constants

AOCS methods [

22

] were used to determine free acidity, peroxide value, iodine value and ultraviolet absorption indices (K

232

, K

270

, and

Δ

K).

Extraction of phenolic compounds

The prepared samples (oils and flours) were subjected to an extraction of their phenolic compounds. The extraction of phenols from

the *Quercus* oils was carried out according to the procedure described in

Squeo

et al.

[

23

,

24

]. To obtain the extract, 1

g of oil was dissolved in 1 mL of hexane

and 5 mL of methanol/water (70:30 v/v). The mixture was vortexed

during

10 min and centrifuging at 3941 g for 10 min at 4 °C (Beckman Coulter, Fullerton, California, USA). The methanolic phase was

recovered, centrifuged again at 8867 g for 5 min at 4°C, and finally filtered through 0.45 mm pores filters.

The extracts were analyzed

for determination of total phenols and

for

flavonoid contents.

Polyphenol extraction from the *Quercus* flour was performed as reported by

Difonzo

et al.

[

25

] with some modifications. Approximately, 5 g of homogenized sample was added to 50 mL of methanol/water (70:30 v/v). The

mixture was subjected for 35 min to ultrasound (CEIA,

Viciomaggio

, Italy) treatment at room temperature (energy intensity 1.96 kWh L

-

1

). The obtained extracts were filtered through Whatman filter paper (GE Healthcare, Milan, Italy), then filtered with nylon filters of 0.45 µm (Sigma Aldrich) and used for chemical characterization. For each species, two different extraction solvent

s

were
utilized

.

The extracts were analyzed both for determination of total phenols and flavonoid contents.

Extracts characterization

Total phenols

The total phenolic content was quantified by the

Folin-Ciocalteu

method using a calibration curve of gallic acid (R

2

=0.9979), according to Singleton

&

Rossi [

26

] with the modifications reported by

Caponio

et al

. [

27

]. Briefly, 100 µL of appropriately diluted extract were mixed with 100 µL of

Folin-Ciocalteu

reagent. After 4 min, 800 µL of Na

2

CO

3

solution 5% (w/v) was added to the mixture and heated in a water bath at 40 °C

during

20 min. After being cooled down for 15 min, the absorbance of the solution was measured at 750 nm by an Agilent Cary 60

spectrophotometer (Agilent Technologies, Santa Clara, USA). The total phenolic content was expressed as gallic acid mg equivalents

kg

-1

of oil and mg 100 g

-1

dry matter for the flower.

Flavonoids

Total flavonoid content was quantified

using

a

spectrophotomet

er

according to

Cosmai

et al.

[

28

]. Briefly, 500 µL of each extract was mixed with 2 mL of distilled water and 150 µL of NaNO

2

solution (5 %). After 6 min, 150 µL of a 10% solution of AlCl

3

was added and allowed to stand further 6 min; thereafter, NaOH solution (2 mL, 1 M) was added to the mixture. Then, distilled water

was added to bring the final volume to 5

m

L

.

After incubation at room temperature for 15min, the absorbance of the reaction mixture was read at 510 nm. The results were

expressed as mg of catechin equivalent per kg of oil mg 100 g

-1

dry matter for the flower by means of a catechin standard which was made in the same conditions (R

2

=0.999).

Antioxidant activity

ABTS assay

The antioxidant activity was evaluated on the basis of the scavenging capacity of the ABTS (2,2

,

-azinobis (3-ethylbenzothiazoline-6-sulphonic acid) diammonium salt) compared with a reference antioxidant standard Trolox

(6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid) as described in

Difonzo

et al.

[

25

]. Fifty microliters of each sample were added to 950 µL of ABTS reagent previously prepared. After 8 min, the decrease of

absorbance was measured at 734 nm. Calibration curve of Trolox was used, and the results were expressed in µmol Trolox equivalents

(TE) g

-1

of sample (oil and flour).

center
94400
0
0
718995
156381

Figure 1:
Physical and chemical characteristics of Quercus fruit oils.
PV, peroxide value; K
232
, specific extinction at 232 nm; K
270
, specific extinction at 270 nm; IV, iodine value.
Values are expressed as mean of three replications $\pm$ S.D.
Different letters indicate significant differences at $p \leq 0.05$ according to one-way ANOVA followed by Tukey's HSD test

0
0

Figure 1:
Physical and chemical characteristics of Quercus fruit oils.
PV, peroxide value; K
232
, specific extinction at 232 nm; K
270
, specific extinction at 270 nm; IV, iodine value.
Values are expressed as mean of three replications $\pm$ S.D.
Different letters indicate significant differences at $p \leq 0.05$ according to one-way ANOVA followed by Tukey's HSD test

DPPH assay

Extracts were analyzed for their capacity to scavenge the stable DPPH radical (1,1-diphenyl 2-picrylhydrazyl free radical) as a free radical using the method of Brand-Williams et al

. [

29

] following a modification of the procedure described by Difonzo et al.

[

25

]. This assay is based on the abilities of the antioxidants present into the extracts to scavenge the radical in comparison with that of the standard antioxidant (Trolox). In cuvettes for spectrophotometry, 50 μ L of each sample were added to 950 μ L of DPPH solution (0.08 mM in ethanol). After 30 min

, in the dark, the decrease of absorbance was read at 517 nm. The results were expressed in μ mol TE g

-1
of sample.

Statistical analysis

All analyses were carried-out in triplicate and the experimental data were reported as means $\pm$ standard deviation. Analysis of variance (one- way and two-way ANOVA), Tukey's test and correlation analysis were performed on the experimental data using XLSTAT software.

right
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RESULTS

Oil contents and quality indices

The oil contents of acorn ranged from 7.05 % for

Q. ilex

L. to 7.83 % for

Q.

suber

L. species [

30

]. The physical and chemical constants

, estimated in the oil extracted from the two Quercus species

, are shown on

Figure 1. As revealed, the acidity value was significantly low in the two oils and especially in

Q. ilex

(0.97 g/100g). Acorn oils showed also the low

est

peroxide value which remain

ed

< 1.5

meq

O
 2
 kg
 -1
 oil.
 Q. ilex
 L. oil showed slightly higher value of PV, while
 Q.
 suber
 L. was characterized by the highest
 acidity
 values
 .
 While,
 no significant differences were found in ANOVA (p
 $<$
 0.05) between the two species.
 Similar to PV and acidity values, slight amounts of all spectrophotometric parameters measured (K
 232
 , K
 270
 ,
 and Δk) were found.
 As shown
 on
 Figure 1, relatively high iodine value of the two oil samples was observed and
 Q.
 suber
 L. had the highest value.
 Water furnished an extraction yield of $14.87 \pm 4.42\%$ which
 remained
 weaker than the mixture water/methanol (50:50), methanol and ethanol solvents. Moreover, the evaporation of water took more time
 and required more
 energy
 consumption, which reduces its use. For that reason, some authors advice against using water
 [
 15
]
 for phenol extraction, despite its safety and low price.
 P
 henolic content
 As shown
 on
 Figure 2, total phenolic contents (TPC) are given as gallic acid equivalents by reference to standard curve. Total phenolic contents of
 Quercus fruits show
 ed
 highly significant differences ($p \leq 0.05$) depending on species and extracts. Quercus flour possessed the highest level of total phenolic
 contents (1101–1464 mg GAE/kg dry weight), while the lowest content
 was
 recorded for the extracts obtained from Quercus oil (195.6–322.06 mg GAE/kg oil). The highest level of TPC
 was
 observed in
 Q.
 s
 uber
 L. for the two extracts.
 421640
 66780
 701227
 8306
 Figure
 2
 :
 Total phenolic content (A) and total flavonoid content (B) of Quercus fruit oil and flour
 TPC, total phenolic content; TFC, total flavonoid content
 Values are expressed as mean of three replications $\pm$ S.D.
 Different letters indicate significant differences at $p \leq 0.05$ according to one-way ANOVA followed by Tukey's HSD test.
 0
 0
 Figure
 2
 :
 Total phenolic content (A) and total flavonoid content (B) of Quercus fruit oil and flour
 TPC, total phenolic content; TFC, total flavonoid content
 Values are expressed as mean of three replications $\pm$ S.D.
 Different letters indicate significant differences at $p \leq 0.05$ according to one-way ANOVA
 followed by Tukey's HSD test.
 F
 lavonoid content
 The results obtained after

determining
flavonoids,
throughout
the
aluminum chloride
method, are
illustrated
on
Figure 2. Flavonoid contents (TFC) show
ed
significant differences
too
($p \leq 0.05$)
and
depend on varieties and extracts. As can be
observed
on
Figure 2, flavonoid contents
were
ranged between 212

.
26
and
279

.
82 mg CE/kg dry weight and 122

.
99
and
131

.
6 mg CE/kg of oil for Quercus flour and Quercus oil, respectively. The significant higher amount was obtained in
Q. ilex

L. species for the two different extracts.

Antioxidant capacity

The antioxidant activity of different extracts was assessed using DPPH^{•+} and ABTS^{•+} radicals, and the results are
summarized on

Figure 3. The

antioxidant activity's

analysis reflects a high significant variation ($p \leq 0.05$) between the two extracts. As presented

on

Figure 3,

f

lour extract of

Q. ilex

L. species exhibited the strongest scavenging capacity on DPPH (52.62 g TE/g dry weight). ABTS scavenging activity is also one of
the most commonly used method to evaluate the antioxidant properties in fruits and plants. This activity varied from 1.27

to

3.23 mg TE/g for acorn oil

and from

36.19

to

44.50 mg TE/g for

acorn

flour.

0
57429

center
44212
0
0
center
6089

Figure

3

:

Antioxidant activity of the phenolic fraction (

μ

mol

TE g

—

1) of Quercus fruit oil and flour: (A), DPPH test; (B), ABTS test

Values are expressed as mean of three replications $\pm$ S.D.

Different letters indicate significant differences at $p \leq 0.05$ according to one-way ANOVA followed by Tukey's HSD test

0
0

Figure

3

:

Antioxidant activity of the phenolic fraction (

μ

mol
TE g

1) of Quercus fruit oil and flour: (A), DPPH test; (B), ABTS test
Values are expressed as mean of three replications $\pm$ S.D.

Different letters indicate significant differences at $p \leq 0.05$ according to one-way ANOVA followed by Tukey's HSD test

172085
359079
0
0

DISCUSSION

The
oil
contents

,
obtained from
Quercus species

,
agree with previous findings that reported
a range of 6-9% from
some
acorn
species

[

31

,
3
2

]

. This demonstrated that th
ose contents
are

low for commercial production as cooking or frying oils and the acorn fruit cannot be considered as oleaginous seed
that

possess 30-45%
of
oil [

3
3

]. However, there is a possibility of using this kind of oil as a supplement ingredient in products. In addition, acorn oil might be
considered similar to other plant oil sources used because of their health benefits or their industrial and pharmaceutical applications [

3
2

,
3
4

].

Peroxide value, free acidity

,
and ultraviolet absorption are
considered to be fats and
oils indicators of
quality and stability

[

3
5

]. The main quality characteristics used were found within the ranges for vegetable oils of good quality

[

3
6

]. The relatively low acidity values indicate that the Quercus oils contain a slight amount of free fatty acids. The low peroxide value
indicates an absence of oxidation, which is confirmed by the low presence of primary (K

232

) and secondary oxidation products (K
270

)

[

3
7

].

The iodine value is a measure of the total number of double bonds present in fats and oils [

3
7

]. It provides an overall status of unsaturation [

3
8

]. High iodine-value oil contains a greater number of double bonds than low iodine
-value

one

[

3

9

]. Therefore, the relatively high iodine value of the two oil samples may be indicative of the presence of many unsaturated bonds and would certainly contain more unsaturated fatty acids [

3

0

].

The amount of phenolic compounds constitutes

an important determination since natural phenols improve its resistance to oxidation. These compounds have been correlated with the shelf life of oil, in particular, regarding to its antioxidant activities

[

40

-

42

].

A c

omparative study has been carried out between two different extracts (oil and flour) of *Quercus* fruit. As shown previously, the total phenolic and flavonoid contents were detected at levels significantly higher in the two species of

acorn

flour. Our results showed higher TPC than that already reported in acorn fruits from other countries of Mediterranean basin

[

43

,

44

].

On the contrary, the content of phenolic compounds was significantly lower in acorn oil extracts, while the flavonoids did not show any

large significant differences. The low

amount

of phenolic compounds in acorn oil was probably due to the loss of part of these components during oil extraction.

The flavonoids

,

amount was remarkable in acorn oils and flour respect to other vegetable oils and seeds. For instance, in virgin olive oils

,

the flavonoid content is generally low, ranging from few mg kg

-1

to around 50 mg kg

-1

[

45

-

47

].

In addition, noticeable differences of total phenolic and flavonoid contents were observed among cultivars

*Q. ilex**L.* and*Q.**suber**L.* in

both

extracts (oil and flour). These minor variations observed might be related to the difference in acorn species, environmental conditions, and oak acorn maturity.

Antioxidant activity analysis reflect

ed

as well

a wide significant variation between the two *Quercus* extracts

.

Quercus flour extract exhibited the strongest scavenging capacity against DPPH• and ABTS•+ radicals. These findings were directly related to the higher content of *Quercus* flour in scavenging agents of free radicals acting as antioxidants. Cantos

et al.

[

48

] have obtained similar results by measuring the antioxidant activity of the phenolic fraction of

three *Quercus* species by these two radicals.

The significant antioxidant activity of *Quercus* fruit is due to the inductive effect of the natural antioxidants present in the fruit such as phenolic compounds and flavonoids which reduce and discolor free radicals (DPPH•, ABTS•+) because of their ability to yield

hydrogen [

49

,

50

].

Correlation analysis was used to

establish

the relationship between antioxidant activity and the different variables measured (Table 1). A strong significant correlation ($p < 0.001$) was observed between scavenger activity on free radicals (DPPH•, ABTS•+) and total phenolic content. Flavonoid compounds

showed in turn a high correlation ($p < 0.001$) between their content and the antioxidant properties.

Table 1:

Linear correlation between phenolic compounds and antioxidant activities

Variables
 Pearson correlation coefficient r
 p
 TPC
 oil
 -DPPH
 0.983

 TPC
 oil
 -ABTS
 0.915

 TPC
 flour
 -DPPH
 0.821
 **
 TPC
 flour
 -ABTS
 0.756
 **
 T
 F
 C
 oil
 -DPPH
 0.8
 36
 *
 **
 T
 F
 C
 oil
 -ABTS
 0.
 925
 *
 **
 TFC
 flour
 -DPPH
 0.
 74
 6
 **
 TFC
 flour
 - ABTS
 0.
 649
 **

** p< 0.01
 :
 significant correlation; *** p< 0.001
 :
 high
 significant correlation.
 TPC, total phenolic content; TFC, total flavonoids content.
 172085
 359079
 0
 0

CONCLUSION
 The present study brings new insight of two
 Algerian acorn
 species, particularly their phenolic, flavonoid contents
 ,
 and their antioxidant activity. Antioxidant properties
 ,
 total phenolic
 ,
 and flavonoid contents differed significantly
 within
 the two studied extracts. Flour extracts showed strong antioxidant properties and high total phenolic content. Based on the correlation
 analysis, a positive relationship between antioxidant capacity and total phenolic contents was found, indicating
 that
 those phenolic compounds
 constitute
 the major contributors to the antioxidant properties of these plants. Our results showed that the Quercus fruit (oil and flour)

represents
a
n interesting
natural antioxidant source contain
ing

various biological active compounds. Therefore, it is suggested that the Quercus fruit could be used as a functional ingredient in food industry allowing an efficient protection against oxidative deterioration, and as a valuable phytochemical source for preventing human diseases in which free radicals are involved, such as diabetes and cardiovascular diseases.

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a

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0	
0.69575	
0.0881	
	(A)
0.09941	
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Feuil2!$A$2:$A$7
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  PV
  IV
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Flour
Oil
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TPC mg GAE/kg
Feuil6!$A$8
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Feuil6!$B$10:$C$10
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Feuil6!$B$7:$C$7
Flour
Oil
Feuil6!$B$9:$C$9
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122.99092053693282
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Q. ilex L.
Feuil8!\$B\$5:\$C\$5
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General
1
Feuil8!\$B\$2:\$C\$2
Flour
Oil
Feuil8!\$B\$3:\$C\$3
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Oil
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Q. ilex L.

Feuil8!\$B\$5:\$C\$5

General

3.6820622678744641

1.7360572907247841E-2

General

1

Feuil8!\$B\$2:\$C\$2

Flour

Oil

Feuil8!\$B\$3:\$C\$3

General

52.622363708714687

1.5692509590147383

Feuil8!\$A\$4

Q. suber L.

	Feuil8!\$B\$6:\$C\$6
	General
	4.0126372754466066
	5.989139591790095E-2
	General
	1
	Feuil8!\$B\$2:\$C\$2
	Flour
	Oil
	Feuil8!\$B\$4:\$C\$4
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	2.6925230566534952
	DPPH μ mol TE/g
	Feuil8!\$A\$10
	Q. ilex L.
	Feuil8!\$B\$12:\$C\$12
	General
	1.0998275188648192
	9.8372551282767992E-2
	General
	1
	Feuil8!\$B\$9:\$C\$9
	Flour
	Oil
	Feuil8!\$B\$10:\$C\$10
	General
	44.505239421673956
	1.2746483612625361
	Feuil8!\$A\$11
	Q. suber L.
	Feuil8!\$B\$13:\$C\$13
	General
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	0.17563030512286673
	General
	1
	Feuil8!\$B\$9:\$C\$9
	Flour
	Oil
	Feuil8!\$B\$11:\$C\$11
	General
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	3.2327075098814242
	ABTS μ mol TE/g
0.25365	
0.062	
0.40259	
0.12726	
	a
0.34078	
0.15853	
0.48973	
0.22378	
	ba
0.66323	
0.75514	
0.81218	
0.82039	
	b
0.7412	
0.73276	
0.89013	
0.79801	
	ab
0.51486	
0	
0.67686	
0.08521	
	(B)
0.27911	
0.03617	
0.40421	
0.10142	
	a
0.35664	
0.1897	
0.48176	
0.25494	
	ba
0.68347	
0.76067	

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b
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(A)

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