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                - <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="948985" cy="385156"/>
            </a:xfrm>
            - <a:prstGeom prst="rect">
              <a:avLst>
                <a:prstGeom>
                  <a:noFill/>
                </a:prstGeom>
                - <a:ln>
                  <a:noFill/>
                </a:ln>
              </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>
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- <w:r w:rsidR="00C62C26">
  - <w:rPr>
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      w:eastAsia="Leelawadee UI Semilight"/>
    <w:color w:val="0563C1"/>
    <w:sz w:val="16"/>
    <w:u w:val="single" w:color="0563C1"/>
  </w:rPr>
  <w:t>https://doi.org/10.5281/zenodo.</w:t>
</w:r>
- <w:r w:rsidR="00A27BAE" w:rsidRPr="00A27BAE">
  - <w:rPr>
    <w:rStyle w:val="Hyperlink"/>
    <w:rFonts w:cs="Leelawadee UI Semilight" w:hAnsi="Leelawadee UI Semilight" w:ascii="Leelawadee UI Semilight"/>
    <w:sz w:val="14"/>
    <w:szCs w:val="14"/>
  </w:rPr>
  <w:t>1495218</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="008B0DCA" w:rsidRDefault="0058271B" w:rsidR="00C62C26" w14:textId="59BBA335" w14:paraId="6D6319EF"
  w:rsidRPr="00722F22">
  - <w:pPr>
    <w:spacing w:lineRule="auto" w:line="259" w:after="0" w:before="0"/>
    <w:ind w:right="-406" w:left="255"/>
    <w:jc w:val="left"/>
  - <w:rPr>
    <w:rFonts w:hAnsi="Arial Black" w:ascii="Arial Black"/>
    <w:b/>
    <w:color w:val="auto"/>
    <w:spacing w:val="20"/>
    <w:sz w:val="16"/>
    <w:szCs w:val="16"/>
  </w:rPr>
</w:pPr>
- <w:r>
  - <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="24"/>
  </w:rPr>
  <w:t>Original</w:t>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
  </w:rPr>
  <w:t xml:space="preserve">Article</w:t>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
      </w:rPr>
    <w:tab/>
  </w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
  </w:rPr>
  <w:tab/>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
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  <w:tab/>
</w:r>
- <w:r w:rsidR="005B7D45">
  - <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="24"/>
  </w:rPr>
  <w:tab/>
</w:r>
</w:p>
- <w:p w:rsidP="00C62C26" w:rsidRDefault="003932A6" w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="0DE6C643"
w:rsidRPr="005C028C">
  - <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"/>
    <w:jc w:val="left"/>
  </w:pPr>
  - <w:r w:rsidRPr="005C028C">
    - <w:rPr>
      <w:noProof/>
    </w:rPr>
    - <mc:AlternateContent>
      - <mc:Choice Requires="wps">
        - <w:drawing>
          - <wp:anchor wp14:editId="08D674FF" wp14:anchorId="681BAD5B" allowOverlap="1" layoutInCell="1" locked="0"
behindDoc="0" relativeHeight="251661312" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
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            - <wp:positionH relativeFrom="page">
              <wp:posOffset>1056005</wp:posOffset>
            </wp:positionH>
            - <wp:positionV relativeFrom="paragraph">
              <wp:posOffset>995045</wp:posOffset>
            </wp:positionV>
            <wp:extent cx="5981065" cy="12065"/>
            <wp:effectExtent r="635" b="6985" t="0" l="0"/>
            <wp:wrapNone/>
          </wp:anchor>
        </w:drawing>
      </mc:Choice>
    </mc:AlternateContent>
  </w:r>
</p>

```



```

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- <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"/>
<a:moveTo>
- <a:lnTo>
<a:pt y="0" x="5981426"/>
<a:lnTo>
- <a:lnTo>
<a:pt y="12192" x="5981426"/>
<a:lnTo>
- <a:lnTo>
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- <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"/>
<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="000000">
<a:fillRef>
- <a:effectRef idx="0">
<a:srgbClr r="0" b="0" g="0"/>
<a:effectRef>
<a:fontRef idx="none"/>
</wps:style>
<wps:bodyPr>
</wps:wsp>
</a:graphicData>
</a:graphic>
</wp:anchor>
</w:drawing>
</mc:Choice>
- <mc:Fallback>
- <w:pict>
- <v:shape id="Shape 13825" w14:anchorId="34FAC130" strokeWeight="0" stroked="f" fillColor="black"
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OITrorhX2lFEilmcO2RdNtjC5xDF9pCuTyYBB5bi6bQ4syoJ3g9WQ0ymailLzg5KdCXIKLjvcW893
SUOQXwnz5DrgnHtJTxOsQfEKIT7DmDSUCaxw7Rqn8787ZsmRM9e2VmPeBN4uqYvTtW7jvijg9N/y
JsXecLq0q+WD6m8AAAD//wMAUESDBBQABgAIAAAAIQA4/SH/1gAAAJQBAAALAAAAAX3JlbHMvLnJl
bHOkkMFqWzAMhu+DvYPRFXGawxijTi+j0GvpHsDYimMaW0Yy2fr2M4PBMnrbUb/Q94l/f/hMi1qR
JVI2sOt6UJgd+ZiDgffL8ekFIFSBvV0oo4EbChzGx4f9GRdb25HMsYhqlCwG5lrLq9biZkxWOiqY
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OWA14Fm+Q8a1a8+Bvu/d/dMb2JY5uiPbhG/ktn4cqGU/er3pcvwCAAD//wMAUESDBBQABgAIAAAA
IQA0jQkRNwIAACgFAAAOAAAAZHJzL2Uyb0RvYy54bWysVNtuGyEQfa/Uf0C813tJ7TqW13lo1L5U
bdSkH4BZ8CJxExCv/fcdZi+20qqRou4DO8DMYc4Zhu3dyWhyFCEqZxtaLUpKhOWuVfbQ0F9PXz6s
KYmJ2ZzPZ0VDzyLsu937d9veb0TtOqdbEQiA2LjpfUO7lPymKCLvhGFx4bywsCldMCzBNByKNrAe
0l0u6rJcFb0LrQ+Oixhh9X7YpDvEI1Lw9EPKKBLRDYXcEo4Bx30ei92WbQ6B+U7xMQ32hiwMUxYO
naHuWWLkOag/olziwUUn04I7UzgpFRfiAdhU5Qs2jx3zArmAONHPMsX/B8u/Hx8CUW1Db1aUWGag
RngsqW7W9TLr0/u4AbdH/xDGWQZkz3JYPifaJATanqNRWnRDgsLm/XVblaUsJhr6qzCSjFJZg/

```

```

x/RVOARix28xDSVpJ4t1k8VPdJIDFPafJfUs5bicXTZJP2TysQaWXU6kuq2xYMYdxZNDv/SCBCRS
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ZpOapUEElaALtTJZmU9leQEGtFz/oeJobbMWWS5tfwoJNwcLnxdiOOw/60COLPcafgjOtO/YuDqS
G10xVcTJ8VJpPUNWGPo3yEGW0TnHCWzzObclclvmYzdDr8BgB6anjQZQ5CE92Ns3xFt4pTPOKbTb3
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DcEQFwspwKTUF5TG2mgr48L32uHt2wcrE8rQUBXkBCnR5eMcWp16/CDkb1+Mbo+HwYrIO39w+rn
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AAAAAAAAAACRBAAAZHjZL2Rvd25yZXUeG1sUEsFBgAAAAAEAAQA8wAAAJ0FAAAAAA== "
coordsize="5981426,12192" style="position:absolute;margin-left:83.15pt;margin-
top:78.35pt;width:470.95pt;height:95pt;z-index:251661312;visibility:visible;mso-wrap-style:square;mso-wrap-
distance-left:9pt;mso-wrap-distance-top:0;mso-wrap-distance-right:9pt;mso-wrap-distance-bottom:0;mso-position-
horizontal:absolute;mso-position-horizontal-relative:page;mso-position-vertical:absolute;mso-position-vertical-
relative:text;v-text-anchor:top" o:spid=" x0000_s1026">
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  <v:path textboxrect="0,0,5981426,12192" arrowok="t"/>
  <w10:wrap anchorx="page"/>
</v:shape>
</w:pict>
</mc:Fallback>
</mc:AlternateContent>
</w:r>
- <w:r w:rsidRPr="005C028C">
  - <w:rPr>
    <w:noProof/>
  </w:rPr>
- <mc:AlternateContent>
  - <mc:Choice Requires="wps">
    - <w:drawing>
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        behindDoc="0" relativeHeight="251660288" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
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        - <wp:positionH relativeFrom="column">
          <wp:posOffset>143815</wp:posOffset>
        </wp:positionH>
        - <wp:positionV relativeFrom="paragraph">
          <wp:posOffset>38735</wp:posOffset>
        </wp:positionV>
        <wp:extent cx="5981065" cy="12065"/>
        <wp:effectExtent r="635" b="6985" t="0" l="0"/>
        <wp:wrapNone/>
        <wp:docPr name="Shape 13825" id="35"/>
        <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:custGeom>
                    - <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>
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                        </a:lnTo>
                        - <a:lnTo>
                          <a:pt y="12192" x="0"/>
                        </a:lnTo>
                        - <a:lnTo>
                          <a:pt y="0" x="0"/>
                        </a:lnTo>
                      </a:pathLst>
                    </a:path>
                  </a:pathLst>
                </wps:wsp>
              </a:graphicData>
            </a:graphic>
          </wps:wsp>
        </wp:cNvGraphicFramePr>
      </wp:anchor>
    </mc:Choice>
  </mc:AlternateContent>
</w:r>

```



```

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- <a:ln w="0" cap="flat">
  <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="000000"/>
  </a:fillRef>
  - <a:effectRef idx="0">
    <a:srgbClr r="0" b="0" g="0"/>
  </a:effectRef>
  <a:fontRef idx="none"/>
</wps:style>
<wps:bodyPr>
</wps:wsp>
</a:graphicData>
</a:graphic>
</wp:anchor>
</w:drawing>
</mc:Choice>
- <mc:Fallback>
  - <w:pict>
    - <v:shape id="Shape 13825" w14:anchorId="3902C8CF" strokeWeight="0" stroked="f" fillColor="black"
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      o:gfxdata="UEsDBBQABGAlAAAIQc2giS/gAAAOEBAAATAAAAW0NvbnRlbnRfVHlwZXNdLnhtbJSRQU7Dh
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        0s5Y6ir5vt9ID1JwBD1wOMJJKHpHlpr69KfdHjyxSmriSfYz+USnWPY7AufN1adK6MEJMX9ApD/oD
        OITrorhX2IFEilmcO2RdNtjC5xDf9pCuTyYBB5bi6bQ4sy0J3g9WQ0ymailZg5KdCXIKLjvcW893
        SUOqXwnz5DrngHtJTxOsQfEKIT7DmDSUCaxw7Rqn8787ZsmRM9e2VmPeBN4uqYvTtW7jviej9N/y
        JsXecLq0q+WD6m8AAAD//wMAUESDBBQABGAlAAAIQA4/SH/1gAAAJQBAAALAAAAAX3JlbHMvLnJl
        bHOKkMFqwzAMhu+DvYPRFXGawxijTi+j0GvpHsDYimMaW0Yy2fr2M4PBMnrUb/Q94l/fhMi1qR
        JVI2sOt6UJgd+ZiDgffL8ekFfFSbvV00o4EbChzGx4f9GRdb25HMsYhqlCwG5lrLq9biZkxWOiqY
        22YiTra2kYMu1IltQD30/bPm3wwYN0x18gb45AdQI1tp5j/sFB2T0FQ7R0nTNEV3j6o9feQzroli
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        IQAjCv4gNwIAACgFAAAOAAAAZHJzL2Uyb0RvYy54bWysVNTuGyEQfa/U0C813tJ7tqW13lo1L5U
        bdSkH4BZ8CJxExCv/fcdZi+20qqRou4DO8DMYc4Zhu3dyWhyFCEqZxtaLUpKhOWuVfbQ0F9PxxZ6s
        KYmJ2ZzPZ0VdzyLSu937d9veb0TtOqdbEQiA2LjpfUO7lPymKCLvhGFx4bywsCldMCzBNByKNrAe
        0I0u6rJcFb0LrQ+Oixhh9X7YpDvE1lLw9EPKKBLRDYXcEo4Bx30ei92WbQ6B+U7xMQ32hiwMUxYO
        naHuWWLkOag/olziwUUn0417UzgpFRflAdhU5Qs2jx3zArmaONHPMsX/B8u/Hx8CUW1Db5aUWGag
        RngsqW7W9TLr0/u4AbdH/xDGWQZkz3JYPifaJATanqeNRWnRDgsLm/XVbkCbA57VZ1NQDckuwfw5
        pq/CIRA7fotpKEk7WaybLH6yKxmgS8sqWcpX+Xsskn6IZOP9YqSLidS3dZYM0004smhX3pBAPK8
        7Gp77ZVZldZEGHwnj+nvEe/aczh1oD95Tf/BG64oyPSize90Pr+98MhiZKoo704fFa4G1zUrAKZxB
        s0nN0iCCStCFWpmszKeyvAADWq7/UHG00lmLLJe2P4WEm4OFzwsxHPafdBHlnsNPwRn2ndsXB1J
        ja6YKuLkeKm0niErDP0b5CDL6JzjBLb5HFkOkXzMZuh1elyA9NTxIMochCe7m+Z4C+8UpnnFNpt7
        156xA1AQaEfMfW6cr9fz1G2ywO3+w0AAP//AwBQSwMEFAAGAAgAAAAhAG2IBFPbAAAAAgFAAA8A
        AABkenMvZG93bnJldi54bWxMjsFOwzAQRO9I/IO1SFwQtrMgLSGboqAoZ0ov3NzYxFHjdbCdNPw9
        5gTH0YzevGo9255N2ofOEUK2EMA0NUS11CLs31+uV8BCIKRk70gfjOsA6/r8RkJleid609MutixB
        KJQSwcQ4lJyHxmgrw8lNml36byVMUXfcuXlKcFtz3MhCm5lR+nByEE/Gd0cd6NFt3dfP1sRWv
        zm+Wx2dnxl7RLy8mDcPwKKe498YfvWTOtTJ6eBGUoH1CHlepCVCkQFL9X1xewfsgLASwOuK/9ev
        fwAAP//AwBQSwECLQAUAAYACAAACEAtoM4kv4AAADhAQAAEwAAAAAAAAAAAAAAAAAAAAAAW/
        bnRlbnRfVHlwZXNdLnhtbFBLAQItABQABGAlAAAIQA4/SH/1gAAAJQBAAALAAAAAAAAAAAAAAAA
        AC8BAABfcmVscy8ucmVsc1BLAQItABQABGAlAAAIQAjCv4gNwIAACgFAAAOAAAAAAAAAAAAAAAA
        AC4CAABkenMvZTJvRG9jLnhtbFBLAQItABQABGAlAAAIQBtpQRT2wAAAAYBAAAPAAAAAAAAAAAA
        AAAAAJEEAABkenMvZG93bnJldi54bWxQSwUGAAAAAAQABADzAAAAmQUAAAAA "
      coordsize="5981426,12192" style="position:absolute;margin-left:11.3pt;margin-
        top:3.05pt;width:470.95pt;height:95pt;z-index:251660288;visibility:visible;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;text-orientation:top" o:spid="_x0000_s1026">
        <v:stroke joinstyle="miter" miterlimit="83231f"/>
        <v:path textboxrect="0,0,5981426,12192" arrowok="t"/>
      </v:shape>
    </w:pict>
  </mc:Fallback>
</mc:AlternateContent>
</w:r>
- <w:r w:rsidR="00C62C26" w:rsidPr="005C028C">
  - <w:rPr>
    <w:Fonts 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="125D1B9C" wp14:anchorId="62C09D3D" allowOverlap="1" layoutInCell="1" locked="0"
      behindDoc="0" relativeHeight="251663360" simplePos="0" distR="114300" distL="114300" distB="45720"
      distT="45720">
      <wp:simplePos y="0" x="0"/>
      - <wp:positionH relativeFrom="margin">
        <wp:posOffset>5050155</wp:posOffset>
      </wp:positionH>
      - <wp:positionV relativeFrom="paragraph">
        <wp:posOffset>70485</wp:posOffset>
      </wp:positionV>
      <wp:extent cx="1155622" cy="252442"/>
      <wp:effectExtent r="6985" b="0" t="0" l="0"/>
      <wp:wrapNone/>
      <wp:docPr name="Text Box 2" id="217"/>
    - <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="1155622" 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="00C62C26" w:rsidRDefault="00396313" w:rsidR="00396313"
              w14:textId="77777777" w14:paraId="3A08E2A2" w:rsidRPr="00073AAE">
              - <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>elSSN</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>
    </wps:txbx>
  - <wps:bodyPr anchorCtr="0" anchor="t" bIns="45720" rIns="91440" tIns="45720" lIns="91440"
    wrap="square" vert="horz" rot="0">

```

```

        <a:noAutofit>
      </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>
  - <wp:pic>
    - <v:shapetype id=" _x0000_t202" w14:anchorId="62C09D3D" path="m,l,21600r21600,l21600,xe"
      coordsize="21600,21600" o:spt="202">
        <v:stroke joinstyle="miter"/>
        <v:path o:connecttype="rect" gradientshapeok="t"/>
      </v:shapetype>
    - <v:shape id="Text Box 2" stroked="f"
      o:gfxdata="UEsDBBQABgAIAAAAIQC2gziS/gAAAOEBAAATAAAAW0NvbnRlbnRfVHlwZXNdLnhtbJSRQU7Dh
90jcwflWJU67QAgl6YK0S0CoHGBkTxKLZGx5TGhv5O2G0SRWNoz/78nu9wcxkFMGNg6quQqL6RA
0s5Y6ir5v9ID1JwBDIwOMJJKHpHlpr69KfdHjyxSmriSfYz+USnWPY7AufNIadK6MEJmX9ApD/oD
OITrorhX2IFEilmcO2RdNtjC5xDF9pCuTyYBB5bi6bQ4syoJ3g9WQ0ymailZg5KdCXIKLjvcW893
SUOQXwnz5DrngHtJT xOsQfEKIT7DmDSUCaxw7Rqn8787ZsmRM9e2VmPeBN4uqYvTtW7jviej9N/y
JsXecLq0q+WD6m8AAAD//wMAUESDBBQABgAIAAAAIQA4/SH/1gAAAJQBAAALAAAAAX3JlbHMvLnJl
bHOKkMFqzwAMhu+DvYPRFXGawxijTi+j0GvpHsDYimMaW0Yy2fr2M4PBMnrUb/Q94l/f/hMi1qR
JVI2sOt6UJgd+ZiDgflf.8ekfFfSbvV0o04EbChzGx4f9GRdb25HMsYhqlCwG5lrLq9biZkxWOiqY
22YiTra2kYMu1IltQD30/bPm3wwYN0x18gb45AdQl1tp5j/sFB2T0FQ7R0nTNEV3j6o9feQzroli
OWA14Fm+Q8a1a8+Bvu/d/dMb2JY5uiPbhG/ktm4c4qGU/er3pcvCAAD//wMAUESDBBQABgAIAAAAI
IQAD/VnRIAIAAB0EAAAOAAAAZHJzL2Uyb0RvYy54bWysU11v2yAUfz+0/4B4XxxbcT+sOFWXLtOk
rpvU9gdgJGM04DigsbNfvtO06h7m+oHxPW9HM4997C8GbUie+G8BFPTfDnRBgOrTTbmj4/bT5d
UeIDMy1TYERNd8LTm9XHD8vBVqKAHlQrHEEQ46vB1rQPwVZZ5nkvNPMzsMJgsgOnWcDQbbPWsQHR
tcqK+fwIG8C11gEX3uPfuyIJVwm/6wQPP7rOi0BUTZFbSkLaxPXbLVk1dYx20t+pmH+g4Vm0uCl
J6g7FhjZOfkPlJbcgYcuzDjoDLpOcpF6wG7y+ZtuHntmReoFxfH2JJN/Plj+s/piGxrWuSXlBim
cUhPYgzkM4ykiPoM1ldY9mixMlZ4G+ecevX2HvgvTwyse2a24tY5GHRBWuSx5PZ2dEjX0eQZvgO
LV7DdgES0Ng5HcVDOQii45wOp9IEKjxemZflRvFQwjFXlMVikchlrHo5bZ0PXwVoEje1dTj7hM72
9z5ENqx6KYmXeVcy3UilUuC2zVo5smfok036UgNvypQhQ02vy6JMyAbi+WQhLQP6WEld06t5/CZn
RTW+mDaVBChVtEcmyhziYpM2oSxGbEwatZAe0ChHEX+xfEfm7cH0oG9GpN/e8de4IS9c2g2Nf5
YhHNnYJFeVlg4M4zzXmGGY5QNQ2UTnt1SA8i6mDgFofSyaTXK5MjV/RgkvH4XqLJz+NU9fqvV38B
AAD//wMAUESDBBQABgAIAAAAIQAMhMmf3QAAAAkBAAPAAAAZHJzL2Rvd25yZXYueG1sTlBTsMw
DlbvSLxZDZCQuiKUFutDsdAikENeNPYDbZG1F41RNtnZvjzmxo/1/+v253CxuECc7hd6ThnSVgLDU
eNNTq2H//XH/DCJEJIODJ6vhhAnsqurEgvjZ9ra0y62gksoFKihi3EspAxNZx2GIR8tcXbwk8Pl
49RKM+HM5W6QD0mylg574gsdjva9s83P7ug0HL7muyy6f8+4V9un9Rv2qvZnrW9vltcENENEu8R+G
P31Wh4qdan8kE8SgQeXZi6McpCkIBnKleFryJicZFXKyw+qXwAAAP//AwBQSwECLQAUAAYACAAA
ACEAtoM4kv4AAADhAQAAEwAAAAAAAAAAAAAAAAAAAAAAAAAAW0NvbnRlbnRfVHlwZXNdLnhtbFBLAQIt
ABQABgAIAAAAIQA4/SH/1gAAAJQBAAALAAAAAAAAAAAAAAAAAAC8BAABfcmVscy8ucmVsc1BLAQIt
ABQABgAIAAAAIQAD/VnRIAIAAB0EAAAOAAAAAAAAAAAAAAAAAAAAAAC4CAABkcnMvZjZvRG9jLnhtbFBL
AQItABQABgAIAAAAIQAMhMmf3QAAAAkBAAPAAAAAAAAAAAAAAAAAAAAAAHoEABKcnMvZG93bnJldi54
bWxQSwUGAAAAAAQABADzAAAAhAUAAAA " style="position:absolute;left:0;text-align:left;margin-
left:397.65pt;margin-top:5.55pt;width:91pt;height:19.9pt;z-index:251663360;visibility:visible;mso-wrap-
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;y-text-anchor:top"
o:spid=" _x0000_s1026" type="# _x0000_t202">
      - <v:textbox>
        - <w:txbxContent>
          - <w:p w:rsidP="00C62C26" w:rsidRDefault="00396313" w:rsidR="00396313" w14:textId="77777777"
            w14:paraId="3A08E2A2" w:rsidRPr="00073AAE">
              - <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: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: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:rsidR="00C62C26" w:rsidRPr="005C028C">
  - <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="IDADCBCF" wp14:anchorId="18F8D91C" 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:rsidR="00C62C26" w:rsidRPr="005C028C">
  - <w:rPr>
    <w:noProof/>
    <w:sz w:val="22"/>
  </w:rPr>
  - <mc:AlternateContent>
    - <mc:Choice Requires="wpg">
      - <w:drawing>
        - <wp:inline wp14:editId="0ADF602D" wp14:anchorId="2F70865D" 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>
                            </a:ln>
                          </wps:spPr>
                        </wps:spPr>
                      - <wps:txbx>
                        - <w:txbxContent>
                          - <w:p w:rsidP="00C62C26" w:rsidRDefault="00396313" w:rsidR="00396313" w14:textId="77777777" w14:paraId="378DD19B">
                            - <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>
                  - <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="00C62C26" w:rsidRDefault="00396313" w:rsidR="00396313"
      w14:textId="77777777" w14:paraId="0EEC441A">
      - <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>
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    </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>
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      <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>
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      w14:textId="77777777" w14:paraId="4768D7D2">
      - <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"/>
        </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>

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</wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
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      - <w:pPr>
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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"/>
      </w:rPr>
    </w:pPr>
    - <w:r w:rsidRP="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"
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- <wps:wsp>
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  <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:wsp>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00C62C26" w:rsidRDefault="00396313" w:rsidR="00396313"
      w14:textId="77777777" w14:paraId="1268648C">
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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>
- <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>
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  <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:custGeom>
    - <a:pathLst>
      - <a:path w="5467472" h="365760">
        - <a:moveTo>
          <a:pt y="0" x="0"/>
        </a:moveTo>
        - <a:lnTo>

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```

        <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>
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    - <a:srgbClr val="000000">
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    </a:srgbClr>
    </a:lnRef>
  - <a:fillRef idx="1">
    <a:srgbClr val="F2F2F2"/>
  </a:fillRef>
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  </a:effectRef>
  <a:fontRef idx="none"/>
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</wps:wsp>
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  <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>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00C62C26" w:rsidRDefault="00396313" w:rsidR="00396313"
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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:rPr>
    </w:pPr>
    </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 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>

```

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- <w:r w:rsidPr="00B409E3">
  - <w:rPr>
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  <w:t xml:space="preserve"></w:t>
</w:r>
</w:p>
</w:txbxContent>
</wps:txbx>
- <wps:bodyPr bInns="0" rInns="0" tInns="0" lInns="0" vert="horz" rtlCol="0"
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</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
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  <wps:cNvSpPr/>
  - <wps:spPr>
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    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
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      <a:noFill/>
    </a:ln>
  </wps:spPr>
</wps:txbx>
- <wps:txbx>
  - <w:txbxContent>
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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 bInns="0" rInns="0" tInns="0" lInns="0" vert="horz" rtlCol="0"
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- <wps:wsp>
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  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
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      <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="00C62C26" w:rsidRDefault="00396313" w:rsidR="00396313"
      w14:textId="77777777" w14:paraId="4013F728">
      - <w:pPr>
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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>
</wps:txbx>

```

```

- <wps:bodyPr bIns="0" rIns="0" tIns="0" lIns="0" vert="horz" rtlCol="0"
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- <mc:Fallback>
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  </w:r>
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</w:pPr>
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</w:r>
- <w:r w:rsidR="00AD65C1">
  - <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: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:rsidR="00A5794D">
  - <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:rPr>
            <w:rFonts w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
        </w:rPr>
        <w:t xml:space="preserve">and</w:t>
    </w:r>
    <w:proofErr w:type="spellStart"/>
-   <w:r>
-       <w:rPr>
            <w:rFonts w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
        </w:rPr>
        <w:t>Setti</w:t>
    </w:r>
    <w:proofErr w:type="spellEnd"/>
-   <w:r w:rsidR="00A5794D" w:rsidRPr="00A5794D">
-       <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:rPr>
            <w:rFonts w:hAnsiTheme="minorBidi" w:asciiTheme="minorBidi"/>
            <w:color w:val="000000" w:themeColor="text1"/>
        </w:rPr>
        <w:t>RIGHI</w:t>
    </w:r>
-   <w:r w:rsidR="00AD65C1">
-       <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: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:p>
-   <w:p w:rsidP="00C62C26" w:rsidRDefault="00C62C26" w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="630BC5A7"
    w:rsidRPr="00DD0224">
-       <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="00A5794D" w:rsidRDefault="006C5E23" w:rsidR="00C62C26" w14:textId="58CCE254" w14:paraId="0A101487">
-       <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:rPr>
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            <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:rsidR="00C62C26" w:rsidRPr="00C35468">
        - <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:rsidR="000965F9" w:rsidRPr="000965F9">
        - <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>Research Laboratory on Biological Systems and Geomatics, Faculty of Nature and Life Science, University of Mascara,
        Algeria</w:t>
    </w:r>
    - <w:r w:rsidR="00A5794D">
        - <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:rsidR="00A5794D" w:rsidRPr="00A5794D">
        - <w:rPr>
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            <w:bCs/>
            <w:sz w:val="16"/>
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        </w:rPr>
        <w:t>2</w:t>
    </w:r>
    - <w:r w:rsidR="00A5794D">
        - <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 xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidR="000965F9" w:rsidRPr="000965F9">
        - <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 biology, Faculty of Nature and Life Science, University of Mascara, Algeria</w:t>
    </w:r>
    - <w:r w:rsidR="00A5794D" w:rsidRPr="00A5794D">
        - <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: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:rsidR="00C62C26" w14:textId="77777777" w14:paraId="49A4D1D9" w:rsidRPr="005C028C" w:rsidTr="009B08AB">
  - <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="009B08AB" w:rsidRDefault="00C62C26" w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="25F03059"
  w:rsidRPr="005C028C">
  - <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="008B0DCA" w:rsidRDefault="008B0DCA" w:rsidR="00C62C26" w14:textId="77777777"
  w14:paraId="0A7B8DBE" w:rsidRPr="008B0DCA">
  - <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="00695689">
  - <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="00C11383">
  - <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</w:t>
</w:r>
- <w:r>
  - <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">I N F O</w:t>
</w:r>
- <w:r w:rsidR="00C62C26" w:rsidRPr="005C028C">
  <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="009B08AB" w:rsidRDefault="00C62C26" w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="40F96978"
  w:rsidRPr="005C028C">
  - <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="005C028C">
  <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>
      <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="009B08AB" w:rsidRDefault="00C62C26" w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="3B500A51"
  w:rsidRPr="00611197">
  - <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:p w:rsidP="008F595A" w:rsidRDefault="008F595A" w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="08A8AA95"
  w:rsidRPr="008F595A">
  - <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="00C11383">
    - <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:rsidR="00C62C26" w:rsidRPr="005C028C">
    <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:tblPr w:tblpY="1306" w:tblpX="90" w:vertAnchor="text" w:horzAnchor="margin" w:rightFromText="180"
      w:leftFromText="180"/>
    <w:tblW w:w="9617" w:type="dxa"/>
  - <w:tblBorders>
    <w:top w:val="none" w:space="0" w:color="auto" w:sz="0"/>
    <w:left w:val="none" w:space="0" w:color="auto" w:sz="0"/>
    <w:bottom w:val="none" w:space="0" w:color="auto" w:sz="0"/>
    <w:right w:val="none" w:space="0" w:color="auto" w:sz="0"/>
    <w:insideH w:val="none" w:space="0" w:color="auto" w:sz="0"/>
    <w:insideV w:val="none" w:space="0" w:color="auto" 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="3828"/>
    <w:gridCol w:w="5789"/>
  </w:tblGrid>
- <w:tr w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="759E68F8" w:rsidTr="00BF5296">
  - <w:tc>
    - <w:tcPr>
      <w:tcW w:w="3828" w:type="dxa"/>
    </w:tcPr>
  - <w:p w:rsidP="00033A39" w:rsidRDefault="00C62C26" w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="531342C1"
    w:rsidRPr="005C028C">
    - <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:iCs/>
            <w:sz w:val="14"/>
            <w:szCs w:val="14"/>
        </w:rPr>
    </w:pPr>
    - <w:r w:rsidRPr="005C028C">
        - <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:rPr>
        <w:t xml:space="preserve">Article history: </w:t>
    </w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="6797E9B9" w14:paraId="24F4C68C"
w:rsidRPr="005C028C">
    - <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: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:rPr>
        <w:t>Received</w:t>
    </w:r>
    - <w:r w:rsidRPr="005C028C">
        - <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:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidR="006323A1">
        - <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:rPr>
        <w:t>11</w:t>
    </w:r>
    - <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:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
    - <w:r w:rsidR="006323A1">
        - <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:rPr>
        <w:t>August</w:t>
    </w:r>
    - <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:rPr>
<w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidRPr="005C028C">
  - <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:rPr>
  <w:t>201</w:t>
</w:r>
- <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:rPr>
  <w:t>8</w:t>
</w:r>
- <w:r w:rsidRPr="005C028C">
  - <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:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="61B4C75C" w14:paraId="5D71B9EE"
  w:rsidRPr="005C028C">
  - <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: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:rPr>
  <w:t xml:space="preserve">Accepted</w:t>
</w:r>
- <w:r w:rsidR="006323A1">
  - <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:rPr>
  <w:t>15</w:t>
</w:r>
- <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:rPr>
  <w:t xml:space="preserve"></w:t>
</w:r>
- <w:r w:rsidR="00DB14FB">
  - <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:rPr>

```

```

        </w:rPr>
        <w:t>November</w:t>
    </w:r>
    - <w:r w:rsidRPr="005C028C">
        - <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:rPr>
        <w:t xml:space="preserve"> 201</w:t>
    </w:r>
    - <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:rPr>
        <w:t>8</w:t>
    </w:r>
    - <w:r w:rsidRPr="005C028C">
        - <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:rPr>
        <w:t xml:space="preserve"></w:t>
    </w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="002D35A0" w:rsidR="00C62C26" w14:textId="58C46103" w14:paraId="6EF6CDD4"
w:rsidRPr="005C028C">
    - <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
            Semilight"/>
        <w:sz w:val="14"/>
        <w:szCs w:val="14"/>
    </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:rPr>
    <w:t xml:space="preserve">Available online </w:t>
</w:r>
- <w:r w:rsidR="00A43B63">
    - <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:rPr>
    <w:t>2</w:t>
</w:r>
- <w:r w:rsidR="00B46C22">
    - <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:rPr>
    <w:t>5</w:t>
</w:r>
- <w:r w:rsidR="00A43B63">
    - <w:rPr>
        <w:sz w:val="14"/>
        <w:szCs w:val="14"/>
    </w:rPr>
    <w:t xml:space="preserve"></w:t>
</w:r>
- <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:rPr>
      <w:t>November</w:t>
    </w:r>
  - <w:r w:rsidRPr="005C028C">
    - <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:rPr>
    <w:t xml:space="preserve"></w:t>
  </w:r>
  - <w:r>
    - <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:rPr>
    <w:t>2018</w:t>
  </w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="00C62C26" w:rsidR="00C62C26" w14:textId="7777777" w14:paraId="0D432D36" w:rsidRPr="005C028C">
  - <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:rPr>
</w:pPr>
- <w:r w:rsidRPr="005C028C">
  - <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:rPr>
  <w:t xml:space="preserve">Keywords: </w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="006323A1" w:rsidR="00C62C26" w14:textId="603A5EC2" w14:paraId="652A395F" w:rsidRPr="005C028C">
  - <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:rPr>
</w:pPr>
- <w:r w:rsidRPr="006323A1">
  - <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:rPr>
  <w:t>Annona cherimola</w:t>
</w:r>
- <w:r w:rsidRPr="006323A1">
  - <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:rPr>

```

```

        </w:rPr>
        <w:t xml:space="preserve"> Mill.</w:t>
    </w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="006323A1" w:rsidR="00C62C26" w14:textId="5D476CD6" w14:paraId="1FE7D9AA"
  w:rsidRPr="00464E23">
  - <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:color w:val="auto"/>
    <w:sz w:val="14"/>
    <w:szCs w:val="14"/>
  </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="00464E23">
  - <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:rPr>
  <w:t>Phytochemical screening</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="006323A1" w:rsidR="00C62C26" w14:textId="52EE26BF" w14:paraId="1C9614AB"
  w:rsidRPr="005C028C">
  - <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:rPr>
</w:pPr>
- <w:r w:rsidRPr="006323A1">
  - <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:rPr>
  <w:t>Flavonoids</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="006323A1" w:rsidR="00C62C26" w14:textId="5172B5DF"
  w14:paraId="44A3A9A8">
  - <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:rPr>
</w:pPr>
- <w:r w:rsidRPr="006323A1">
  - <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:rPr>
  <w:t>Antioxidant</w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00AF7978" w:rsidRDefault="006323A1" w:rsidR="00C62C26" w14:textId="25604694" w14:paraId="55B05B16"
  w:rsidRPr="006323A1">
  - <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:i/>
        <w:iCs/>
        <w:sz w:val="14"/>
        <w:szCs w:val="14"/>
    </w:rPr>
</w:pPr>
- <w:r w:rsidRPr="006323A1">
    - <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:rPr>
    <w:t>Candida albicans</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:rsidR="002D35A0" w14:textId="77777777" w14:paraId="35C13A75" w:rsidRPr="005C028C" w:rsidTr="0099201C">
        - <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="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="77777777"
            w14:paraId="69A338A6" w:rsidRPr="005C028C">
                - <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:b/>
                    <w:bCs/>
                    <w:color w:val="FFFFFF" w:themeColor="background1"/>
                </w:rPr>
            </w:pPr>
            - <w:r w:rsidRPr="005C028C">
                - <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:rPr>
                <w:t>Access this article online</w:t>
            </w:r>
        </w:tc>
    </w:tr>
- <w:tr w:rsidR="002D35A0" w14:textId="77777777" w14:paraId="6E659E6C" w:rsidRPr="005C028C"
w:rsidTr="0099201C">
    - <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="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="77777777"
w14:paraId="50EC6189" w:rsidRPr="005C028C">
  - <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:rPr>
</w:pPr>
- <w:r w:rsidRPr="005C028C">
  - <w:rPr>
    <w:rFonts w:cs="Arial-BoldMT" w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT" w:eastAsia="Times
    New Roman"/>
    <w:sz w:val="14"/>
    <w:szCs w:val="24"/>
  </w:rPr>
  <w:t>Quick Response Code</w:t>
</w:r>
- <w:r w:rsidRPr="005C028C">
  - <w:rPr>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
  </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="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="77777777"
w14:paraId="1766A61B" w:rsidRPr="005C028C">
  - <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:rPr>
</w:pPr>
- <w:r w:rsidRPr="005C028C">
  - <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:t xml:space="preserve">Website: </w:t>
</w:r>
</w:p>
- <w:p w:rsidP="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="77777777"
w14:paraId="57FF0B69" w:rsidRPr="005C028C">
  - <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:rPr>
</w:pPr>
- <w:r w:rsidRPr="005C028C">
  - <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="66E321B8" wp14:anchorId="36794F47" allowOverlap="1"
        layoutInCell="1" locked="0" behindDoc="0" relativeHeight="251705344" 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="002D35A0" w:rsidRDefault="00396313"
                w:rsidR="00396313" w14:textId="77777777"
                w14:paraId="13C663C9" w:rsidRPr="00847784">
                - <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:lang w:val="fr-FR"/>
                </w:rPr>
              </w:pPr>
            - <w:r>
              - <w:rPr>
                <w:noProof/>
              </w:rPr>
            - <w:drawing>
              - <wp:inline wp14:editId="3CD1CF4B"
                wp14:anchorId="7AD447C2" 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 25" id="25"/>
              - <wp:cNvGraphicFramePr>
                <a:graphicFrameLocks
                  noChangeAspect="1"
                  xmlns:a="http://schemas.openxm
                </wp:cNvGraphicFramePr>
              - <a:graphic
                xmlns:a="http://schemas.openxmlformats.o
                - <a:graphicData
                  uri="http://schemas.openxmlformats.o
                -

```

```

<pic:pic
xmlns:pic="http://schemas.openxml
- <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">
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  </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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        90jcwflWJU67QAgl6YK0S0CoHGBkTxKLZGx5TGhvj5O2G0SRWNoz/78nu9wexkFMt
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        OITrorhX2lFEilmeO2RdNtjC5xDF9pCuTyYBB5bi6bQ4syoJ3g9WQ0ymailZg5KdCXIK
        SUOqXwnz5DrgnHtJTxOsQfEKIT7DmDSUCaxw7Rqn877ZsmRM9e2VmPeBN4uqYv

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sxD+QgJka16g/UVBj1ZDAsjXmOVU6bePgD/6YmBbc/MXtw5B0MvW1vs5vFldvV0wv/
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tCkkMKmmMzJR5qROFGSSJozNmMqwOoveQHTeURxMPYszhocc3C9KBuzXmhocK
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TMMVwvHzdb1C4YNio1rHhPBDHrbF7U2uMuMG3tPIECORS9hnCqEOocuk9Lomq/z/
X0nTqyGW21Y+JMICWtVwXKhVR8816a/D2SK8NH35rV36tlh+rrPVu70/D+04i3t+NTx
fkSHIjKV7szGixZh8riMSYT5fAbi6qdJCqJEWKVRkEUu/x8ofgEAAP//AwBQSwECLQ
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ABQABgAIAAAAIQA4/SH/IgAAAJQBAAALAAAAAAAAAAAAAAAAAAAAAC8BAABfcm
ABQABgAIAAAAIQD8viexHgIAAB8EAAAOAAAAAAAAAAAAAAAAAAAAAC4CAABKcn
AQItABQABgAIAAAAIQBT2kPa3wAAAAgBAAAPAAAAAAAAAAAAAAAAAAAAAHgEA
bWxQSwUGAAAAAAQABADzAAAAhAUAAAA " style="position:absolute;margin-
left:-2.85pt;margin-
top:22.05pt;width:68pt;height:19.9pt;z-index:251705344;visibility:visible;mso-wrap-
style:none;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:absolute;mso-position-vertical:margin;
relative:margin;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" type="# x0000_t202">
- <v:textbox style="mso-fit-shape-to-text:t">
- <w:txbxContent>
- <w:p w:rsidP="002D35A0" w:rsidRDefault="00396313" w:rsidR="00396313"
w14:textId="7777777" w14:paraId="13C663C9" w:rsidRPr="00847784">
- <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:lang w:val="fr-FR"/>
</w:rPr>
</w:pPr>
- <w:r>
- <w:rPr>
<w:noProof/>
</w:rPr>
- <w:drawing>
- <wp:inline wp14:editId="3CD1CF4B"
wp14:anchorId="7AD447C2" distR="0" distL="0" distB="0"
distT="0">
<wp:extent cx="673100" cy="241300"/>
<wp:effectExtent r="0" b="6350" t="0" l="0"/>
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- <wp:cNvGraphicFramePr>
<a:graphicFrameLocks noChangeAspect="1"
xmlns:a="http://schemas.openxmlformats.org/d
</wp:cNvGraphicFramePr>
- <a:graphic
xmlns:a="http://schemas.openxmlformats.org/drawingm
- <a:graphicData
uri="http://schemas.openxmlformats.org/drawingm
- <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://schemas.microsoft.com/office/drawing/2014"
        />
      </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:prstGeom>
  </a:prstGeom>
  - <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:textbox>
  <v:shape>
    <w:pict>
      <mc:Fallback>
      <mc:AlternateContent>
    </mc:AlternateContent>
  </w:pict>
  <w:r>
    - <w:hyperlink r:id="rId14" w:history="1">
      - <w:r w:rsidRPr="005C028C">
        - <w:rPr>
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          <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
          <w:sz w:val="18"/>
          <w:szCs w:val="18"/>
        </w:rPr>
        <w:t>www.najfnr.or</w:t>
      </w:r>
    </w:hyperlink>
  </w:r>
  - <w:r w:rsidRPr="005C028C">
    - <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:rPr>
    <w:t>g</w:t>
  </w:r>
</w:p>
</w:tc>
</w:tr>
- <w:tr w:rsidR="002D35A0" w14:textId="77777777" w14:paraId="15D17E13" w:rsidRPr="005C028C" w:rsidTr="0099201C">
  - <w:trPr>
    <w:trHeight w:val="1013"/>
  </w:trPr>
  - <w:tc>
    - <w:tcPr>
      <w:tcW w:w="1615" w:type="dxa"/>
    </w:tcPr>
  </w:tc>
  - <w:p w:rsidP="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="77777777"
    w14:paraId="4B7B88EC" w:rsidRPr="005C028C">
    - <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:pPr>
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    </w:rPr>
  </w:p>
  - <w:r w:rsidRPr="005C028C">

```

```

- <w:rPr>
  <w:noProof/>
</w:rPr>
- <w:drawing>
  - <wp:anchor wp14:editId="133F05D5" wp14:anchorId="32918243" allowOverlap="1" layoutInCell="1"
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    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>
    <w:tcW w:w="1620" w:type="dxa"/>
    <w:vMerge/>
  </w:tcPr>
  - <w:p w:rsidP="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="77777777"
    w14:paraId="5D40B0F5" w:rsidRPr="005C028C">
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      <w:jc w:val="left"/>
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
    </w:rPr>
  </w:pPr>
</w:tc>

```



```

</w:tr>
- <w:tr w:rsidR="002D35A0" w:rsidTr="0099201C" w14:textId="77777777" w14:paraId="0C6CE084" w:rsidRP="005C028C"
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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="00033A39" w:rsidRDefault="002D35A0" w:rsidR="002D35A0" w14:textId="790724B4" w14:paraId="20DE54EE" w:rsidRP="00CD7A6F">
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        <w:jc w:val="center"/>
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      <w:rPr>
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        <w:b/>
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        <w:spacing w:val="20"/>
        <w:sz w:val="12"/>
        <w:szCs w:val="12"/>
      </w:rPr>
    </w:pPr>
    <w:r w:rsidRP="00CD7A6F">
      <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:rPr>
      <w:t>https://doi.org/10.5281/zenodo</w:t>
    </w:r>
    <w:r w:rsidR="0035656E">
      <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:rPr>
      <w:t></w:t>
    </w:r>
    <w:r w:rsidR="00A27BAE" w:rsidRP="00A27BAE">
      <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"/>
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      <w:t>1495218</w:t>
    </w:r>
  </w:tc>
</w:tr>
</w:tbl>
- <w:p w:rsidP="00033A39" w:rsidRDefault="00C62C26" w:rsidR="00C62C26" w14:textId="77777777" w14:paraId="47EDE851">
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    <w:jc w:val="left"/>
  </w:pPr>
  <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:rPr>
</w:p>
- <w:p w:rsidP="006125CF" w:rsidRDefault="006125CF" w:rsidR="006125CF" w14:textId="77777777" w14:paraId="15B421E3">
  <w:pPr>
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    <w:ind w:right="0" w:left="0" w:firstLine="0"/>
  </w:pPr>
  <w:rPr>
    <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>

```

```

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        <w:iCs/>
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        <w:szCs w:val="16"/>
      </w:rPr>
    </w:pPr>
  - <w:r w:rsidRPr="000B08C1">
    - <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="16"/>
      <w:szCs w:val="16"/>
    </w:rPr>
    <w:t>Article edited by</w:t>
  </w:r>
  - <w:r w:rsidRPr="00695689">
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:i/>
      <w:iCs/>
      <w:color w:val="538135" w:themeShade="BF" w:themeColor="accent6"/>
      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
    </w:rPr>
    <w:t xml:space="preserve">Dr. </w:t>
  </w:r>
  - <w:r>
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:i/>
      <w:iCs/>
      <w:color w:val="538135" w:themeShade="BF" w:themeColor="accent6"/>
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    </w:rPr>
    <w:t>Farid DAHMOUNE</w:t>
  </w:r>
  - <w:r w:rsidRPr="00695689">
    - <w:rPr>
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 Methods and Material:
 Aqueous decoction, aqueous infusion, aqueous maceration
 ,
 and methanolic maceration were screened for the presence of phytochemicals and to quantify content of phenolics, tannins
 ,
 and flavonoids. Furthermore, antioxidant activity was assessed using DPPH and FRAP assays
 ,
 as well

the assessment of antifungal activity for the different extracts.

Results:

R

esults showed that phenols, tannins, flavonoids

,

and saponins

were

present in the four extracts. The aqueous maceration extract

presented

the highest total phenolic content (3.687 mg GAE/g of extract). Decoction extract showed the lowest phenolic content

2.504 mg GAE/g. Besides, infusion showed the most important total flavonoids content (2.567mg CE/g). The most

relevant

total antioxidant activity was found for decoction (lowest IC

50

12.61 mg/ml AAE). The aqueous maceration exhibited the less antioxidant activity (IC

50

= 21.98 mg/ml AAE). The best scavenging activity was observed for decoction (IC

50

=7.27

m

g/mL). All the extracts showed a reducing capacity. Infusion exhibited the best reducing power (EC

50

= 11.29

m

g/mL)

,

compared to decoction (EC

50

= 39.32

m

g/mL). Regarding antifungal activity, at 100 and 200 µg/mL

,

decoction and methanolic maceration resulted in

6 and 9 mm

inhibition zone, respectively. In addition, at higher doses (800 and 2000

µg/mL), inhibition zone increased in a dose dependent manner for all the extracts.

Conclusions:

Annona cherimola

Mill. could be an important source of bioactive molecules with antioxidant and antifungal activities.

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145720

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19050

2979725

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1178560

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2518410

2862786

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659319213

bachirsb@yahoo.fr

18085

60960

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16815

208915

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INTRODUCTION

Annona cherimola

Mill. (cherimoya) is a subtropical fruit tree that originated from frost-free valleys of the Andes at an altitude between 700 and 2400

m [

1

]. The species

represents

one of the most exploited and most important commercially from the

Annonaceae

species

[

2

].

A. cherimola
 is
 utilized
 i
 n the treatment and management of several diseases such as gastrointestinal disorders and ulcers [
 3
], diabetes [
 4
], nervous disorders [
 5
], and
 even
 cancer [
 6
].
 The
A. cherimola
 's
 fruit pulp is a typical sweet fruit, fleshy and juicy
 ,
 providing several important nutrients such as vitamins C and B (B1, B2, B3 and B6), iron, phosphorus
 ,
 and calcium [
 7
]. Recently, Albuquerque
 et al.
 [
 8
] have analyzed the fruits pulp of 04 varieties and found that its energy content varied between 81 kcal and 102 kcal per 100 g of
 edible portion. In addition, the fruit is rich in water and has low total proteins and fats. Hence, the fruit pulp is
 considered by a lower energy and higher content regarding active molecules.
 Several biological activities were attributed to
A. cherimola.
 Falé
 et al.
 [
 9
] demonstrated that decoctions of
A. cherimola
 leaves inhibited the cholesterol biosynthesis through targeting the HMG-CoA reductase, and reduced the cholesterol absorption. An
 alkaloid extract (major compounds:
 normuciferine
 ,
 anonaine
 , 1,2-dimethoxy-5,6,6a,7-tetrahydro-4H-dibenzoquinoline-3,8,9,10-tetraol, and,
 liriodenine
 .) of
A. cherimola
 resulted in antidepressant-like effects in mice. Moreover
 ,
 i
 t enhanced
 the effectiveness of two antidepressant drugs: imipramine and clomipramine [
 10
]. Furthermore, it has been demonstrated that
A. cherimola
 exhibited a significant antiprotozoal activity (IC
 50
 < 30g/ml) against
Entamoeba histolytica
 , justifying its ethnomedicinal use in the treatment of
 gastrointestinal
 disorders [
 11
]. Similarly,
A. cherimola
 showed an interesting anti-
Helicobacter pylori
 activity with a minimal inhibitory concentration <15.6 µg/ml [
 12
]. The fruit was active against several species of
 enteropathogens
 too,
 such as
Escherichia coli
 , *Salmonella*
 sp
 , or *Shigella*
 sp
 [
 13

].
 It has been reported that
A. cherimola
 contains different phytochemicals such as flavonoids, tannins, phenolics, alkaloids, saponins and phytosterols [

14

]. Methyl butanoate, butyl butanoate, 3-methylbutyl butanoate, 3-methyl butyl 3- methyl butanoate
 ,
 and 5-hydroxymethyl-2- furfural
 ,
 were the predominant molecules in essential oils extracted from the bark [

15

]. The fruit contains Kaur-16-en-19-oic acid
 ,
 as a major lipophilic compound besides
 fatt
 y
 acids and sterols. Furthermore, the fruit is rich in
 flavan-3-ols: catechin, (epi)catechin- (epi)
 gallocatechin
 , (epi)
 gallocatechin
 , (epi)
 afzelechin-(epi)
 catechin
 ,
 and procyanidin tetramer [

16

]. Although leaves are not edible, they are used in
 phytotherapy
 . Several bioactive alkaloids have been identified in this part of the plant such as two aporphine (
 anonaine
 and
 asimilobine
), three
 oxoaporphine
 (
 lanuginosine
 ,
 liriodenine
 and
 lysicamine
) and two
 proaporphine
 (
 pronuciferine
 and
 stepharine
) [

17

]. In another study,
 rutin
 was found to be the major compound isolated from decoctions of
A. cherimola
 leaves' decoction, in addition to chlorogenic acid,
 rutin
 xyloside
 and kaempferol 3-O-rutinoside [

9

].
 Few studies have evaluated the antioxidant activities of
A. cherimola
 [

18

,

19

].
 To
 the best of
 our knowledge,
 very few studies
 have
 been carried out to measure the antioxidant activities of
A.
cheriloma
 fruit.
 The present study aimed to characterize phytochemically the
 e
 dible parts (fruits) of
A. cherimola
 Mill. In addition, we
 assessed
 the antioxidant activities using different methods such as free radical scavenging and ferric reducing

antioxidant power. Besides, the antifungal activity of different extracts of *A. cherimola* has been investigated.

172085
345135
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Material and Methods

Plant

material

Commercial fruits of

A. cherimola

(from Ecuador) were bought from a market in France. Four fresh fruits at full ripeness, 7–11 cm diameter, 10–18 cm height, were peeled and seeds were removed from the pulp. Fruit pulp (1.2 kg) was cut into small pieces (about 1 cm

3

) for further experiments. All the experiments were carried out in Algeria.

Extraction

The methanolic extract was obtained by soaking fruit pulp (200 g) with 400 ml of methanol for 24 hours. The mixture was then filtered through Whatman filter paper and the filtrates obtained were dried at 45 °C for 72 h. To obtain the aqueous maceration extract, 200 g of the fruit pulp were macerated in 400 ml of distilled water for 24 hours. The extract was filtered and dried in an oven at 45 °C for 72 h. Decoction extract was prepared by boiling 200 gram of the fruit pulp in 800ml of distilled water. Likewise, 200 gram of fruit pulp were put into a Beaker, containing 800 ml boiling distilled water, with continuous stirring for 30 min to obtain the infusion extract.

The extraction yield

,

expressed

in

%

i.e.

g of extract/100 g of dried material

,

was calculated using formula

(1)

:

Yield (w/w %) = (Weight of dried crude extract/Weight of pulp used) x 100 (1)

Phytochemical screening

The phytochemical screening of the extracts of

A. cherimola

pulp was performed using standard procedures described by

Trease

and Evans [

20

]

.

Determination of Total Phenolic Content

Total phenolic content was obtained using the

Folin

–

Ciocalteu's

reagent as described by

Benarba

and

Meddah

[

21

]. Absorbance was measured at 760

nm using

UV

spectrophotometer (Shimadzu, Japan). Gallic acid was used to generate the calibration curve, and the total phenolic content was expressed as mg gallic acid equivalent (GAE)/g

)

dry weight of the extract. Values were determined in triplicate.

Determination of total flavonoid Content

The total flavonoid content of

A. cherimola

extracts was determined by the

aluminum

chloride colorimetric method as previously described by

Zhishen

et al.

[

22

]. Catechin served as a positive control, and absorbance was

read at 510 nm. The total flavonoid content was expressed as mg catechin equivalents (CE)/g dry weight of extract. Values were determined in triplicate.

Determination of condensed tannin content

The condensed tannin content of

A. cherimola

extracts was determined using the vanillin-HCl method modified by Lin and Tan [

23

]. Samples were mixed with 5 mL vanillin-HCl (8% conc. aq. HCl and 4% vanillin in methanol). The calibration curve was obtained using standard solution of catechin in the concentration range 05-40 µg/ml, and the condensed tannin content was expressed as mg catechin equivalents (CE)/g dry weight of extract. Values were determined in triplicate.

Antioxidant activity

Evaluation of total antioxidant capacity (TAC)

The

phosphomolybdenum

assay was used to evaluate the total antioxidant capacity as described by

Grochowski

et al.

[

24

]. 0.3 mL of each extract was added to 3

mL of the molybdate reagent solution (0.6

M sulfuric acid, 28 mM sodium phosphate

,

and 4 mM ammonium molybdate). A calibration curve was prepared for a methanolic solution of ascorbic acid (1000, 500, 250, 125, 62.5 and 31.25 µg/ml). The absorbance was determined at 695 nm and the total antioxidant capacity was expressed as mg equivalent of ascorbic acid.

Free radical scavenging of DPPH radical

The free radical scavenging activity of

A. cherimola

extracts was

determined,

using DPPH. 1.5mL of methanolic solution of DPPH was added to 750µL of each extract (at different concentrations). After 30 minutes

,

in dark, absorbance was

measured

at 517nm against a blank (the reaction mixture without DPPH). The inhibition percentage for scavenging DPPH radical was calculated according to

formula (2)

:

$[(A1 - A2) / A1] \times 100$

....

.....

(2)

A1

:

the absorbance of the reaction mixture without extract

;

A2

:

the absorbance of the reaction mixture with sample.

Ferric ion reducing antioxidant power assay (FRAP)

The ferric ion

,

reducing antioxidant power

,

was evaluated

as described by

Oyaizu modified by

Baghiani

et al.

[

25

].

2.5 ml of each extract

,

at various concentrations

,

were mixed with 2.5 ml of 200 mmol/l sodium phosphate buffer (pH 6.6) and 2.5 ml of 1% potassium ferricyanide. After incubation at 50°C for 20 min, 2.5 mL of 10% trichloroacetic acid (w/v) were added and the mixture was then centrifuged at 650 rpm for 10 min.

The upper layer (5 ml) was mixed with 5 ml

deionized

water and 1 ml of 0.1%

of ferric chloride. The absorbance was measured at 700 nm.

Antifungal activity

The antifungal activity of the extracts was carried out based on the disc diffusion method against

Candida

albicans

that

was obtained and identified from the hospital of Mascara city (

West Algeria

).

C. albicans

,

cells were obtained from a 24 h culture on YPG broth. Inoculum suspension of 10

3

CFU/mL was prepared in sterile distilled water from 24 h-old culture grown on YPG broth.

Sabouraud's

dextrose agar plates were inoculated with prepared suspension. Sterile blank discs of 6 mm diameter were impregnated with different concentrations of the extracts (100, 200, 400, 800, and 2000 µg/mL) and placed on the plates. The diameters of growth inhibition zones were measured after 5 days incubation at 35°C.

133467
357084
0
0

Results

Extract yields

The

obtained

results showed that the extraction yield of infusion, decoction, methanolic maceration

,

and aqueous maceration of

A. cherimola

fruit pulp was found to be 10.5%, 5%, 7.5% and 7%, respectively. The results revealed that extraction by infusion was more effective compared to decoction, methanolic maceration

,

and

aqueous maceration.

Phytochemical Screening

Table 1 shows that phenols, tannins, flavonoids

,

and saponins

were

present in all extracts. However, gallic tannins

were

solely

present in the infusion and decoction extracts and were not detected in both maceration extracts.

Catechic

tannins, anthraquinones, steroids, anthocyanins

,

and

betacyanins

were not detected in all extracts of

A. cherimola

pulp.

Table 1

:

Phytochemical screening of

A. cherimola

pulp extracts

Phytochemicals
Infusion
Decoction
A.M
M.M
Phenols and tannins
++
++
++
++
Gallic tannins
+++
++
-
-
Catechic
tannins
-
-
-
-
Flavonoids
++
+++
+
+++
Saponins
+
+
+
+
Anthraquinone
-
-
-
-

Steroids
-
-
-
-
Anthocyanin and Betacyanin
-
-
-
-

A.
M
:
Aqueous maceration
; M.
M
:
Methanolic
maceration
;
(
+
)
:
: presence
(
-
)
:
: absence

Total phenolic, flavonoid and condensed tannin contents

As

shown in

table 2, the highest total phenolic content was found in the aqueous maceration extract. Decoction extract showed the lowest phenolic content. The total phenolic content was 2.85 ± 0.50 mg GAE/g and 2.83 ± 0.72 mg GAE/g in infusion and methanolic maceration, respectively.

Table 2

:
Total phenolic, flavonoid and condensed tannin contents in
A. cherimola
fruit extracts

Extract
Total phenolic content
a
Total flavonoid content
b
Total condensed tannin
b
Infusion
2.85 ± 0.50
2.56 ± 0.11
6.62 ± 0.35
Decoction
2.50 ± 0.23
0.84 ± 0.06
1.80 ± 0.05
M.M.
2.83 ± 0.72
0.61 ± 0.09
1.44 ± 0.05
A.M.
3.68 ± 0.95
0.62 ± 0.02
2.00 ± 0.01

a
: (mg gallic acid equivalent/g extract)

b
: (mg catechin equivalent/g extract)

A.
M
:
Aqueous maceration

; M.

M

:

Methanolic
maceration

Flavonoid content (TFC) values were expressed in catechin equivalent as milligrams per gram of the extract (mg CE/g extract). Our findings showed that infusion extract had the highest TFC (2.567 ± 0.11 mg CE/g). TFC levels for the decoction, aqueous

,
and methanolic maceration were 0.84, 0.61

,
and 0.62 mg CE/g, respectively.

Regarding total condensed tannin, the infusion extract had the highest content with a concentration of 6.623 mg CE/g extract, whereas, lower values were found for decoction, aqueous and methanolic maceration (1.803, 1.442

, and 2.001 mg CE/g extract, respectively).

Antioxidant activity

Total antioxidant capacity

The total antioxidant capacity for the different extracts of

A. cherimola

pulp was evaluated by phosphomolybdate method [

26

]. The results are expressed as mg/ml of ascorbic acid equivalents (AAE).

A

s shown

on

figure 1, decoction exhibited the highest antioxidant activity since its IC

50

(12.61±0.76 mg/ml AAE) was the lowest among all extracts. The aqueous maceration exhibited the less important antioxidant activity

(IC

50

= 21.98±1.09 mg/ml AAE). Hence, the antioxidant capacity

,

of all the extracts

,

could be ranked in the following order: decoction; infusion; methanolic maceration;

and

aqueous maceration.

Figure

1

:

Total antioxidant capacity of

A. cherimola

pulp extracts

DPPH Radical Scavenging Activity

The antioxidant activities of the

A. cherimola

extracts were examined using DPPH. The antioxidant activities of extracts were evaluated using the percentage scavenging

activities (Figure 2) and IC

50

values (mg/ml) (Table 3).

Figure

2

:

DPPH free radical scavenging activity

Table 3

:

IC

50

values of DPPH-scavenging activity of

A. cherimola

pulp extracts

A.A.

A.M

M.M

Infusion

Decoction

IC

50

(mg/mL)

0.20

±

0.01

26.80

±

0.09

22.33

±

0.05

28.09

±

0.12

7.27

±

0.08

A.A: Ascorbic acid;

A.

M

:

Aqueous maceration

; M.

M

:

Methanolic

maceration
 ; (
 +
)
 : presence
 ;
 (
 -
)
 : absence
 Our results demonstrate
 d
 that both extracts possess
 ed
 antioxidant activity. A promising scavenging activity was observed for decoction. Regarding IC
 50
 values, decoction seems to possess the best antioxidant activity (IC
 50
 = 7.27 ± 0.08 mg/mL). In spite of that, infusion, methanolic maceration
 ,
 and aqueous maceration exhibited poor antioxidant activities with IC
 50
 of 28.09 ± 0.12 , 26.80 ± 0.09 and 22.33 ± 0.05 mg/mL, respectively. Indeed, the lower the IC
 50
 of the extract, the higher will be its antioxidant activity
 and vice versa [
 27
].
 R
 educing power
 Concerning
 evaluation of the reducing power of the
 A. cherimola
 extracts
 ,
 results
 are presented
 on
 figure
 3
 .

	2232642
	42204
	0
	0

 F
 igure
 3
 :
 Reducing power of
 A. cherimola
 pulp extracts compared with ascorbic acid
 Table 4
 :
 EC
 50
 values (mg/mL), reducing power assay

	A.A.	A.M	M.M	Infusion	Decoction
E					
C					
50					
(mg/mL)					
1.12					
±					
0.06					
49.20					
±					
0.01					
47.01					
±					
0.01					
11.29					
±					
0.10					
39.20					
±					
0.01					

 A.A: Ascorbic acid; A.

M
:
Aqueous maceration
; M.
M
:
Methanolic
maceration
; (
+
)
:
presence
;
(
-
)
:
absence
A
All the extracts showed a reducing capacity
(Table 4)
. This reducing power was less than that of standard (ascorbic acid, EC
50
= 1.12±0.06
mg/mL). Moreover, infusion exhibited the best reducing power (EC
50
= 11.29±0.10 mg/mL) when compared to decoction (EC
50
= 39.32±0.01 mg/mL). Both methanolic and aqueous macerations
displayed
the lowest reducing power as their EC
50
(49.20±0.01 and 47.01±0.01 mg/mL, respectively) were four-folds that of infusion.

Anti
fungal
activity
In the present study, antifungal activity of
A. cherimola
was performed
using
disc diffusion method. As shown
on
figure
4
, at 100 and 200 µg/mL decoction and methanolic maceration resulted in
6 and 9 mm
inhibition zone, respectively. On the other hand, no antifungal activity was exhibited by both infusion and aqueous maceration at these
concentrations. When the extracts were used at higher doses (800 and 2000 µg/mL), inhibition zone
increased in a dose dependent manner for all the extracts. The strongest antifungal activity was exhibited by decoction, methanolic
maceration
,
and infusion.

	711192
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	0

Figure
4
:
Inhibition zone diameter of antifungal susceptibility of
A. cherimola
pulp extracts

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	0
	0

Discussion
The present study has been
undertaken
to investigate the phytochemical profile, and assess the antioxidant activity and antifungal effect of four extracts of
A. cherimola
.
The phytochemical screening of
A. cherimola
extracts revealed the presence of phenols, tannins, flavonoids
,
and saponins. These phytochemicals can act individually or in synergism and could explain different biological activities
characterizing the plant such as antimicrobial, antioxidant,
antiinflammatory
, antifungal,
antitumoral
, anxiolytic
,
.

and anti-*Helicobacter pylori* [
28
].
The
obtained
results showed that
A. cherimola
extracts are relatively rich in total phenolic and flavonoid compounds. Our findings are consistent with those previously reported by
Barreca
et al.
[
19
] revealing that the fruit is rich in flavanols and procyanidins dimers and trimers. García-Salas
et al.
[
29
] reported the isolation of 21 phenolic compounds from
A.
c
herimola
pulp
. The major compounds were flavan-3-ols: (epi)
catechin and procyanidin.
Even though decoction was not found to be the richest extract in phenolic compounds, it exhibited the most important antioxidant
activity. Likewise, our findings revealed that infusion
exhibited
the strongest reducing power among the
analyzed
extracts. This may be due to the presence of some molecules with strong antioxidant effect and/or reducing power. In consistence with
our findings, it has been found that
A.
c
herimola
juice had the
highest antioxidant activity (98
.
085 Trolox Eq/100 g) when
compared to the plant's skin and flesh. Interestingly, the antioxidants of the plant were absorbed by Burkitt's Lymphoma and colon
cancer cell lines both under normal and oxidative stress conditions [
18
].
The
obtained
results in the
current
study
agree
with those showing an important antioxidant activity of methanolic and ethanolic extracts of
A. cherimola
, attributed to its
flavonols
and procyanidin [
30
]. The fruit is rich in flavan-3-ols (catechin and epicatechin) known to be powerful antioxidants preventing several diseases such as
cardiovascular diseases and cancer [
31
].
Furthermore
, their antioxidant activities and biological effects are enhanced owing to their good bioavailability [
32
].
These phenolic compounds possess several phenolic hydroxyl groups with the capacity to scavenge free radicals and exhibit
antioxidant activity. It has been
found
that hydroxylation of both rings B and A in the flavonoid skeleton could explain and / or enhance the antioxidant activity [
33
]. It is
believed
that phytochemicals of the
A. cherimola
fruits with antioxidant activity could be responsible of its ethnomedicinal
utilization
against several diseases such as cancer [
34
]. Indeed, procyanidin was demonstrated to present important antioxidant activities [
35
-
38
]. In addition, the phytochemical screening showed that gallic
tannins were
only
detected in the infusion and decoction. Gallic tannins from the fruits have been shown to be strong antioxidants both

in vitro
and
in vivo
[
39
-
41
].
Candida species, considered as opportunistic
pathogenic
fungi, cause several systemic infections in humans. These fungi develop drug-resistance and result in treatment failures [42
]. Therefore, search of anti-Candida molecules from natural sources such as plants has been undertaken. In recent years, different
herbal products and molecules exhibiting anti-Candida activities
,
have been reported [43
-
45
].
Candida albicans
is responsible of severe invasive infections characterized by high mortality rates achieving more than 65% even with antifungal drugs [46
]. In the present study we assessed the antifungal activity of
Annona
cherimola
pulp extracts against
Candida albicans
. Our results showed that at 100 and 200
µg/mL, only decoction and methanolic maceration exhibited antifungal effect. At 800 and 2000 µg/mL, the extracts experienced a
dose-dependent increase of the antifungal activity. Decoction, methanolic maceration
,
and infusion resulted in the highest antifungal activity as revealed by the inhibition zone. Similar results were reported previously.
Navarro-Garcia
et al
.
[47
]
demonstrated that
A. cherimola
seeds extracts exerted an important antifungal effect against
C. albicans
. Among the
studied
extracts, the methanolic extract was the most effective. The antifungal
activities of medicinal plants are usually attributed to their
secondary metabolites such as flavonoids or tannins, known to be natural antifungal agents [48
]. The antifungal effect of
the studied
A.
cherimola
extracts
might
be attributed to flavonoids, found in all the extracts. In fact, flavonoids are produced in plant after a microbial infection which could
explain their antimicrobial activity demonstrated in several studies [49
].

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Conclusions
Our findings revealed the presence of various phytochemicals with well documented biological activities, including phenols, tannins,
flavonoids
,
and saponins. Furthermore, our results showed that
A. cherimola
extracts are relatively rich in total phenolic and flavonoid compounds. The highest total phenolic content was found in the aqueous
maceration. In addition, infusion showed the most important total flavonoids content.
Regarding the antioxidant activity, both extracts possessed an activity as assessed
with
DPPH. The strongest scavenging activity was observed for decoction. Similarly, both extracts exhibited reducing power. The best
reducing power was attributed to infusion. Both methanolic and aqueous macerations possessed the lowest reducing power.
Interestingly, all the
studied
extracts exhibited an antifungal activity against
Candida albicans
. The strongest antifungal activity was exerted by decoction, methanolic maceration and infusion.

The antioxidant and antifungal activities may be attributed to the presence of phenolic compounds such as flavan-3-ols: (epi)catechin and procyanidin.

Further investigations should be carried out to identify the active component of the extract and to confirm the mechanism of action and may shed light on the use of

A. cherimola

as a useful dietary supplement.

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