

```

<?xml version="1.0" encoding="UTF-8" standalone="true"?>
<?mso-application progid="Word.Document"?>
<pkg:package xmlns:pkg="http://schemas.microsoft.com/office/2006/xmlPackage">
  - <pkg:part pkg:padding="512" pkg:contentType="application/vnd.openxmlformats-package.relationships+xml" pkg:name="/_rels/rels">
    - <pkg:xmlData>
      - <Relationships xmlns="http://schemas.openxmlformats.org/package/2006/relationships">
        <Relationship Target="docProps/app.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/extended-properties"
          Id="rId3"/>
        <Relationship Target="docProps/core.xml" Type="http://schemas.openxmlformats.org/package/2006/relationships/metadata/core-properties"
          Id="rId2"/>
        <Relationship Target="word/document.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/officeDocument"
          Id="rId1"/>
      </Relationships>
    </pkg:xmlData>
  </pkg:part>
  - <pkg:part pkg:padding="256" pkg:contentType="application/vnd.openxmlformats-package.relationships+xml" pkg:name="/word/_rels/document.xml.rels">
    - <pkg:xmlData>
      - <Relationships xmlns="http://schemas.openxmlformats.org/package/2006/relationships">
        <Relationship Target="media/image4.png" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image" Id="rId13"/>
        <Relationship Target="media/image5.png" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image" Id="rId18"/>
        <Relationship Target="https://doi.org/10.3923/jm.2007.538.544"
          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId26" TargetMode="External"/>
        <Relationship Target="fontTable.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/fontTable" Id="rId39"/>
        <Relationship Target="charts/chart2.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/chart" Id="rId21"/>
        <Relationship Target="https://digital.csic.es/handle/10261/51270"
          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId34" TargetMode="External"/>
        <Relationship Target="media/image1.jpeg" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image" Id="rId7"/>
        <Relationship Target="styles.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/styles" Id="rId2"/>
        <Relationship Target="header2.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/header" Id="rId16"/>
        <Relationship Target="charts/chart1.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/chart" Id="rId20"/>
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          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId29" TargetMode="External"/>
        <Relationship Target="theme/theme1.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/theme" Id="rId41"/>
        <Relationship Target="numbering.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/numbering" Id="rId1"/>
        <Relationship Target="endnotes.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/endnotes" Id="rId6"/>
        <Relationship Target="https://www.najfnr.org" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink"
          Id="rId11" TargetMode="External"/>
        <Relationship Target="https://doi.org/10.3923/biotech.2006.183.188"
          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId24" TargetMode="External"/>
        <Relationship Target="https://doi.org/10.11604/pamj.2017.27.22.9707"
          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId32" TargetMode="External"/>
        <Relationship Target="https://doi.org/10.5281/zenodo.3560326"
          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId37" TargetMode="External"/>
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        <Relationship Target="footnotes.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footnotes" Id="rId5"/>
        <Relationship Target="footer1.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer" Id="rId15"/>
        <Relationship Target="https://doi.org/10.1016/j.foodchem.2010.03.026"
          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId23" TargetMode="External"/>
        <Relationship Target="https://doi.org/10.1023/B:QUAL.0000040315.02916.a3"
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        <Relationship Target="footer3.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer" Id="rId36"/>
        <Relationship Target="https://www.najfnr.org" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink"
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        <Relationship Target="media/image6.png" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image" Id="rId19"/>
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          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId31" TargetMode="External"/>
        <Relationship Target="webSettings.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/webSettings" Id="rId4"/>
        <Relationship Target="media/image3.png" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image" Id="rId9"/>
        <Relationship Target="header1.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/header" Id="rId14"/>
        <Relationship Target="charts/chart3.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/chart" Id="rId22"/>
        <Relationship Target="https://www.ajol.info/index.php/ajb/article/view/57129"
          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId27" TargetMode="External"/>
        <Relationship Target="https://doi.org/10.1023/A:1011131929588"
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        <Relationship Target="media/image2.jpeg" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image" Id="rId8"/>
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        <Relationship Target="mailto:funmiyeni@yahoo.co.uk" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink"
          Id="rId12" TargetMode="External"/>
        <Relationship Target="footer2.xml" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/footer" Id="rId17"/>
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        <Relationship Target="https://doi.org/10.1007/978-3-319-78030-6_31"
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        <Relationship Target="https://doi.org/10.5281/zenodo.3560326"
          Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/hyperlink" Id="rId38" TargetMode="External"/>
      </Relationships>
    </pkg:xmlData>
  </pkg:part>
  - <pkg:part pkg:contentType="application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml" pkg:name="/word/document.xml">
    - <pkg:xmlData>
      -
    </pkg:xmlData>
  </pkg:part>

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<w:document mc:Ignorable="w14 w15 w16se w16cid w16 w16cex wp14"
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xmlns:wne="http://schemas.microsoft.com/office/word/2006/wordml" xmlns:wpi="http://schemas.microsoft.com/office/word/2010/wordprocessingInk"
xmlns:wpg="http://schemas.microsoft.com/office/word/2010/wordprocessingGroup"
xmlns:w16se="http://schemas.microsoft.com/office/word/2015/wordml/symex" xmlns:w16="http://schemas.microsoft.com/office/word/2018/wordml"
xmlns:w16cid="http://schemas.microsoft.com/office/word/2016/wordml/cid"
xmlns:w16cex="http://schemas.microsoft.com/office/word/2018/wordml/cex" xmlns:w15="http://schemas.microsoft.com/office/word/2012/wordml"
xmlns:w14="http://schemas.microsoft.com/office/word/2010/wordml" xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
xmlns:w10="urn:schemas-microsoft-com:office:word" xmlns:wp="http://schemas.openxmlformats.org/drawingml/2006/wordprocessingDrawing"
xmlns:wp14="http://schemas.microsoft.com/office/word/2010/wordprocessingDrawing" xmlns:v="urn:schemas-microsoft-com:vml"
xmlns:m="http://schemas.openxmlformats.org/officeDocument/2006/math"
xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" xmlns:o="urn:schemas-microsoft-com:office:office"
xmlns:am3d="http://schemas.microsoft.com/office/drawing/2017/model3d" xmlns:aink="http://schemas.microsoft.com/office/drawing/2016/ink"
xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
xmlns:cx8="http://schemas.microsoft.com/office/drawing/2016/5/14/chartex"
xmlns:cx7="http://schemas.microsoft.com/office/drawing/2016/5/13/chartex"
xmlns:cx6="http://schemas.microsoft.com/office/drawing/2016/5/12/chartex"
xmlns:cx5="http://schemas.microsoft.com/office/drawing/2016/5/11/chartex"
xmlns:cx4="http://schemas.microsoft.com/office/drawing/2016/5/10/chartex"
xmlns:cx3="http://schemas.microsoft.com/office/drawing/2016/5/9/chartex"
xmlns:cx2="http://schemas.microsoft.com/office/drawing/2015/10/21/chartex"
xmlns:cx1="http://schemas.microsoft.com/office/drawing/2015/9/8/chartex" xmlns:cx="http://schemas.microsoft.com/office/drawing/2014/chartex"
xmlns:wpc="http://schemas.microsoft.com/office/word/2010/wordprocessingCanvas">
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      w14:paraId="4A8781DC">
      <w:pPr>
        <w:spacing w:after="0"/>
        <w:ind w:hanging="10" w:left="235"/>
        <w:rPr>
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            Semilight"/>
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          <w:sz w:val="16"/>
          <w:szCs w:val="16"/>
          <w:lang w:val="en-US"/>
        </w:rPr>
      </w:pPr>
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      <w:bookmarkEnd w:id="0"/>
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        <w:rPr>
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          <w:szCs w:val="16"/>
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        </w:rPr>
        <w:t>The North African Journal of Food and Nutr</w:t>
      </w:r>
      <w:r w:rsidRPr="00A13B9D" w:rsidR="00D658F4">
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      </w:r>
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        <w:t></w:t>
      </w:r>
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    </w:p>
  </w:body>

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        <w:t>13</w:t>
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</w:p>
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  w14:parId="4B8DBD5F">
  - <w:pPr>
    <w:spacing w:after="0"/>
    <w:ind w:hanging="10" w:left="235"/>
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
      <w:b/>
      <w:color w:themeShade="80" w:themeColor="accent6" w:val="385623"/>
      <w:spacing w:val="20"/>
      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
- <w:r>
  - <w:rPr>
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    <w:sz w:val="16"/>
    <w:u w:val="single" w:color="0563C1"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:fldChar w:fldCharType="begin"/>
</w:r>
- <w:r>
  - <w:rPr>
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      w:ascii="Leelawadee UI Semilight"/>
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    <w:sz w:val="16"/>
    <w:u w:val="single" w:color="0563C1"/>
    <w:lang w:val="en-US"/>
  </w:rPr>
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</w:r>
- <w:r w:rsidRPr="00A937DC">
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    <w:sz w:val="16"/>
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    <w:lang w:val="en-US"/>
  </w:rPr>
  <w:instrText xml:space="preserve">https://doi.org/10.5281/zenodo.3560326 </w:instrText>
</w:r>
- <w:r>
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    <w:sz w:val="16"/>
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- <w:r w:rsidRPr="00296CF5">
  - <w:rPr>
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        <w:t>https://doi.org/10.5281/zenodo.</w:t>
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        </w:rPr>
        <w:t>3560326</w:t>
    </w:r>
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                <w:sz w:val="16"/>
                <w:lang w:val="en-US"/>
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        </w:r>
    </w:del>
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                  w:ascii="Leelawadee UI Semilight"/>
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                <w:lang w:val="en-US"/>
            </w:rPr>
            <w:delText xml:space="preserve"></w:delText>
        </w:r>
    </w:del>
</w:p>
- <w:p w:rsidP="00B87D58" w:rsidRDefault="00B87D58" w:rsidRPr="00A13B9D" w:rsidR="00B87D58" w14:textId="7D3790E2"
  w14:paraId="17A6C74C">
    - <w:pPr>
        <w:spacing w:after="0"/>
        <w:ind w:hanging="10" w:left="255" w:right="-406"/>
        - <w:rPr>
            <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
            <w:b/>
            <w:spacing w:val="20"/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
            <w:lang w:val="en-US"/>
        </w:rPr>
    </w:pPr>
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        - <w:rPr>
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            <w:lang w:eastAsia="en-GB" w:val="en-GB"/>
        </w:rPr>
        - <w:drawing>
            - <wp:anchor wp14:editId="236D1B84" wp14:anchorId="3349707C" allowOverlap="1" layoutInCell="1" locked="0" behindDoc="0"
              relativeHeight="251662336" simplePos="0" distR="114300" distL="114300" distB="0" distT="0">
                <wp:simplePos y="0" x="0"/>
                - <wp:positionH relativeFrom="column">
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                </wp:positionH>
                - <wp:positionV relativeFrom="paragraph">
                    <wp:posOffset>5715</wp:posOffset>
                </wp:positionV>
                <wp:extent cx="1000408" cy="254025"/>
                <wp:effectExtent r="9525" b="0" t="0" l="0"/>
                <wp:wrapNone/>
            </wp:anchor>
        </w:drawing>
    </w:r>

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        <wp:docPr name="Picture 5" id="5" descr="Related image"/>
    - <wp:cNvGraphicFramePr>
        <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
    </wp:cNvGraphicFramePr>
    - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
        - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
            - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">
                - <pic:nvPicPr>
                    <pic:cNvPr name="Picture 1" id="0" descr="Related image"/>
                    - <pic:cNvPicPr>
                        <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
                    </pic:cNvPicPr>
                </pic:nvPicPr>
                - <pic:blipFill>
                    - <a:blip estate="print" r:embed="rId7">
                        - <a:extLst>
                            - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
                                <a:l4:useLocalDpi val="0" xmlns:a:l4="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">
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                    </a:xfrm>
                    - <a:prstGeom prst="rect">
                        <a:avLst/>
                    </a:prstGeom>
                    <a:noFill/>
                    - <a:ln>
                        <a:noFill/>
                    </a:ln>
                </pic:spPr>
            </pic:pic>
        </a:graphicData>
    </a:graphic>
    </wp:anchor>
    </w:drawing>
</w:r>
- <w:r w:rsidRPr="00A13B9D">
    - <w:rPr>
        <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
        <w:b/>
        <w:color w:themeShade="80" w:themeColor="accent6" w:val="385623"/>
        <w:spacing w:val="20"/>
        <w:sz w:val="24"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Original Article</w:t>
</w:r>
- <w:r w:rsidRPr="00A13B9D">
    - <w:rPr>
        <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
        <w:b/>
        <w:color w:themeShade="80" w:themeColor="accent6" w:val="385623"/>
        <w:spacing w:val="20"/>
        <w:sz w:val="24"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:tab/>
</w:r>
- <w:r w:rsidRPr="00A13B9D">
    - <w:rPr>
        <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
        <w:b/>
        <w:color w:themeShade="80" w:themeColor="accent6" w:val="385623"/>
        <w:spacing w:val="20"/>
        <w:sz w:val="24"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:tab/>
</w:r>
- <w:r w:rsidRPr="00A13B9D">
    - <w:rPr>
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        <w:b/>
        <w:color w:themeShade="80" w:themeColor="accent6" w:val="385623"/>
        <w:spacing w:val="20"/>
        <w:sz w:val="24"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
    <w:tab/>
  </w:r>
  - <w:del w:id="4" w:date="2019-12-15T23:11:00Z" w:author="Meghit Boumediene Khaled">
    - <w:r w:rsidRPr="00E0197D" w:rsidR="00E0197D" w:rsidDel="00224432">
      - <w:rPr>
        <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
        <w:b/>
        <w:color w:themeShade="80" w:themeColor="accent6" w:val="385623"/>
        <w:spacing w:val="20"/>
        <w:sz w:val="24"/>
        <w:highlight w:val="yellow"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:delText>PROFF Version</w:delText>
    </w:r>
  </w:del>
  - <w:r w:rsidRPr="00A13B9D">
    - <w:rPr>
      <w:rFonts w:cs="Calibri" w:hAnsi="Arial Black" w:eastAsia="Calibri" w:ascii="Arial Black"/>
      <w:b/>
      <w:color w:themeShade="80" w:themeColor="accent6" w:val="385623"/>
      <w:spacing w:val="20"/>
      <w:sz w:val="24"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:tab/>
  </w:r>
</w:p>
- <w:p w:rsidP="00B87D58" w:rsidRDefault="00F83687" w:rsidRPr="00A13B9D" w:rsidR="00B87D58" w14:textId="3D4264AA" w14:paraId="743863A8">
  - <w:pPr>
    <w:spacing w:after="161"/>
    <w:ind w:left="212" w:right="-28"/>
    - <w:rPr>
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      <w:color w:val="000000"/>
      <w:sz w:val="20"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="00A13B9D">
    - <w:rPr>
      <w:noProof/>
      <w:lang w:eastAsia="en-GB" w:val="en-GB"/>
    </w:rPr>
    - <mc:AlternateContent>
      - <mc:Choice Requires="wps">
        - <w:drawing>
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            </wp:positionH>
            - <wp:positionV relativeFrom="paragraph">
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            </wp:positionV>
            <wp:extent cx="2014734" cy="151765"/>
            <wp:effectExtent r="0" b="0" t="0" l="0"/>
            <wp:wrapNone/>
            <wp:docPr name="Rectangle 4" id="4"/>
            <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="2014734" cy="151765"/>
                      </a:xfrm>
                      - <a:prstGeom prst="rect">
                        <a:avLst/>
                      </a:prstGeom>
                      - <a:ln>
                        <a:noFill/>

```

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w14:textId="77777777" w14:paraId="105AA9D0">
  - <w:pPr>
    <w:jc w:val="center"/>
    - <w:rPr>
      <w:rFonts w:hAnsi="Freestyle Script" w:ascii="Freestyle Script"/>
      <w:color w:themeShade="BF" w:themeColor="accent6" w:val="538135"/>
      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
  </w:pPr>
  - <w:r w:rsidRPr="008612CD">
    - <w:rPr>
      <w:rFonts w:hAnsi="Freestyle Script" w:ascii="Freestyle Script"/>
      <w:color w:themeShade="BF" w:themeColor="accent6" w:val="538135"/>
      <w:sz w:val="16"/>
      <w:szCs w:val="16"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t>Making Nutrition a Development Priority in Africa</w:t>
  </w:r>
</w:p>
</w:txbxContent>
</v:textbox>
<w10:wrap anchorx="page"/>
</v:rect>
</w:pict>
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</mc:AlternateContent>
</w:r>
- <w:r w:rsidRPr="00A13B9D" w:rsidR="00B87D58">
  - <w:rPr>
    <w:rFonts w:cs="Calibri" w:hAnsi="Century Gothic" w:eastAsia="Calibri" w:ascii="Century Gothic"/>
    <w:b/>
    <w:noProof/>
    <w:color w:themeShade="80" w:themeColor="accent6" w:val="385623"/>
    <w:sz w:val="30"/>
    <w:szCs w:val="30"/>
    <w:lang w:eastAsia="en-GB" w:val="en-GB"/>
  </w:rPr>
  - <mc:AlternateContent>
    - <mc:Choice Requires="wps">
      - <w:drawing>
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behindDoc="0" relativeHeight="251663360" simplePos="0" distR="114300" distL="114300" distB="45720"
distT="45720">
          <wp:simplePos y="0" x="0"/>
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            <wp:posOffset>4512826</wp:posOffset>
          </wp:positionH>
          - <wp:positionV relativeFrom="paragraph">
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          </wp:positionV>
          <wp:extent cx="937826" cy="212757"/>
          <wp:effectExtent r="0" 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="937826" cy="212757"/>
                </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:ln>
              </wps:spPr>
            </a:graphicData>
          </wps:wsp>
        </a:graphic>
      </mc:Choice>
    </mc:AlternateContent>
  </w:r>
</w:r>

```

```

        <a:tailEnd/>
    </a:ln>
</wps:spPr>
- <wps:txbx>
    - <w:txbxContent>
        - <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidRP="00EE78E2"
            w:rsidR="00C8564B" w:14:textId="77777777" w:14:paraId="3EAA6911">
            - <w:pPr>
                <w:spacing w:after="0" w:lineRule="auto" w:line="240"/>
                <w:ind w:hanging="11" w:left="11"/>
                <w:jc w:val="right"/>
            - <w:rPr>
                <w:rFonts w:cstheme="majorHAnsi" w:hAnsiTheme="majorHAnsi"
                    w:asciiTheme="majorHAnsi"/>
                <w:color w:themeShade="BF" w:themeColor="accent6" w:val="538135"/>
                <w:sz w:val="16"/>
                <w:szCs w:val="16"/>
            </w:rPr>
        </w:pPr>
        <w:proofErr w:type="spellStart"/>
        - <w:r w:rsidRP="00EE78E2">
            - <w:rPr>
                <w:rFonts w:cstheme="majorHAnsi" w:hAnsiTheme="majorHAnsi"
                    w:asciiTheme="majorHAnsi"/>
                <w:color w:themeShade="BF" w:themeColor="accent6" w:val="538135"/>
                <w:sz w:val="16"/>
                <w:szCs w:val="16"/>
            </w:rPr>
            <w:t>elSSN</w:t>
        </w:r>
        <w:proofErr w:type="spellEnd"/>
        - <w:r w:rsidRP="00EE78E2">
            - <w:rPr>
                <w:rFonts w:cstheme="majorHAnsi" w:hAnsiTheme="majorHAnsi"
                    w:asciiTheme="majorHAnsi"/>
                <w:color w:themeShade="BF" w:themeColor="accent6" w:val="538135"/>
                <w:sz w:val="16"/>
                <w:szCs w:val="16"/>
            </w:rPr>
            <w:t>: 2588-1582</w:t>
        </w:r>
    </w:txbxContent>
</wps:txbx>
- <wps:bodyPr b:lns="45720" r:lns="91440" t:lns="45720" l:lns="91440" wrap="square" vert="horz"
    anchorCtr="0" anchor="t" 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>
    - <w:pict>
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            coordsize="21600,21600">
            <v:stroke jointstyle="miter"/>
            <v:path o:connecttype="rect" gradientshapeok="t"/>
        </v:shapetype>
        - <v:shape id="Text Box 2" stroked="f"
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            OITrorhX2lFEilmcO2RdNtjC5xDF9pCuTyYBB5bi6bQ4syoJ3g9WQ0ymailLzg5KdCXIKLjvcW893
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            22YiTra2kYMu1HltQD30/bPm3wwYN0x18gb45AdQI1tp5j/sFB2T0FQ7R0nTNEV3j6o9feQzroli
            OWA14Fm+Q8a1a8+Bvu/d/dMb2JY5uiPbhG/kt4cqGU/er3pevwCAAD//wMAUESDBBQABgAIAAA
            IQDLzNgLIwIAACMEAAAOAAAAAZHJzL2Uyb0RvYy54bWysU9tu2zAMfR+wfX0vjjxkiY14hRdugwD
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```

```

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bWxQSwECLQAUAAAYACAAAACEAH32xRt4AAAAIAQAADwAAAAAAAAAAAAAAAAAB9BAAAZHJzL2Rvd2
ZXZYueG1sUEsFBgAAAAEAAQA8wAAAlgFAAAAAA== " style="position:absolute;left:0;text-align:left;margin-
left:355.35pt;margin-top:4.85pt;width:73.85pt;height:16.75pt;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:absolute;mso-
position-horizontal-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"
o:spid="_x0000_s1027" type="#_x0000_t202">
  - <v:textbox>
    - <w:txbxContent>
      - <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidRP="00EE78E2" w:rsidR="00C8564B"
        w14:textId="77777777" w14:paraId="3EAA6911">
          - <w:pPr>
            <w:spacing w:after="0" w:lineRule="auto" w:line="240"/>
            <w:ind w:hanging="11" w:left="11"/>
            <w:jc w:val="right"/>
          - <w:rPr>
            <w:rFonts w:cstheme="majorHAnsi" w:hAnsiTheme="majorHAnsi"
              w:asciiTheme="majorHAnsi"/>
            <w:color w:themeShade="BF" w:themeColor="accent6" w:val="538135"/>
            <w:sz w:val="16"/>
            <w:szCs w:val="16"/>
          - <w:rPr>
            <w:pPr>
              - <w:r w:rsidRP="00EE78E2">
                - <w:rPr>
                  <w:rFonts w:cstheme="majorHAnsi" w:hAnsiTheme="majorHAnsi"
                    w:asciiTheme="majorHAnsi"/>
                  <w:color w:themeShade="BF" w:themeColor="accent6" w:val="538135"/>
                  <w:sz w:val="16"/>
                  <w:szCs w:val="16"/>
                - <w:rPr>
                  <w:t>eISSN: 2588-1582</w:t>
                - <w:r>
                  <w:p>
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                      </v:textbox>
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                    </v:shape>
                    <w:pict>
                      </mc:Fallback>
                    </mc:AlternateContent>
                  </w:r>
                - <w:r w:rsidRP="00A13B9D" w:rsidR="00B87D58">
                  - <w:rPr>
                    <w:noProof>
                    <w:lang w:eastAsia="en-GB" w:val="en-GB"/>
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                - <w:drawing>
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                    </wp:positionH>
                    - <wp:positionV relativeFrom="paragraph">
                      <wp:posOffset>57150</wp:posOffset>
                    </wp:positionV>
                    <wp:extent cx="717550" cy="931229"/>
                    <wp:effectExtent r="6350" b="2540" t="0" l="0"/>
                    <wp:wrapNone/>
                    <wp:docPr name="Picture 7" id="7"/>
                  - <wp:cNvGraphicFramePr>
                    <a:graphicFrameLocks noChangeAspect="1" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"/>
                    </wp:cNvGraphicFramePr>
                  - <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
                    - <a:graphicData uri="http://schemas.openxmlformats.org/drawingml/2006/picture">
                      - <pic:pic xmlns:pic="http://schemas.openxmlformats.org/drawingml/2006/picture">

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- <pic:nvPicPr>
  <pic:cNvPr name="Picture 1" id="0"/>
  - <pic:cNvPicPr>
    <a:picLocks noChangeAspect="1" noChangeArrowheads="1"/>
  </pic:cNvPicPr>
</pic:nvPicPr>
- <pic:blipFill>
  - <a:blip cstate="print" r:embed="rId8">
    - <a:extLst>
      - <a:ext uri="{28A0092B-C50C-407E-A947-70E740481C1C}">
        <a14:useLocalDpi val="0"
          xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main"/>
      </a:ext>
    </a:extLst>
  </a:blip>
  <a:srcRect/>
  - <a:stretch>
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  </a:stretch>
</pic:blipFill>
- <pic:spPr bwMode="auto">
  - <a:xfrm>
    <a:off y="0" x="0"/>
    <a:ext cx="717550" cy="931229"/>
  </a:xfrm>
  - <a:prstGeom prst="rect">
    <a:avLst/>
  </a:prstGeom>
  <a:noFill/>
  - <a:ln>
    <a:noFill/>
  </a:ln>
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</a:custGeom>
- <a:solidFill>
  <a:srgbClr val="000000"/>
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- <a:ln w="0" cap="flat">
  <a:noFill/>
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- <a:graphic xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main">
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- <pic:spPr bwMode="auto">
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                            <a:avLst/>
                          </a:prstGeom>
                          - <a:ln>
                            <a:noFill/>
                          </a:ln>
                        </wps:spPr>
                      - <wps:txbx>
                        - <w:txbxContent>
                          -

```

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        <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidR="00C8564B"
        w14:textId="77777777" w14:paraId="5BCF5100">
          - <w:r>
            <w:t xml:space="preserve"></w:t>
          </w:r>
        </w:p>
      </w:txbxContent>
    </wps:txbx>
  - <wps:bodyPr rtlCol="0" bIns="0" rIns="0" tIns="0" lIns="0" vert="horz"
    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="00B87D58" w:rsidRDefault="00C8564B" w:rsidR="00C8564B"
      w14:textId="77777777" w14:paraId="6B569B17">
        - <w:r>
          <w:t xml:space="preserve"></w:t>
        </w:r>
      </w:p>
    </w:txbxContent>
  </wps:txbx>
  - <wps:bodyPr rtlCol="0" bIns="0" rIns="0" tIns="0" lIns="0" vert="horz"
    horzOverflow="overflow">
    <a:noAutofit/>
  </wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 149" id="149"/>
  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
      <a:off y="975365" x="2990669"/>
      <a:ext cx="42144" cy="186477"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidR="00C8564B"
      w14:textId="77777777" w14:paraId="3D879BEC">
        - <w:r>
          <w:t xml:space="preserve"></w:t>
        </w:r>
      </w:p>
    </w:txbxContent>
  </wps:txbx>
  - <wps:bodyPr rtlCol="0" bIns="0" rIns="0" tIns="0" lIns="0" vert="horz"
    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">

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        <a:avLst/>
      </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidRPr="0073549D"
      w:rsidR="00C8564B" w14:textId="77777777" w14:paraId="3300E65F">
        - <w:pPr>
          <w:je w:val="center"/>
          - <w:rPr>
            <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
            <w:sz w:val="20"/>
            <w:szCs w:val="20"/>
            <w:lang w:val="en-US"/>
          </w:rPr>
        </w:pPr>
        - <w:r w:rsidRPr="0073549D">
          - <w:rPr>
            <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
            <w:sz w:val="20"/>
            <w:szCs w:val="20"/>
            <w:lang w:val="en-US"/>
          </w:rPr>
          <w:t>Contents lists available at</w:t>
        </w:r>
      </w:p>
    </w:txbxContent>
  </wps:txbx>
- <wps:bodyPr rtlCol="0" blns="0" rIns="0" tIns="0" lIns="0" vert="horz"
  horzOverflow="overflow">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 242" id="242"/>
  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
      <a:off y="555884" x="3543881"/>
      <a:ext cx="38021" cy="168235"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidR="00C8564B"
      w14:textId="77777777" w14:paraId="48A0E367">
      - <w:r>
        <w:t xml:space="preserve"></w:t>
      </w:r>
    </w:p>
  </w:txbxContent>
</wps:txbx>
- <wps:bodyPr rtlCol="0" blns="0" rIns="0" tIns="0" lIns="0" vert="horz"
  horzOverflow="overflow">
  <a:noAutofit/>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Shape 13829" id="13829"/>
  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
      <a:off y="673229" x="-43766"/>
      <a:ext cx="5981064" cy="365760"/>
    </a:xfrm>
    - <a:custGeom>
      <a:avLst/>
      <a:gdLst/>
      <a:ahLst/>
      <a:cxnLst/>
      <a:rect r="0" b="0" t="0" l="0"/>
      - <a:pathLst>
        - <a:path w="5467472" h="365760">

```

```

- <a:moveTo>
  <a:pt y="0" x="0"/>
</a:moveTo>
- <a:lnTo>
  <a:pt y="0" x="5467472"/>
</a:lnTo>
- <a:lnTo>
  <a:pt y="365760" x="5467472"/>
</a:lnTo>
- <a:lnTo>
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</a:lnTo>
- <a:lnTo>
  <a:pt y="0" x="0"/>
</a:lnTo>
</a:path>
</a:pathLst>
</a:custGeom>
- <a:solidFill>
  - <a:srgbClr val="70AD47">
    <a:lumMod val="40000"/>
    <a:lumOff val="60000"/>
  </a:srgbClr>
</a:solidFill>
- <a:ln w="0" cap="rnd">
  <a:noFill/>
  <a:miter lim="127000"/>
</a:ln>
<a:effectLst/>
</wps:spPr>
</wps:bodyPr>
</wps:wsp>
- <wps:wsp>
  <wps:cNvPr name="Rectangle 244" id="244"/>
  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
      <a:off y="697360" x="1835110"/>
      <a:ext cx="2933739" cy="168235"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
- <wps:txbx>
  - <w:txbxContent>
    - <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidRPr="0073549D"
      w:rsidR="00C8564B" w:l4:textId="77777777" w:l4:paraId="513C3FBC">
      - <w:pPr>
        - <w:rPr>
          <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
          <w:sz w:val="20"/>
          <w:szCs w:val="20"/>
          <w:lang w:val="en-US"/>
        </w:rPr>
      </w:pPr>
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:sz w:val="20"/>
      <w:szCs w:val="20"/>
      <w:lang w:val="en-US"/>
    </w:rPr>
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  </w:r>
  - <w:hyperlink r:id="rId10" w:history="1">
    - <w:r w:rsidRPr="0073549D">
      - <w:rPr>
        <w:rStyle w:val="Hyperlink"/>
        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t>https://www.najfnr.org</w:t>
    </w:r>
  </w:hyperlink>
  - <w:r w:rsidRPr="0073549D">
    - <w:rPr>
      <w:rFonts w:hAnsi="Tw Cen MT" w:ascii="Tw Cen MT"/>
      <w:sz w:val="20"/>
      <w:szCs w:val="20"/>
    </w:rPr>
  </w:r>

```

```

        <w:lang w:val="en-US"/>
      </w:rPr>
      <w:t xml:space="preserve"></w:t>
    </w:r>
  </w:p>
  </w:txbxContent>
</w:txbx>
- <wps:bodyPr rtlCol="0" blns="0" rIns="0" tIns="0" lIns="0" vert="horz"
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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="38021" cy="168235"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
  - <wps:txbx>
    - <w:txbxContent>
      - <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidR="00C8564B"
        w14:textId="77777777" w14:paraId="55CA1D13">
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    </w:txbxContent>
  </wps:txbx>
  - <wps:bodyPr rtlCol="0" blns="0" rIns="0" tIns="0" lIns="0" vert="horz"
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    <a:noAutofit/>
  </wps:bodyPr>
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- <wps:wsp>
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  <wps:cNvSpPr/>
  - <wps:spPr>
    - <a:xfrm>
      <a:off y="906785" x="5902145"/>
      <a:ext cx="42144" cy="186477"/>
    </a:xfrm>
    - <a:prstGeom prst="rect">
      <a:avLst/>
    </a:prstGeom>
    - <a:ln>
      <a:noFill/>
    </a:ln>
  </wps:spPr>
  - <wps:txbx>
    - <w:txbxContent>
      - <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidR="00C8564B"
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        </w:r>
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  </wps:txbx>
  - <wps:bodyPr rtlCol="0" blns="0" rIns="0" tIns="0" lIns="0" vert="horz"
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  </wps:bodyPr>
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</wpg:wgp>
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</a:graphic>
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</w:drawing>
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- <mc:Fallback>
  - <w:pict>
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```

```

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coordorigin="-437,396">
- <rect id="Rectangle 147" stroked="f" filled="f"
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style="position:absolute; left:29906; top:396; width:422; height:1865; visibility:visible; mso-wrap-
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- <v:textbox inset="0,0,0,0">
- <w:txbxContent>
- <w:p w:rsidP="00B87D58" w:rsidRDefault="00C8564B" w:rsidR="00C8564B"
w14:textId="77777777" w14:paraId="5BCF5100">
- <w:r>
<w:t xml:space="preserve"></w:t>
</w:r>
<w:p>
</w:txbxContent>
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</v:rect>
- <rect id="Rectangle 148" stroked="f" filled="f"
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</w:r>
<w:proofErr w:type="spellStart"/>
- <w:r w:rsidRPr="00A13B9D">
- <w:rPr>
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<w:i/>
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<w:sz w:val="30"/>
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</w:rPr>
<w:t>Ogi</w:t>

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- <w:r w:rsidRPr="00A13B9D">
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  <w:t>E. coli</w:t>
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  - <w:rPr>
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  - <w:rPr>
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    </w:rPr>
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</w:r>
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- <w:r w:rsidRPr="00A13B9D">
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</w:r>
- <w:r w:rsidRPr="00A13B9D" w:rsidR="001F4A7C">
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</w:r>
- <w:r w:rsidRPr="00A13B9D">
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        <w:bCs/>
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- <w:r w:rsidRPr="00A13B9D">
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```

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    </w:rPr>
    <w:t>Qudus</w:t>
</w:r>
<w:proofErr w:type="spellEnd"/>
- <w:r w:rsidRPr="00A13B9D">
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        <w:sz w:val="20"/>
        <w:lang w:val="en-US"/>
    </w:rPr>
    <w:t xml:space="preserve">Olamide</w:t>
</w:r>
- <w:r w:rsidRPr="00A13B9D" w:rsidR="00A13B9D">
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        <w:bCs/>
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</w:r>
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```

```

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        <w:color w:themeColor="text1" w:val="000000"/>
        <w:sz w:val="20"/>
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- <w:r w:rsidRPr="00A13B9D" w:rsidR="001F4A7C">
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        <w:bCs/>
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</w:r>
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</w:p>
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- <w:p w:rsidP="00B87D58" w:rsidRDefault="00B87D58" w:rsidRPr="00A13B9D" w:rsidR="00B87D58" w14:textId="77777777"
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 * Corresponding author info:
 D
 r.
 Funmilola
 A. AYENI
 Email:
 funmiyeni@yahoo.co.uk
 Tel.
 +
 234
 7036138816
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 https://doi.org/10.5281/zenodo.
 3560326
 Article edited by:
 Dr. Mokhtar BENABDERRAHMANE
 Dr.
 Mustapha DJELLOULI
 </w:tc>
 Background
 :
 Ogi
 constitutes
 a
 rich
 source of lactic acid bacteria (LAB) with associated health benefits to human
 s
 through antimicrobial activities. However,
 the
 high viability of LAB in
 Ogi
 and its supernatant (
 Omidun
) is essential
 .
 Aims
 :
 This study was carried out to
 assess
 the viability of LAB in various forms of modified and natural
 Ogi
 and the antimicrobial properties of
 Omidun
 against diarrhoeagenic
 E coli

Methods and Material

The viability of LAB was assessed in fermented Ogi slurry and Omidun for one month and also freeze-dried Ogi with and without added bacterial strains for two months.

A further 10 days viability study of modified Omidun

refrigerated Omidun

and normal

Ogi

was

performed

The antimicrobial effects of modified

O

midun

against five selected strains of diarrhoeagenic

E. coli

(DEC) were evaluated by

the

co

-

culture method

Results

:

Both drying methods significantly affected carotenoids and phenolic compounds.

The

Ogi

slurry had viable LAB only for 10 days after which, there was

a

succession of fungi and yeast.

Omidun

showed 2 log

10

cfu/ml reduction of LAB count each week and the freeze

-

dried

Ogi

showed progressive reduction in viability. Refrigerated

Omidun

has little viable LAB, while higher viability was

seen

in modified

Omidun

(≥ 2 log

cfu

/ml) than normal

Omidun

.

M

odified

Omidun

intervention

led

to 2-4 log reduction in diarrhoeagenic

E. coli

strains and total inactivation of shigella-toxin producing

E. coli

H66D strain in co

-

culture

.

Conclusions

:

The consumption of

Ogi

should be within 10 days of milling using modified

Omidun

.

There
are
practical potentials of consumption of
Omidun
in destroying
E. coli
strains implicated in diarrhea

.
Keywords
:
Ogi
,
Omidun
, lactic acid bacteria, diarrhoeagenic
Escheric
h
ia coli
strains, Viability
.

</w:tr>
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INTRODUCTION

Fermentation preserves foods by converting carbohydrates to alcohol and organic acids [

1
]. Microbes such as lactic acid bacteria (LAB)
are involved in natural fermentation processes that produce fermented foods. [

2
,
3
]. The influences of the fermentation microbes on the nature of the food and their antimicrobial properties
are
well characterized [

4
-
6

].
Aderiye
et al
, [

7
] described the use of fermented cereals as foods with enhanced health properties e.g. hypolipidemic, hepatoprotective, antibacterial
,
and treatment of gastroenteritis in man and animals

.
WHO [

8
] described probiotics as
“

live microorganisms which when administered in adequate amounts confer a health benefit on the host
”
i.e. viability and consumption of sufficient numb
ers are an inherent property of probiotics. One of the best
uses
for probiotics is
the
reduction of infectious diarrhea and diarrhea associated with antibiotic use.

It
Probiotics
shorten
diarrhea
episodes. Diarrhoeagenic
Escherichia coli
strains are among the commonest causative agents of diarrhea and are divided into enteropathogenic
E. coli
(EPEC), enterotoxigenic
E. coli
(ETEC), enterohaemorrhagic
E. coli
(EHEC),
enteroinvasive
E. coli
(EIEC),
and
enteroaggregative
E. coli
(EAEC)

.
Some
d
eveloping countries
,
such as

Nigeria
,
are
still struggling against
increasing morbidity and mortality of diarrhea
[
infections in young children. Different home remedies are usually employed to combat diarrhea menace.
The
use of
Omidun
(the supernatant on
Ogi
)
constitutes an example
.
Ogi
is a fermented cereal gruel widely
consumed
in Western Nigeria
in
breakfast and
in
traditional infant
weaning food [

9
].
Aderiye
and
Laleye
, [

10
] stated that
,
although some communities in south-western Nigeria administered uncooked
O
gi
to people with diarrhea to reduce the frequency of stooling, the scientific proof for this claim is lacking
.
Several authors have described functional, nutritional and antibacterial properties of
Ogi
[

11
-
15
], but
there is
insufficient data
on the viability of LAB in different components of
Ogi
over a period of time. Therefore, this study was designed to study the component of
Ogi
that has the most viable
LAB
over a period of time and the antimicrobial properties of
Omidun
against different strains of diarrhoeagenic
Escherichia coli
.
MATERIAL AND METHODS
Bacterial strains
Diarrhoeagenic
E. coli
strains
All
diarrhoeagenic
strains
of
E. coli
were
obtained
from
the
Molecular
Microbiology
Unit,
Department
of Pharmaceutical
Microbiology
,
Faculty
of
Pharmacy

,
University
of Ibadan, Nigeria. Five
different
strains
of
Escherichia coli
(
Enterohaemorrhagic
E
.
coli
(
EAEC
LL
D
25D),
Enterotoxigenic
E
.
coli
(ETEC
LW
D21A), Shiga-
toxin
producing
E. coli
(STEC
LL
H74B),
Enteroinvasive
E. coli
(EIEC
LW
D21E) and
Enteropathogenic
E. coli
(EPEC
LL
H78D
)
were
used
for the
modified
Omidun
co
-
culture
experiment
.
Lactobacilli strains
Lactobacilli strains
Two strains of already characterized LAB;
Lactobacillus
paraplantarum
AI3
,
and
Lactobacillus
pentosus
AO82 with good antimicrobial properties were obtained from the probiotic group of Department of Pharmaceutical Microbiology,
Faculty of Pharmacy, University of Ibadan, Ibadan, Nigeria
.
Traditional fermentation of
Ogi
Maize grains (
Zea
mays
) were obtained from
the
Bodija
market, Ibadan Oyo State Nigeria. The
Ogi
was prepared by fermentation of maize grains according to the traditional methods of processing as described by
Afolayan
et al.
[
1
4
]
. In

summary, Maize grains were soaked in clean water for 48 h at 28 ± 2 °C.

The fermenting water was decanted and the soften maize grains were wet milled using clean grinding machine. The paste obtained was sieved with a clean muslin cloth to remove the husks. The filtrate was allowed to settle and ferment according to the days subsequently described for each experiment. The filtrate separated into thick paste (Ogi) and watery supernatant (Omidun). The pH was evaluated for a period of 7 days.

viability studies

On the first day of souring, 1g of Ogi slurry was obtained from the surface of Ogi (this involves lightly scrapping the surface of settled Ogi in order to obtain maximum bacterial counts) and 1 ml of Omidun were appropriately diluted with 0.9% sterile normal saline and the dilutions were inoculated on MRS agar respectively [1/4].

All incubations were carried under micro-aerophilic conditions at 37 °C for 24-48 hours. The number of colony-forming units on the MRS agar were counted and identified by morphological characteristics, Gram reaction, and catalase test. The procedure was repeated weekly on Ogi slurry and Omidun for 26 days.

Freeze-dried Ogi powder viability study

The effect of freeze-drying on LAB viability in Omidun and milk was done according to a modified method of Ayeni et al [1/6].

Grown 24 h cultures of *Lactobacillus paraplantarum* AI3 and *Lactobacillus pentosus* AO82 respectively were centrifuged at 3000 rpm for 10 mins, washed in normal saline and then resuspended in 0.5 mL Omidun and sterile milk respectively. The resuspended pellets of the LAB in Omidun was mixed with 10 g of wet Ogi slurry.

Also
the resuspended LAB in milk was mixed with 1 mL of milk for each sample.
The viability counts of the mixtures were carried out before freeze
-
drying. All the five different components (
Ogi
alone,
Ogi
+ L.
paraplantarum
,
Ogi
+ L.
pentosus
, milk +
L.
paraplantarum
, milk +
L
pentosus
) were collected and freeze
-
dried by freezing them to -20
o
C at atmospheric pressure then sublimed the frozen product at -20
o
C, which was then transferred to a condenser at low temperature and then defrost to yield a powdered product. The viability
counts
before and after freeze
-
drying and also after 69 days
of
storage at room temperature was
performed
for bacterial strains vehiculated in
Ogi
and milk.
For
Ogi
,
the
viability at 26 days
was measured
and
then
discontinued
due to
low survival rate of LAB
.
A s
tudy on the effects of capsulation on lactobacill
i
vehiculated in
Ogi
was adapted from the
viability count method of Ayeni
et al
[
1
6
]
. Freeze
-
dried
Ogi
and milk were put in capsule shells, filled and spread over to ensure uniform filling of the capsules. The cap was fixed appropriately
over the body and stored at room temperature. The viability counts of LAB in capsules versus the freeze
-
dried products that were not stored in capsules for the
Ogi
products were done after three weeks
of
storage and the results recorded. The
difference
in the viability
of LAB cryopreserved with
milk
vs
Ogi
was analy
z
ed with student t-test

.
 Evaluation of
 the
 viability of LAB in
 Ogi
 over a period of ten days
 The results obtained from the initially described viability study made us develop a new protocol to evaluate
 the
 maximum viability of
 Ogi
 components over
 10
 days. Freshly prepared
 Ogi
 with
 Omidun
 [
 1
 4
]
 were divided into three sterile containers. In
 the
 first container,
 Omidun
 was changed every day and viability study was done with mixture of
 Omidun
 (removed before changing the water)
 and lightly scrapped surface of
 Ogi
 . This mixture is tagged 'modified
 Omidun
 ,
 and 1
 m
 l
 of the mixture was serially diluted and plated out on MRS agar for viability counts after incubating micro
 aerophilically
 for 24-48 h. The procedure was repeated daily for
 10
 days. In the second container,
 Ogi
 was allowed to settle and
 Omidun
 changed daily. The surface of settled
 Ogi
 was lightly scrapped and 1 g obtained from the scrapped material was mixed in 9 m
 L
 of saline and diluted appropriately, then plated on MRS
 agar to get the viability counts daily for ten days.
 From
 the third container,
 Omidun
 was decanted after
 milling and settling
 ,
 then kept in
 the fridge for 10 days. Analyse
 s were
 done by daily removing 1 mL of the refrigerated
 Omidun
 and plating out as previously described for ten days
 .
 Determination of
 the
 antimicrobial effect of modified
 Omidun
 on diarrhoeagenic
 Escherichia coli
 The method of
 Ojo
 et al
 .
 [
 5
]
 was used to study the antimicrobial effects of
 Omidun
 on diarrheagenic
 E. coli
 pathotypes.
 We used f
 ive different diarrheagenic

E. coli
strains: EAEC
LLD25D, ETEC LWD21A, STEC LLH74B, EIEC LWD21E and EPEC LLH78D

The strains were grown for 24 h in Nutrient Broth and 0.1 mL of each

E. coli
strains were introduced into 99.9 mL of modified

Omidun
mixture as previously described. One milliliter from the mixture was diluted serially in 9 mL of normal saline and plated out on MacConkey agar to get the viable counts of the

E. coli
strains at time zero (0 h) by incubating for 24 h at 37°C. The remaining 99 mL mixture of modified

Omidun
and

E. coli
were incubated for 24 h at 37°C aerobically. One milliliter from the mixture was diluted serially in 9 mL of normal saline and plated out on MacConkey agar to get the viable counts of the

E. coli
strains at time 24 (24 h) by incubating for 24 h at 37°C. The control experiment involve

d
growing the different

E. coli
strains in normal saline and plating out the viable cells at time 0 h and 24 h. The plates were then observed for the growth of
E. coli
and viable colonies counted.

The r
esults were recorded at 0 h and 24 h

RESULTS

The pH of traditionally prepared

Ogi
was evaluated over 7 days
as Day

1: 3.96, Day 2: 3.45, Day 3: 3.77, Day 4: 3.62, Day 5: 3.50

-

Day
7: 3.98. The highest pH was 3.98 on day 7 and
the
lowest was 3.45 on day

2. The
result of quantities of viable LAB in different components of

Ogi

:

Ogi
slurry;
Omidun

,
modified
Omidun
and freeze-dried

Ogi
at different time interval

s
are shown

on
Fig
ures

1

to

3

. There

was

an

increase in quantity of viable LAB in

Ogi
slurry as the number of days increases,

rang

ing

from 8.6×10

8

cfu

/ml on day 1 of the souring period to one log increase (5.2×10

9

cfu

/ml) on day 3 and further one log

increase (

9.7×10

9

cfu

/ml) on day 10. However, after ten days, there was succession of fungi growth (Fig

1

). The LAB present

in
 Omidun
 showed viability for the four weeks duration, though with progressive reduction in quantities of viable LAB as the days from 1.25×10^7 cfu/ml on day 1 to 3.5×10^2 cfu/ml on day 27 (Fig

1
)

Figure
 SEQ Figure * ARABIC
 1

:
 Viab

i
 lity of
 LAB

in
 Ogi
 slurry and
 Omidun

In the 10 days viability study, LAB in
 Omidun
 remained viable over a period of 10 days. On the first day, modified
 Omidun
 had LAB counts of 6.2×10^7

CFU/ml,
 Ogi
 alone had 3.5×10^9

cfu
 /ml and refrigerated
 Omidun
 had 1.0×10^8

. Maximum counts were recorded on the fifth day as 2.4×10^9

cfu
 /ml for modified
 Omidun
 , 7.2×10^9

cfu
 /ml for raw
 Ogi
 and refrigerated
 Omidun

had 2.0×10^6

cfu
 /ml.
 Over
 the fifth day, there w
 as

a
 decline in the counts of LAB in all the three fractions of
 Ogi
 used (Fig

2
)
 Figure
 SEQ Figure * ARABIC
 2

:
 Viability of LAB in
 m
 odified
 Omidun

,
 r
 efrigerated
 Omidun

,
 and
 Ogi

for 10 days
 The effect of freeze
 -
 drying on the viability of
 L.
 pentosus
 and
 L.
 paraplantarum
 using
 Ogi
 and milk as cryo-protectants was reported
 on
 Fig.
 3
 . Milk is a better cryopreserving agent than
 Ogi
 . For LAB strains cryopreserved in
 Ogi
 , there was a 3 log reduction in the
 cfu
 /ml after freeze-drying in both tested strains while for LAB strains cryopreserved in milk, there was only a slight reduction in the
 viability of two LAB, from 2.6×10^{12}
 to 1.1×10^{12}
 for
 L.
 paraplantarum
 and from 2.32×10^{12}
 to 6×10^{11}
 .for
 L.
 pentosus
 . In freeze
 -
 dried
 Ogi
 ,
 the reduction in viable cells was four log
 s
 from 5.2×10^9
 to 7.2×10^5
 cfu
 /ml
 (cf.
 Fig
 3
). Also, the effect of two months
 of
 storage at room temperature
 ,
 on
 the
 viability of freeze
 -
 dried
 L.
 pentosus
 and
 L.
 paraplantarum
 cryopreserved in
 Ogi
 ,
 milk
 ,
 and
 Ogi
 alone
 ,
 was reported. The viable LAB in
 Ogi
 alone reduced from 7.2×10^5
 cfu/ml to 1.3×10^2
 cfu

/ml on day 26. There was two log reduction in the viability of
L. pentosus
 cryopreserved with
Ogi
 (not preserved in capsules) between day 1 and day 69 (from 2.77×10^8
 to 2.9×10^6
 cfu/ml) while there was a 3-log reduction in the viability of
L. paraplantarum
 cryopreserved with
Ogi
 (not preserved in capsules)
 (from 3.04×10^8
 to 1.32×10^5
 cfu/ml) (
 cf.
 Fig .
 3
).
 There was a
 statistically
 significant difference in the viability of LAB cryopreserved with milk versus
Ogi
 ($p=0.012$)
 .
 The effect of 3 weeks
 of
 capsulation on freeze
 -
 dried strains cryopreserved in
Ogi
 was reported. There was a drastic reduction in the viability of
Ogi
 capsulated products at the end of 3 weeks to $<10^4$
 cfu
 /ml in both strains, thereby leading to discontinuation of the experiment. However, the
 uncapsulated
Ogi
 freeze
 -
 dried
L. paraplantarum
 strain had a three
 -
 log reduction
 from 3.04×10^8
 cfu
 /ml to 1.62×10^5
 cfu
 /ml and a one log reduction for
L. pentosus
 (from 2.77×10^8
 to 7×10^7
 cfu
 /ml)
 (
 cf.
 Fig.
 4
). The milk capsulated products survived till
 the
 69
 th
 day
 ,
 but
 at reduced viability.

For milk+

L.

paraplanarum

, there was a

6

log

reduction (from 1.1×10^{12}

to 3.7×10^5) and for milk+

L.

pentosus

, there was a 5 log reduction (from 6×10^{11}

to 1×10^6) after 69 days

(cf.

Fig.

3

)

.

Figure

SEQ Figure * ARABIC

3

:

Effects of freeze

-

drying and storage on Lactobacilli

strains

Figure

SEQ Figure * ARABIC

4

:

Comparison of

the

viability of Lactobacilli strains in freeze

-

dried

Ogi

after three weeks of capsulation and

uncapsulation

The antimicrobial effect of modified

Omidun

against five strains of diarrhoeagenic

E. coli

was

reported. For the control experiments, the

E. coli

strains either maintain, lower or increased its viability after incubation in saline for 24 h e.g. the log viability of EAEC (3 log

s

), EHEC

(5 log

s

) and STEC (6 log

s

) were maintained at 0 and 24

h, EPEC

increased from 4 log

s

to 5 log

s

while ETEC

reduced from 6 to 5 log count. STEC was the most susceptible

E. coli

strain as no strain survived in

Omidun

after 24 hours

of

incubation. There was

a

7 log

reduction in ETEC strain, 4 log reduction in EAEC and 2 log reduction in EIEC.

Omidun

ha

d

little effect in reducing EPEC viability (

cf.

Fig

5

)

Figure
SEQ Figure * ARABIC
5

:
Antimicrobial Effects of Modified
Omidun
on Diarrhe

a
genic
E. coli
strains

DISCUSSION

This study
report
ed
that scrapping the surface of
Ogi

and mixing it
with
Omidun
had

a
higher quantity of viable beneficial LAB in comparison to normal
Omidun
and freeze

-
dried
Ogi
with
appropriate
anti diarrheagenic
E. coli
activities thereby implying functional food ability of
Ogi

.
We also report complete absence of LAB in

Ogi
after 10 days of milling, but rather a succession of fungi and yeast, thereby suggesting that the shelf life of
Ogi

is
within 10 days if they are to be used as
a
functional food.

Ogi
could be consumed strictly as food with no consideration for attendant health benefits. However, if
Ogi

is to be considered as functional food with special interest in the naturally occurring beneficial bacteria, then, the viability of the
bacteria is
significant
as probiotics

,
defined as live bacteria which when administered in adequate amount confer health benefits on the host. Therefore, viability of
bacteria in functional food
constitutes
a key consideration.

The
Ogi
slurry used in th
e current
study showed

a
progressive increase in
the
LAB population for a duration of 10 days after which there was
a

succession of fungi with no viable LAB. A repeated experiment confirmed that
the
viability of LAB in

Ogi
is only within 10 days. The
occurrence
of LAB in

Omidun
was reported by George and
Anosike

[
1

7

]

, where viable LAB was isolated from
Omidun

and the increase in population of LAB is supported by

Afolayan

et al

,

[

14

]

where the LAB growth in the

Ogi

slurry increased during 48 h of the souring period. However, to the best of

our knowledge, this is the first study reporting a 10 days period for detecting viable LAB in

Ogi

.

The counts of LAB in the modified

Omidun

and

Ogi

were more than that of refrigerated

Omidun

with peak viability on the fifth day. This can possibly be attributed to fermentation attaining its peak on the fifth day. Subsequently, there was a decline in the count of LAB since it was assumed that the LAB were the major agents of fermentation. The lower counts of LAB recorded for refrigerated

Omidun

may have been due to the fact that refrigeration prevented fermentation from occurring. This is in contrast with the results reported by Afolayan

et al.

,

[

14

]

who recorded higher counts of LAB in

Omidun

than in raw

Ogi

and this may be due to the fact that the

Omidun

in their study was stored at room temperature which was not the case in this study. There ha

ve

been report

ed

of peak LAB count and after which, there was a decline in the counts of the viable LAB

[

14

,

1

8

]. These findings are indicative of the fact that the normal preparation of

Ogi

or a mixture of raw

Ogi

and

Omidun

contain high quantities of LAB until the fifth day when stored at room temperature and the water is constantly changed.

The reduction in LAB counts in

Omidun

and

increase

s

in

Ogi

slurry can be attributed to

the

gravitational pull of the LAB from the

Omidun

to the

Ogi

surface. Therefore, a modified

Omidun

,

used in

our

study

,

involve

s

the

scrapped surface of

Ogi

mixed with

Omidun

and

it

displays
a
high count of viable LAB. The modified
Omidun
viable count
was
higher than traditional
Omidun
because it combines viable counts in
Omidun
with the densely populated surface of
Ogi
where gravitational force has pulled down the bacteria.
Aiming
to provide health benefits, it
will be
essential that there is a minimum
of
10
6
cfu
g
-1
viable
probiotic organism
s
in a product
[
14
] or 10
7
cfu
g
-1
at point of delivery
[
HYPERLINK \l "_REFERENCES"
19
]
. Therefore, observed high viability of LAB in different components of
Ogi
is interesting.
In formulating freeze
-
dried products, the cryoprotectant has to be considered and it is essential that viability is maintained throughout the process of
formulation and subsequently throughout its use. During freeze
-
drying, the cells are exposed to
an
extreme temperature
that
has the ability to damage the cells of the bacteria
[
2
0
]
. Cryoprotectants can then be used in optimizing this process, protect the cells and in the process enhance the viability of the
organisms during freeze
-
drying
[
2
0
]
. As observed in this study,
Ogi
is not a
suitable
cryoprotectant during freeze
-
drying and capsule storage in comparison to using skimmed milk. The LAB
,
in formulation with milk
,
possesses
a higher survival rate than LAB in
Ogi
formulation. Ayeni
et al.
[
HYPERLINK \l "_REFERENCES"
16

]
 reported that milk is
 highly
 effective in protecting the organisms during freeze
 -
 drying
 and enhancing the survival of the organisms during storage. This
 agrees
 with the study carried out by
 Jalali
 et
 al.
 [
 2
 0
]
 who reported 20% increase in viability of the
 organisms using 6% skimmed milk and the highest survival after 3 months in capsules
 that
 formulation
 is
 with sodium
 ascorbate and
 trehalose
 .
 F
 reeze
 -
 dried techniques ha
 ve
 the
 advanta
 ge of being a process in which
 bacteria can survive well with the addition of cryoprotectants
 [
 16
 ,
 2
 0,
 2
 1
]. Temperature fluctuation is one of the factor
 s
 that contribute to the survival and activity of LAB in a food sample
 [
 2
 2
]
 . The freeze-dried process has
 the
 advantage of preserving the LAB for a long time and also reduces the rate of destruction by the gastric acid due to the ease of micro-
 encapsulating a freeze
 -
 dried product.
 Escherichia coli,
 which has been implicated as one of the major cause
 s
 of diarrhea in human
 s
 ,
 and the major cause of mortality and morbidity in children less than 5 years
 ,
 has shown multi-resistance to antibiotics. The resistance of diarrhoeagenic
 E. coli
 to antibiotic
 s
 has been ascribed to the misuse or under-use of antibiotics most especially ampicillin, chloramphenicol and
 sulphamethoxazole-trimetroprim
 [
 2
 3
 ,
 2
 4
]. Fermented foods can have
 an
 inhibitory effect on the diarrhoeagenic
 E. coli
 which could be due to different mechanism
 s
 of action of the LAB present in the fermented food [
 5

,
2
5
]. These inhibit the growth of the pathogenic organism and the inhibitory effect is supported by a decrease in pH hence increase in acidity of the environment. From the co-culture experiment, there was reduction in the viable count of the selected diarrhoeagenic *E. coli* strain after 24 h of contact time. Interestingly, after 24 h,
STEC
LLH74B was
entirely
inhibited and drastic inhibition was observed with the other diarrhoeagenic
E. coli
strains.
Afolayan
and
and
Ayeni [
2
6
] also observed a decrease in the count of
E. coli
strain
EKT
004 after a co-culture with
LAB
isolated from
Ogi
with more inhibitory activity of
LAB
against
E. coli
strain
EKT
004 when compared with the activity of conventional antibiotics. These reports demonstrate antimicrobial activity of LAB in fermented food,
especially
Omidun
which in turn suggests that this group of bacteria
is
able to confer health benefits on individuals consuming
them
. It may
, therefore,
be important to encourage the use of a mixture of
Omidun
and raw
Ogi
or raw
Ogi
for better results.
The observed activities could be due to inhibitory compounds produced by lactobacilli e.g. organic acids, diacetyl, hydrogen peroxide, nisin, lactic acid and bacteriocins [
2
5
,
HYPERLINK \l "_REFERENCES"
27
,
HYPERLINK \l "_REFERENCES"
28
]. George and
Anosike
[
1
7
] also isolated three LAB from
Omidun
and showed their antimicrobial effect on some test microorganisms and Ayeni and Ayeni, [
HYPERLINK \l "_REFERENCES"
29
] reported that inoculated enteric
pathogen was
inhibited by LAB after 24
-
48 h contact time.
Furthermore, t
he decrease in the pH contributes to the inhibitory effect of the
Omidun
on
E. coli
. T

here was a drastic change in the pH value with a decrease from 4.06 to 2.90, hence an increase in acidity. This drastic change in pH has been reported [14]. The effectiveness of *Lactobacillus* species against enteropathogenic bacteria has been reported [30]. Interestingly, Omidun doesn't only have antimicrobial properties, but it offers protection against colitis in a rat model [32].

(32)

. This further clarifies the medicinal properties of Omidun as reported in our study.

CONCLUSION

The current study provides the scientific proof of the use of Omidun in the local treatment of diarrhoea due to its anti-diarrhoeagenic activities. Furthermore, we demonstrated that Ogi and Omidun are best consumed within 10 days of souring for maximal lactic acid bacterial viability and antimicrobial effects. We present a modified Omidun that involves lightly scrapping the surface of Ogi and mixing it with Omidun to get a higher quantity of viable beneficial LAB.

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E. coli strains used in this study.

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In Capsule
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Ogi + L. paraplantarum
Ogi + L. pentosus
Sheet1!\$B\$21:\$B\$22
General
3.9
3.9
Sheet1!\$C\$20
Not in Capsule
Sheet1!\$A\$21:\$A\$22
Ogi + L. paraplantarum
Ogi + L. pentosus
Sheet1!\$C\$21:\$C\$22
General
5.21
7.85
Log CFU/mL

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Meghit Boumediene Khaled

Meghit Boumediene Khaled

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