Supplementary Material.
Phytochemical profile, antioxidant properties, and anticancer activity of *Mauritia flexuosa* L. from the Ecuadorian Amazon.

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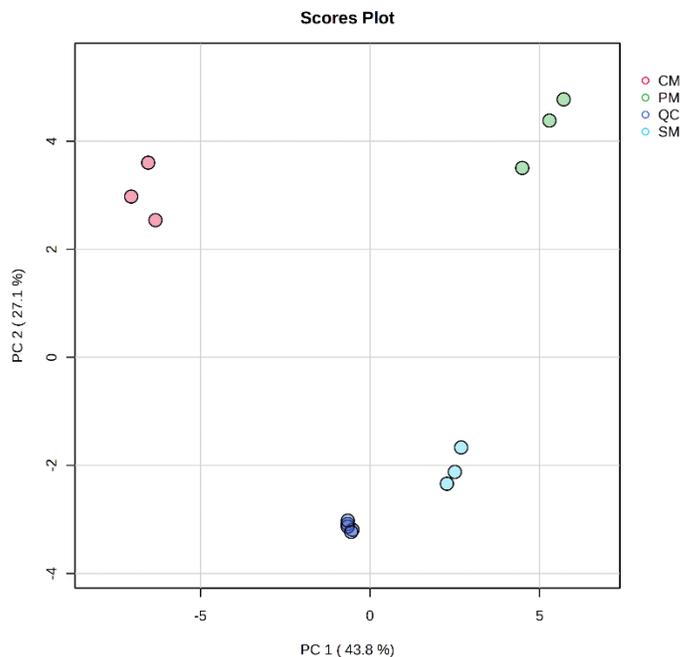[5]*Departamento de Ciencias de la Salud, Universidad Técnica Particular de Loja, San Cayetano alto, 1101 608 Loja, Ecuador*
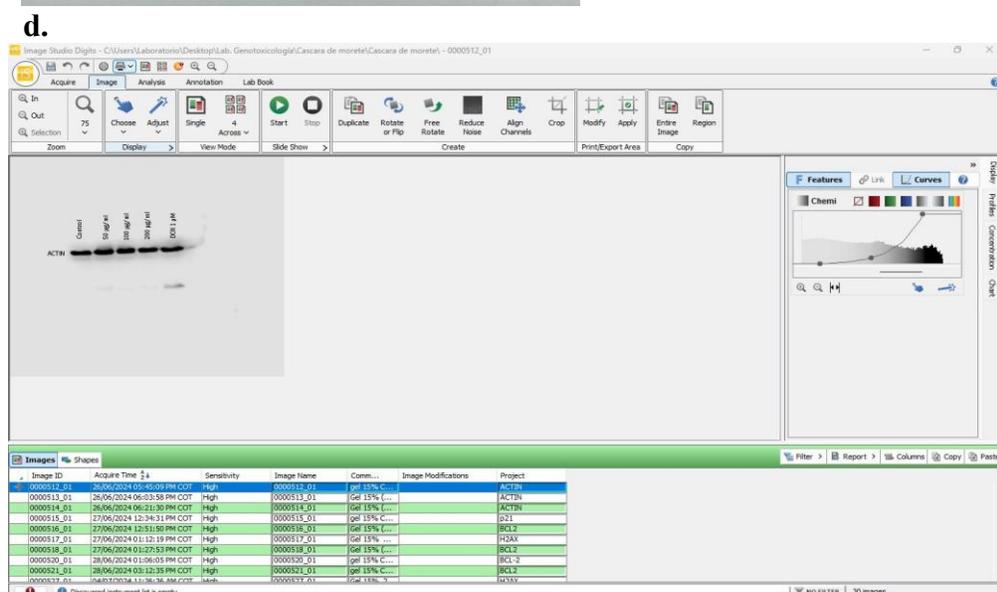[6]*Departamento de Ingeniería Química, Universidad San Francisco de Quito, Diego de Robles y Vía Interoceánica, Quito, Ecuador, 170901.*
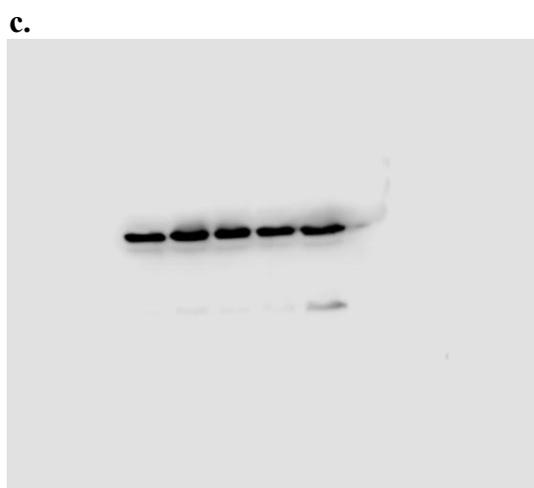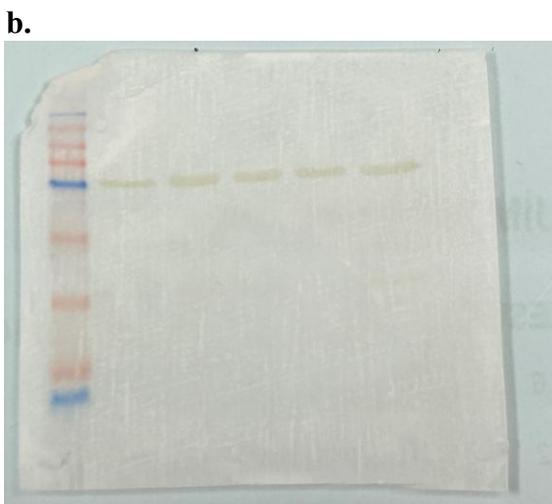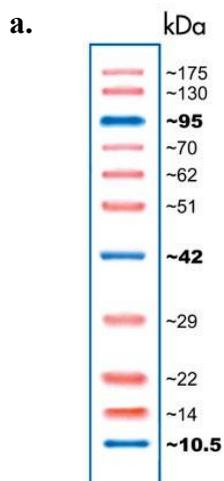[7]*Department of Chemistry, Manchester Institute of Biotechnology, The University of Manchester, 131 Princess Street, Manchester, UK, M1 7DN.*
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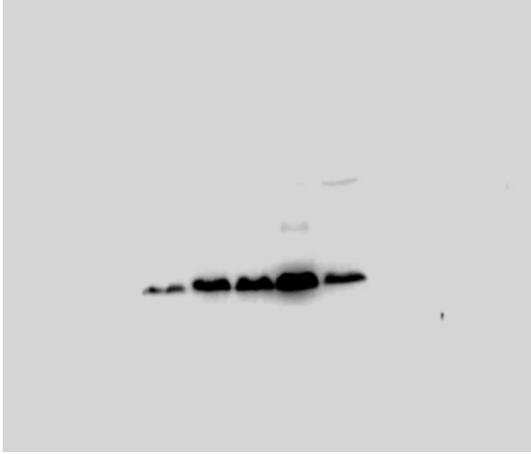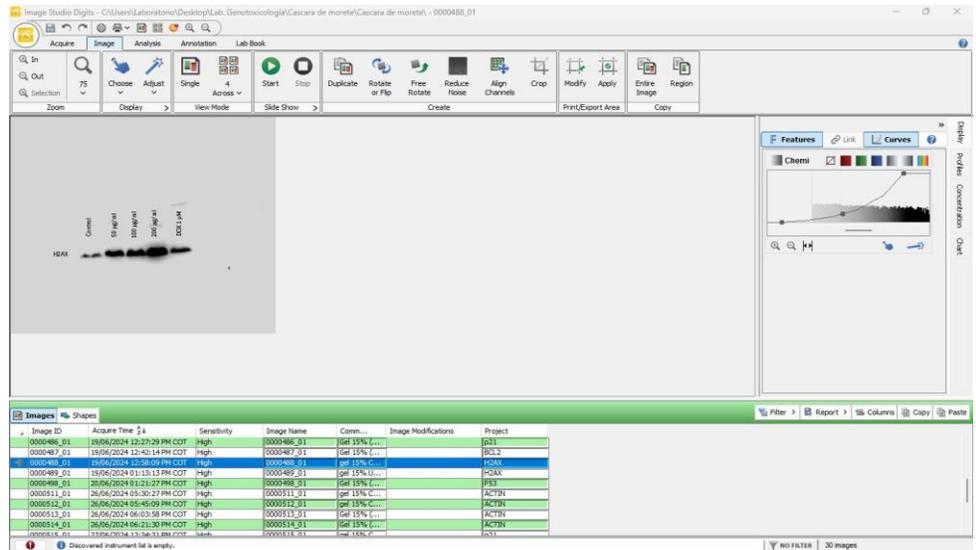
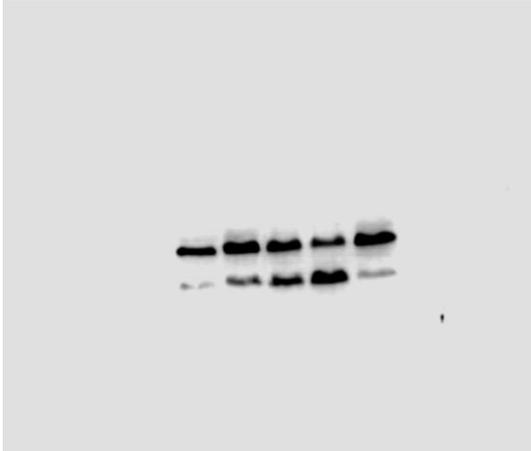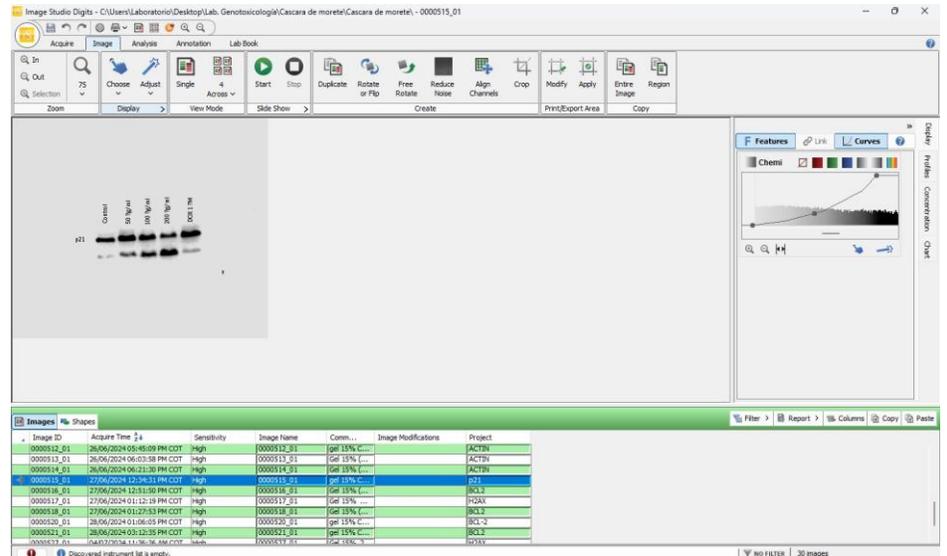* *Correspondence: pespinoza646@puce.edu.ec*

Supplementary Fig. 1 | Score plot including QC samples

Supplementary Fig. 2 | Actin. a. Molecular Weight Reference: Schematic representation of the prestained protein ladder used during the electrophoretic run. The intense blue reference band corresponds exactly to 42 kDa, serving as the primary anchor for identifying the target protein. **b.** Physical Membrane Visualization: White-light photograph of the PVDF membrane taken immediately after protein transfer. The physical migration of the ladder in the first lane confirms the consistency of the run and demonstrates the position of the 42 kDa reference band relative to the sample lanes. **c.** Raw Digital Blot: Original chemiluminescent signal for ACTIN captured by the C-DiGit® Blot Scanner using Immobilon® Crescendo Substrate. The signal is positioned at the ~42 kDa level, aligning with the physical reference in Panel B. **d.** Software Acquisition Metadata: Direct screenshot from the Image Studio™ Software v4.0.21. This panel displays the original Image ID (e.g., 0000512_01), the acquisition timestamp, and the processing status. The absence of recorded "Image Modifications" confirms that the provided data is raw and uncropped.
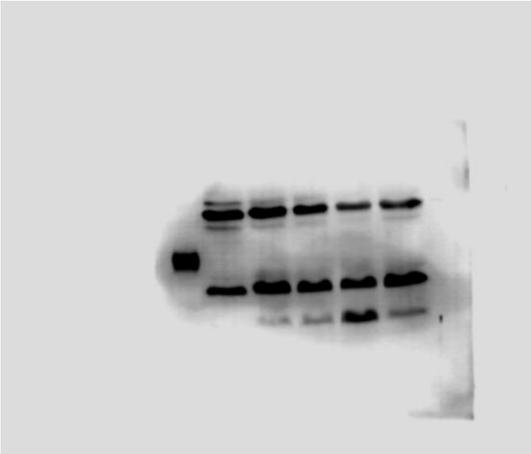
a.

b.

Supplementary Fig. 3 | H2AX. a. Raw Digital Blot: Original chemiluminescent signal captured by the C-DiGit® Blot Scanner. The image displays the full acquisition area permitted by the CCD sensor, with no post-acquisition cropping. Protein identity is confirmed by migration relative to the ACTIN reference and the specific HRP-linked antibody reaction. **b.** Software Acquisition Metadata.

a.

b.

Supplementary Fig. 4 | p21. a. Raw Digital Blot: Original chemiluminescent signal captured by the C-DiGit® Blot Scanner. The image displays the full acquisition area permitted by the CCD sensor, with no post-acquisition cropping. Protein identity is confirmed by migration relative to the ACTIN reference and the specific HRP-linked antibody reaction. **b.** Software Acquisition Metadata.
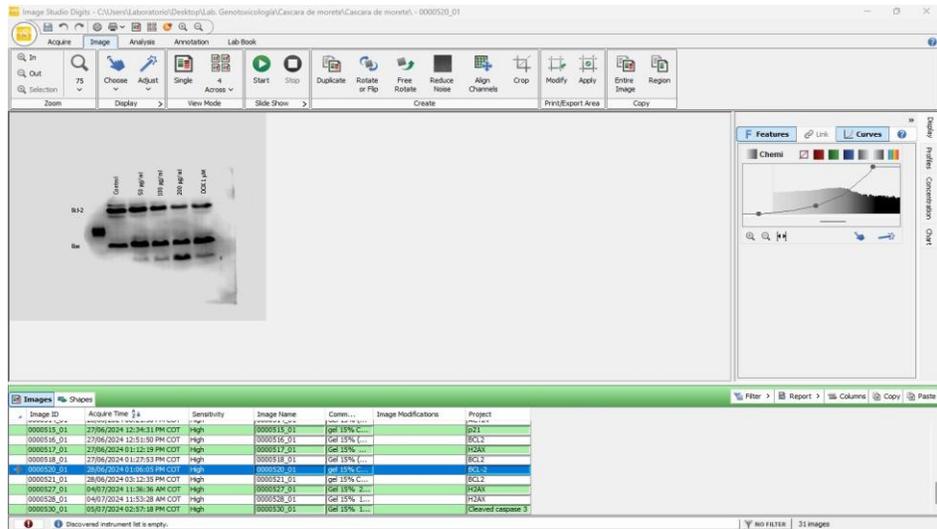
a.

b.

Supplementary Fig. 5 | Bcl-2/BAX. **a.** Raw Digital Blot: Original chemiluminescent signal captured by the C-DiGit®
Blot Scanner. The image displays the full acquisition area permitted by the CCD sensor, with no post-acquisition
cropping. Protein identity is confirmed by migration relative to the ACTIN reference and the specific HRP-linked
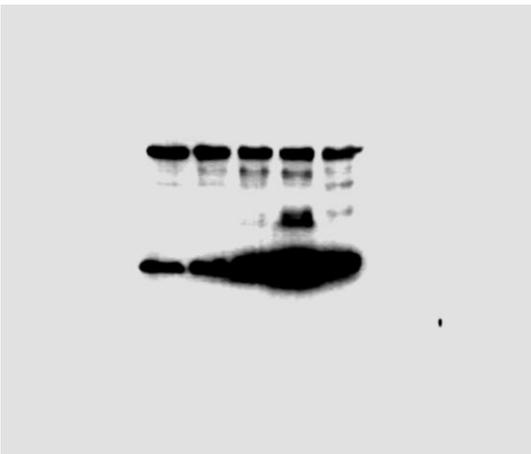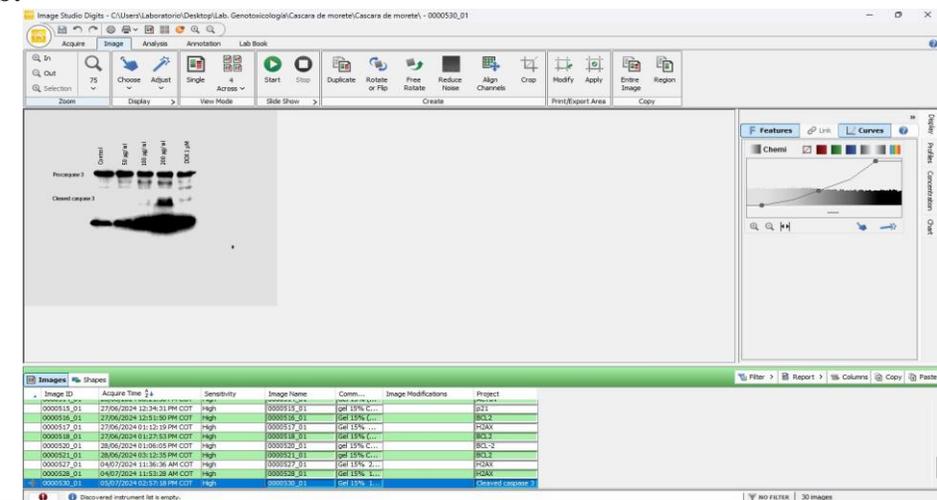antibody reaction. **b.** Software Acquisition Metadata.

a.

b.

Supplementary Fig. 6 | Pro-Caspase 3/ Cleaved Caspase 3. **a.** Raw Digital Blot: Original chemiluminescent signal captured
by the C-DiGit® Blot Scanner. The image displays the full acquisition area permitted by the CCD sensor, with no post-
acquisition cropping. Protein identity is confirmed by migration relative to the ACTIN reference and the specific HRP-linked
antibody reaction. **b.** Software Acquisition Metadata.