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Author: Luis Francisco Rossi Juan Pablo Luaces Melanie Browne Mónica Gabriela Chirino María Susana Merani Marta Dolores Mudry



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***Chaetophractus villosus* as a sentinel organism: baseline values of mitotic index, chromosome aberrations and sister chromatid exchanges**

Luis Francisco Rossi^{a,b*}, Juan Pablo Luaces^{a, b*}, Melanie Browne^a, Mónica Gabriela Chirino^{a,b},
María Susana Merani^{a, b**}, Marta Dolores Mudry^{b, c}

*These authors contributed equally to this work.

^aLaboratorio de Biología Cromosómica, Facultad de Medicina, Universidad de Buenos Aires.
Paraguay 2155. C1121ABG. Piso 10 Lab. 6. Ciudad Autónoma de Buenos Aires, Argentina.

^bConsejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Buenos Aires, Argentina.

^cGrupo de Investigación en Biología Evolutiva (GIBE). Depto EGE. IEGEBA. Labs. 43 y 46- Piso 4- FCEyN- Pabellón II- Cdad. Universitaria. Intendente Güiraldes 2160 (C1428EGA) Ciudad Autónoma de Buenos Aires, Argentina.

**Corresponding author: María S. Merani PhD
Laboratorio de Biología Cromosómica,
Facultad de Medicina, Universidad de Buenos Aires. Paraguay
2155. C1121ABG. Piso 10 Lab. 6. Ciudad Autónoma de Buenos
Aires, Argentina.
E-mail: mmerani@fmed.uba.ar

Highlights:

- The geographic distribution of *C. villosus* overlaps with areas exposed to xenobiotics.
- Baseline values of genotoxic biomarkers were established for *C. villosus*.
- MI, CA, SCE, and RI were used as genotoxic biomarkers in *C. villosus*.
- We propose *C. villosus* as a sentinel organism due to its life-history traits.

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