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Middle-Upper Devonian palynofloras from Argentina, systematic and correlation

Sol Noetinger, Mercedes di Pasquo, Daniel Starck



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Sol Noetinger<sup>a,\*</sup> noetinger@macn.gov.ar; Mercedes di Pasquo<sup>b</sup> medipa@cicyttp.org.ar and Daniel Starck<sup>c</sup> Daniel.Starck@tecpetrol.com

<sup>a</sup>Museo Argentino de Ciencias Naturales - CONICET, Angel Gallardo 470, Ciudad A. de Buenos Aires, C1405DJR, Argentina

<sup>b</sup>Laboratorio de Palinoestratigrafía y Paleobotánica, CICyTTP-CONICET, Dr. Materi & España s/n, Diamante, E3105BWA, Entre Ríos, Argentina

<sup>c</sup>Tecpetrol S.A., Della Paolera 299-Piso 21°, C1001ADA, Ciudad A. de Buenos Aires, Argentina

\*Corresponding author at: Museo Argentino de Ciencias Naturales - CONICET, Angel Gallardo 470, Ciudad A. de Buenos Aires, C1405DJR, Argentina.

## Abstract

This investigation documents the first palynoassemblage spanning the Middle-Upper Devonian from four outcropping sections located in northwestern Argentina. The recovered material includes fairly well preserved palynomorphs, both from marine and continental origin, including acritarchs, prasinophytes, cryptospores, spores and chlorophytes. In two of the four studied localities chitinozoans were encountered, whilst only one of them have yielded scolecodonts. Five new species are described including one acritarch specimen: *Gorgonisphaeridium impexus* sp. nov., two prasinophytes: *Cymatiosphaera robusta* sp. nov. and *Pterospermella simplex* sp. nov., one chitinozoan: *Angochitina plicata* sp. nov. and one miospore species: *Apiculatasporites ruptus* sp. nov. Hierarchical cluster analysis recognize two well differentiated palynofloras in Argentina for the Early and Middle-Late Devonian. A poor correlation with known Devonian biostratigraphical schemes from Gondwanan and peri Gondwanan regions, support the theory of an endemic flora in northwestern and eastern Gondwana even during the Middle and Late Devonian. The palynoassemblage studied here provides an important source of reference to improve former strata

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