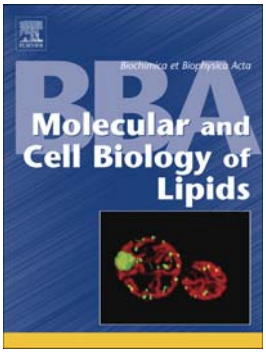

Active site mapping of *Loxosceles* phospholipases D: Biochemical and biological features

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Active site mapping of *Loxosceles* phospholipases D: biochemical and biological features.

Vuitika[a], L.; Chaves-Moreira[a], D.; Caruso[b], I.; Lima[c], M. A.; Matsubara[a], F. H.; Murakami[d], M. T.; Takahashi[c], H. K.; Toledo[c], M. S.; Coronado[b], M. A.; Nader[c], H. B.; Senff-Ribeiro[a], A; Chaim, O. M[a]; Arni[b], R. K.; Veiga[a*], S. S.

[a]Department of Cell Biology, Federal University of Paraná (UFPR), Curitiba, PR, Brazil.
[b]Multiuser Center for Biomolecular Innovation, Department of Physics, São Paulo State University (UNESP), São José do Rio Preto, SP, Brazil.
[c]Department of Biochemistry, Federal University of São Paulo (UNIFESP), São Paulo, SP, Brazil.
[d]Brazilian Biosciences National Laboratory (LNBio), National Center for Research in Energy and Materials (CNPEM), Campinas, SP, Brazil.

[*]**Corresponding author**:
Silvio S. Veiga
Department of Cell Biology, Federal University of Paraná, Jardim das Américas, 81531-990, Curitiba, Paraná, Brazil.
Fax: +55 41 3266 2042
E-mail: veigass@ufpr.br

Highlights

- Identification of key residues involved in the catalytic activity of PLD from *Loxosceles sp.*
- Role of Tyrosine 228 in enzymatic activity and substrate binding.
- Correlation between biological and catalytic activity.

Abstract

Brown spider phospholipases D from *Loxosceles* venoms are among the most widely studied toxins since they induce dermonecrosis, triggering inflammatory responses, increase vascular permeability, cause hemolysis, and