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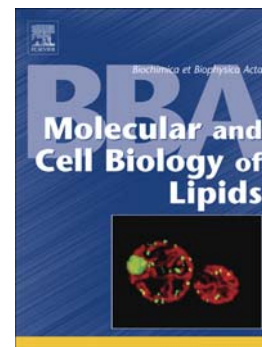
Active site mapping of *Loxosceles* phospholipases D: Biochemical and biological features

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

PII: S1388-1981(16)30132-9  
DOI: doi: [10.1016/j.bbalip.2016.05.009](https://doi.org/10.1016/j.bbalip.2016.05.009)  
Reference: BBAMCB 57978

To appear in: *BBA - Molecular and Cell Biology of Lipids*

Received date: 8 December 2015  
Revised date: 20 May 2016  
Accepted date: 23 May 2016



Please cite this article as: L. Vuitika, D. Chaves-Moreira, I. Caruso, M.A. Lima, F.H. Matsubara, M.T. Murakami, H.K. Takahashi, M.S. Toledo, M.A. Coronado, H.B. Nader, A. Senff-Ribeiro, O.M. Chaim, R.K. Arni, S.S. Veiga, Active site mapping of *Loxosceles* phospholipases D: Biochemical and biological features, *BBA - Molecular and Cell Biology of Lipids* (2016), doi: [10.1016/j.bbalip.2016.05.009](https://doi.org/10.1016/j.bbalip.2016.05.009)

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

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

<sup>a</sup>Department of Cell Biology, Federal University of Paraná (UFPR), Curitiba, PR, Brazil.

<sup>b</sup>Multiuser Center for Biomolecular Innovation, Department of Physics, São Paulo State University (UNESP), São José do Rio Preto, SP, Brazil.

<sup>c</sup>Department of Biochemistry, Federal University of São Paulo (UNIFESP), São Paulo, SP, Brazil.

<sup>d</sup>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](mailto: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

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