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Awards: “Estímulo à Excelência” - 2005 - FCT (Portugal); “Prémio União Latina” – 2006 (Portugal); “Prémio Científico UTL / Santander Totta”- Biophysics - 2007 (Honorable Mention)

International organizations: Member of the Council of IUPAB; Member of the Council of EBSA and member of the Executive Committee; “International Mentor” of the Biophysical Society, USA; Member of the Executive Board and Cluster co-coordinator of the European Marie-Curie Action EST “BioMem”; National Delegate (COST Action D:22, Lipid-protein Interaction).

Project evaluator: National Science Foundation, Arlington, VA, USA; COST (European Co-operation in the field of Scientific and Technical Research Action) D:22 (STSM); Marie Curie Actions Fellowships (EIF, OIF, IIF) (Panel Life Sciences), RTN(Research Training Networks) and EST; INTAS (International Association for the promotion of co-operation with scientists from the New Independent States of the former Soviet Union); “Engineering and Physical Sciences Research Council”, U. K.; FONCyT (Argentina); “Georgian National Science Foundation”, (Republic of Georgia, Tbilisi) ; “Council of Scientific & Industrial Research” (New Delhi-India); TWAS “The Third World Academy of Sciences”

Memberships of Scientific Societies: Member of the Board, Past-President and Founder: Sociedade Portuguesa de Biofísica/Portuguese Biophysical Society; Member: Sociedade Portuguesa de Química (Portugal), Sociedad Española de Biofísica (Spain), Biophysical Society (U. S. A.), European Photochemistry Association, Sociedade Portuguesa de Bioquímica (Portugal)

Referee of scientific journals: J. Amer. Chem. Soc.; Biophys. J.; Biochemistry; Free Rad. Bio. Med.; Chem. Comm.; J. Phys. Chem.; Langmuir; Biochem. Pharmacol.; Eur. J. Biochem.; Org. Biomol. Chem.; Chem. Phys. Lipids; Biochim. Biophys. Acta; Phys. Chem. Phys.; Eur. Biophys. J.; Soft Matter; Biophys. Chem.; Biopolymers; J. Colloid Interf. Sci.; J. Microscopy; J. Membr. Biol.; Photochem. Photobiol. Sci.; J. Fluorescence; J. Biol. Phys.; Egypt. J. Biophys. Biom. Eng.; International Journal of Biophysics; Biologia (Bratislava); Boletim Sociedade Portuguesa de Química; Rev. Port. Quím.; Biochimie; J. Photochem. Photobiol. B; Mol. Microb.; J. Pept. Sci.; Proteins: Struct., Function, and Bioinf.; FEBS Lett.; J. Microsc.

Invited seminars: Argentina, Belgium, Czech Republic, Denmark, Finland, France, Hungary, India, Mexico, Netherlands, Peru, Uruguay, Spain, U.S.A.

Publications (2003 –March 2008):

Journals

1. Loura L, Almeida R, Prieto M. (2008) Lipid domains and rafts; time-resolved fluorescence spectroscopy, fluorescence imaging microscopy. *Chem. Phys. Lipids* (invited review) (in press).

2. Loura L, Almeida R, Silva L, Prieto M. (2008) FRET analysis of domain formation and properties in complex membrane systems. *Biochim. Biophys. Acta* (invited review) (in press).
3. Loura L, Prieto M. (2008) Characterization of peptide-induced morphological alterations in membranes by resonance energy transfer. *Protein & Peptide Letters*, (invited review) (in press)
4. Holt A, de Almeida RFM, Nyholm TKM, Loura LMS, Daily AE, Staffhorst RWHM, Rijkers DTS, Koeppe II RE, Prieto M, Killian JA. (2008) Is there a preferential interaction between cholesterol and tryptophan residues in membrane proteins? *Biochemistry*, 47: 2638-2649.
5. Bastos M, Bai G, Gomes P, Goormaghtigh E, Prieto M. (2008) Energetics and partition of two cecropin-melittin hybrid peptides to model membranes of different composition. *Biophys. J.* 94: 2128-2141.
6. Madeira CLoura, LMS, Prieto M, Fedorov A, Aires-Barros MR. (2008) Effect of ionic strength and presence of serum on lipoplexes structure monitored by FRET. *BMC Biotechnol.* (in press).
7. Hesselink RW, Fedorov A, Hemminga M, Prieto M. (2008) Interactions between membrane-bound peptides mimicking transmembrane helix 7 of subunit a (Vph1p) of yeast V-ATPase, and a potent indole-type inhibitor: A fluorescence study. *J. Pept. Sci.* 14: 383–388.
8. Guillén J, de Almeida RFM, Prieto M, Villalaín J. (2008) Structural and dynamic characterization of the interaction of the putative fusion peptide of the S2 SARS-CoV virus protein with lipid membranes. *J. Phys. Chem. B.* (in press).
9. Fernandes F, Loura L, Matos AP, Fedorov A, Prieto M. (2008) Role of helix-0 of the N-BAR domain in membrane curvature generation. *Biophys. J.* (in press).
10. Castro BM, de Almeida RFM, Silva LC, Fedorov A, Prieto M. (2007) Formation of ceramide/sphingomyelin gel domains in the presence of an unsaturated phospholipid. A quantitative multiprobe approach. *Biophys. J.* 93: 1639-1650.
11. Mano M, Henriques A, Paiva A, Prieto M, Gavilanes F, Simões S, Pedroso de Lima MC. (2007) Interaction of S4₁₃-PV cell penetrating peptide with model membranes: Relevance to peptide translocation across biological membranes. *J. Pept. Sci.* 13: 301-313.
12. Fernandes F, Neves P, Gameiro P, Loura LMS, Prieto M. (2007) Ciprofloxacin interactions with bacterial protein Ompf: Modelling of FRET from a multi-tryptophan protein trimer. *Biochim. Biophys. Acta* 1768: 2822-2830.
13. Poveda JA, Fernández-Ballester G, Prieto M, Neira JL. (2007) Dynamics of tryptophan in the molten-globule-like species of HPr: Evidence of multi-state equilibrium unfolding. *Biochemistry* 46: 7252-7260.
14. Madeira C, Loura LMS, Prieto M, Fedorov A, Aires-Barros MR. (2007) Liposome complexation efficiency monitored by FRET: Effect of charge ratio, helper lipid and plasmid size. *Eur. Biophys. J.* 36: 609-620.
15. Silva LC, de Almeida RFM, Castro B, Fedorov A, Prieto M. (2007). Ceramide-domain formation and collapse in lipid raft membranes. Membrane reorganization by an apoptotic lipid. *Biophys. J.* 92: 502-516.
16. de Almeida RFM, Borst JW, Fedorov A, Prieto M, Wisser AJG. (2007) Complexity of lipid domains and rafts in giant unilamellar vesicles revealed by combining imaging, microscopic and macroscopic time-resolved fluorescence. *Biophys. J.* 93: 539-553.

17. Fernandes F, Loura LM, Fedorov A, Prieto M. (2006) Absence of clustering of phosphatidylinositol-(4,5)-bisphosphate in fluid phosphatidylcholine. *J. Lipid Res.* 47: 1521-1525.
18. Silva ., de Almeida R, Fedorov A, Prieto M. (2006) Ceramide-platform formation and induced biophysical changes in a fluid phospholipid membrane. *Mol. Membr. Biol.* 23: 137-148.
19. Silva L, Coutinho A, Fedorov A, Prieto M. (2006). Nystatin-induced lipid vesicles permeabilization is strongly dependent on sterol structure. *Biochim. Biophys. Acta*, 1758: 452-459.
20. Silva L, Coutinho A, Fedorov A, Prieto M. (2006) Competitive binding of cholesterol and ergosterol to the polyene antibiotic nystatin. A fluorescence study. *Biophys. J.* 90: 3625-3631.
21. Fernandes F, Loura L, Koehorst RBM, Dixon N, Kee TP, Hemminga MA, Prieto M. (2006) Interaction of the indole class of V-ATPase inhibitors with lipid bilayers. *Biochemistry* 45: 5271-5279.
22. de Almeida RFM, Loura LMS, Prieto M, Watts A, Fedorov A, Barrantes FJ. (2006) Structure and dynamics of the gamma M4 transmembrane domain of the acetylcholine receptor in lipid bilayers: insights into receptor assembly and function. *Mol. Membr. Biol.* 23: 305-315.
23. Fernandes F, Loura L, Koehorst RBM, Dixon N, Kee TP, Hemminga MA, Prieto M. (2006) Binding assays of inhibitors towards selected V-ATPase domains. *Biochim. Biophys. Acta.* 1785: 1777-1786.
24. Loura LMS, Coutinho A, Silva A, Fedorov A, Prieto M. (2006) Structural effects of a basic peptide on the organization of DPPC/DPPS membranes: a FRET study. *J. Phys. Chem. B* 110: 8130-8141.
25. Mano M, Henriques A, Paiva A, Prieto M, Gavilanes F, Simões S, Pedroso de Lima MC. (2006) Cellular uptake of S4₁₃-PV peptide occurs upon conformational changes induced by peptide membrane interactions. *Biochim. Biophys. Acta* 1758: 336-346.
26. Pascual R, Contreras M, Fedorov A, Prieto M, Villalaín J. (2005) Interaction of a peptide derived from the N-heptad repeat region of gp41 env ectodomain with model membranes. Modulation of phospholipid phase behavior. *Biochemistry* 44: 14275-14288.
27. Madeira C, Fedorov A, Aires-Barros MR, Prieto M, Loura LMS. (2005) Photophysical behavior of a dimeric cyanine dye (BOBO-1) within cationic liposomes. *Photochem. Photobiol.* 81: 1450-1459.
28. de Almeida RFM, Loura LMS, Fedorov A, Prieto M. (2005) Lipid rafts have different sizes depending on membrane composition: a time-resolved fluorescence resonance energy transfer study. *J. Mol. Biol.* 346: 1109-1120.
29. Coutinho A, Silva L, Fedorov A, Prieto M. (2004) Effect of cholesterol and ergosterol on the surface aggregation of the polyene antibiotic nystatin in lipid bilayers: Relation to pore formation. *Biophys. J.* 87: 3264-3276.
30. Fernandes FM , Luís M, Loura S, Koehorst R, Spruijt RB, Hemminga MA, Fedorov A, Prieto M. (2004) Quantification of protein-lipid selectivity using FRET. Application to the M13 major coat protein. *Biophys. J.* 87: 344-352.
31. de Almeida RFM, Loura LMS, Prieto M, Watts A, Fedorov A, Barrantes F. (2004) Cholesterol modulates the organization of the gamma M4 transmembrane domain of the muscle nicotinic acetylcholine receptor. *Biophys. J.* 86: 2261-2272.

32. de Almeida RFM, Fedorov A, Prieto M. (2003) Sphingomyelin/Phosphatidylcholine/Cholesterol phase diagram: Boundaries and composition of raft structures. *Biophys. J.* 85: 2406-2416.
 33. Silva L, Coutinho A, Fedorov A, Prieto M. (2003) Solution conformation of a nitrobenzoxadiazole derivative of the polyene antibiotic nystatin: A FRET study. *J. Photoch. em. Photobiol. B* 72: 17-26.
 34. Loura LMS, de Almeida RFM, Prieto M. 2003. Methodologies and formalisms of resonance energy transfer in biophysics. Application to membrane model systems. *Int. J. Photoenerg.* 5: 223-231.
 35. Fernandes F, Loura L, Prieto M, Koehorst R, Spruijt R, Hemminga M. (2003) Dependence of M13 major coat protein oligomerization and lateral segregation on bilayer composition. *Biophys. J.* 85: 2430-2441.
 36. Madeira C, Loura LMS, Aires-Barros MR, Fedorov A, Prieto M. (2003) Characterization of DNA/lipid complexes by fluorescence resonance energy transfer. *Biophys. J.* 85: 3106-3119.
 37. Silva L, Coutinho A, Fedorov A, Prieto M. (2003) Conformation and self-assembly of a nystatin nitrobenzoxadiazole derivative in lipid membranes. *Biochim. Biophys. Acta.* 1617: 69-79.
 38. Poveda JA, Prieto M, Encinar JA, González-Ros JM, Mateo CR. 2003. Intrinsic tyrosine fluorescence as a tool to study the interaction of the *shaker* B “ball” peptide with anionic membranes. *Biochemistry* 42: 7124-7132.
 39. Santos NC, Prieto M, Castanho M. (2003) Quantifying molecular partition into model systems of biomembranes: An emphasis on optical spectroscopic methods. (invited review), *Biochim. Biophys. Acta* 1612: 123-135
 40. Coutinho A, Prieto M. (2003) Cooperative partition model of nystatin interaction with phospholipids vesicles. *Biophys. J.* 84: 3061-3078.
 41. Loura L, Almeida R, Coutinho A, Prieto M. (2003) Interaction of peptides with binary phospholipid membranes: Application of fluorescence methodologies. *Chem. Phys. Lipid.* 122: 77-96.
 42. Rodrigues C, Gameiro P, Prieto M, de Castro B. (2003) Interaction of rifampicin and isoniazid with large unilamellar liposomes: Spectroscopic location studies. *Biochim. Biophys. Acta* 1620: 151-159.
- Chapters in Books:**
43. Loura L, Prieto M. (2008) Time-resolved fluorescence methodologies in the study of lipid-peptide interaction. *In* Membrane-active peptides: methods and results on structure and function. Castanho M. (Ed). IUL (International University Line, La Jolla, California, USA.
 44. Loura L, Prieto M. (2007) Resonance energy transfer in biophysics: Formalisms and application to membrane model systems. *In* Springer Series on Fluorescence Vol. IV- Fluorescence of supermolecules, polymers and nanosystems, Berberan-Santos MN. ISSN pp 1617-1306.
 45. Loura L, Prieto M. (2007) Fluorescence resonance energy transfer to characterize cholesterol-induced domains. *In* Methods in Membrane Lipids, Series: Methods in Molecular Biology. Dopico A, (Ed.). Humana Press, NY, ISBN: 1-58829-662-8, pp 489-501.
 46. Mateo R, Almeida R, Loura L, Prieto M. (2006) From lipid phases to membrane protein organization: Fluorescence methodologies on the study of lipid-protein interaction. *In* Protein-lipid interaction. New approaches and emerging concepts. Springer Series in Biophysics. Vol. 9. Eds. González-Ros JM, Mateo CR, Gómez-Perez J, Villalain J. Springer-Verlag, N.Y. ISBN: 3-540-28400-1.

47. de Almeida RFM, Borst JW, Hink M, M Priet., Visser T.(2006) Lipid domains and rafts studied by time-resolved fluorescence microspectroscopy. *In Biochemistry and biophysics of lipids*, Pramanik A. (Ed.). Research signpost, Kerala, India, pp. 31-62.
48. Loura L, Almeida R, Prieto M. (2005) Applications of fluorescence to understand the interactions of peptides with binary lipid membranes. *In Reviews in Fluorescence*. Geddes C, Lakowicz JR (Eds.). Springer (ISBN: 0-387-23628-7) pp. 271-323.
49. Antollini S, Bayer J, Blanton M, Bonini I, De los Santos B, Gallegos MC, Garbus I, Pediconi MF, Prieto M, Roccamo AM, Wenz J, Barrantes FJ. (2004) Structure and dynamics of acetylcholine receptor and its lipid microenvironment: From molecule to cell. *In Cholinergic Mechanisms*, Fisher A, Soreq H. Taylor and Francis Medical, London, UK, pp. 33-38.