Ismael Mingarro

List of Publications by Citations

90 papers	2,304 citations	29 h-index	44 g-index
98 ext. papers	2,608 ext. citations	5.2 avg, IF	4.71 L-index

#	Paper	IF	Citations
90	Interfacial activation-based molecular bioimprinting of lipolytic enzymes. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 3308-12	11.5	129
89	Activation of the p75 neurotrophin receptor through conformational rearrangement of disulphide-linked receptor dimers. *Neuron*, **2009**, 62, 72-83	13.9	115
88	Membrane-insertion fragments of Bcl-xL, Bax, and Bid. *Biochemistry*, **2004**, 43, 10930-43	3.2	115
87	Peptides corresponding to helices 5 and 6 of Bax can independently form large lipid pores. *FEBS Journal*, **2006**, 273, 971-81	5.7	89
86	Peptides derived from apoptotic Bax and Bid reproduce the poration activity of the parent full-length proteins. *Biophysical Journal*, **2005**, 88, 3976-90	2.9	84
85	Different conformations of nascent polypeptides during translocation across the ER membrane. *BMC Cell Biology*, **2000**, 1, 3		71
84	Ala-insertion scanning mutagenesis of the glycophorin A transmembrane helix: a rapid way to map helix-helix interactions in integral membrane proteins. *Protein Science*, **1996**, 5, 1339-41	6.3	68
83	Small molecule inhibitors of Apaf-1-related caspase- 3/-9 activation that control mitochondrial-dependent apoptosis. *Cell Death and Differentiation*, **2006**, 13, 1523-32	12.7	64
82	The ER-Membrane Transport System Is Critical for Intercellular Trafficking of the NSm Movement Protein and Tomato Spotted Wilt Tospovirus. *PLoS Pathogens*, **2016**, 12, e1005443	7.6	55
81	Bax transmembrane domain interacts with prosurvival Bcl-2 proteins in biological membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 310-315	11.5	54
80	Influence of proline residues in transmembrane helix packing. *Journal of Molecular Biology*, **2004**, 335, 631-40	6.5	54
79	Structure-based statistical analysis of transmembrane helices. *European Biophysics Journal*, **2013**, 42, 199-207	1.9	50
78	Synthetic pulmonary surfactant preparations: new developments and future trends. *Current Medicinal Chemistry*, **2008**, 15, 393-403	4.3	50
77	The Tobacco mosaic virus movement protein associates with but does not integrate into biological membranes. *Journal of Virology*, **2014**, 88, 3016-26	6.6	48
76	Insertion and topology of a plant viral movement protein in the endoplasmic reticulum membrane. *Journal of Biological Chemistry*, **2002**, 277, 23447-52	5.4	46
75	N-glycosylation efficiency is determined by the distance to the C-terminus and the amino acid preceding an Asn-Ser-Thr sequon. *Protein Science*, **2011**, 20, 179-86	6.3	44
74	Trapping of different lipase conformers in water-restricted environments. *Biochemistry*, **1996**, 35, 9935-42	3.2	39

73	Helix-helix packing in a membrane-like environment. *Journal of Molecular Biology*, **1997**, 272, 633-41	6.5	38
72	Double-spanning plant viral movement protein integration into the endoplasmic reticulum membrane is signal recognition particle-dependent, translocon-mediated, and concerted. *Journal of Biological Chemistry*, **2005**, 280, 25907-12	5.4	37
71	Plant virus cell-to-cell movement is not dependent on the transmembrane disposition of its movement protein. *Journal of Virology*, **2009**, 83, 5535-43	6.6	34
70	RNA-binding properties and membrane insertion of Melon necrotic spot virus (MNSV) double gene block movement proteins. *Virology*, **2006**, 356, 57-67	3.6	34
69	Sec61alpha and TRAM are sequentially adjacent to a nascent viral membrane protein during its ER integration. *Journal of Molecular Biology*, **2007**, 366, 366-74	6.5	34
68	Membrane insertion and topology of the p7B movement protein of Melon Necrotic Spot Virus (MNSV). *Virology*, **2007**, 367, 348-57	3.6	33
67	Mutational analysis of the RNA-binding domain of the Prunus necrotic ringspot virus (PNRSV) movement protein reveals its requirement for cell-to-cell movement. *Virology*, **2005**, 339, 31-41	3.6	33
66	Membrane integration of poliovirus 2B viroporin. *Journal of Virology*, **2011**, 85, 11315-24	6.6	32
65	Distant downstream sequence determinants can control N-tail translocation during protein insertion into the endoplasmic reticulum membrane. *Journal of Biological Chemistry*, **2000**, 275, 6207-13	5.4	32
64	The genome sequencing of an albino Western lowland gorilla reveals inbreeding in the wild. *BMC Genomics*, **2013**, 14, 363	4.5	30
63	Palmitoylation of pulmonary surfactant protein SP-C is critical for its functional cooperation with SP-B to sustain compression/expansion dynamics in cholesterol-containing surfactant films. *Biophysical Journal*, **2010**, 99, 3234-43	2.9	30
62	Influence of hydrophobic matching on association of model transmembrane fragments containing a minimised glycophorin A dimerisation motif. *FEBS Letters*, **2005**, 579, 1633-8	3.8	30
61	Membrane insertion and topology of the translocating chain-associating membrane protein (TRAM). *Journal of Molecular Biology*, **2011**, 406, 571-82	6.5	29
60	SARS-CoV-2 envelope protein topology in eukaryotic membranes. *Open Biology*, **2020**, 10, 200209	7	29
59	Exploring the Human-Nipah Virus Protein-Protein Interactome. *Journal of Virology*, **2017**, 91,	6.6	28
58	The surfactant peptide KL4 sequence is inserted with a transmembrane orientation into the endoplasmic reticulum membrane. *Biophysical Journal*, **2008**, 95, L36-8	2.9	28
57	Roles of a conserved proline in the internal fusion peptide of Ebola glycoprotein. *FEBS Letters*, **2004**, 569, 261-6	3.8	28
56	Influence of the C-terminus of the glycophorin A transmembrane fragment on the dimerization process. *Protein Science*, **2000**, 9, 1246-53	6.3	28

55	Membrane protein integration into the endoplasmic reticulum. *FEBS Journal*, **2011**, 278, 3846-58	5.7	26
54	Membrane insertion and biogenesis of the Turnip crinkle virus p9 movement protein. *Journal of Virology*, **2010**, 84, 5520-7	6.6	26
53	Identification from a positional scanning peptoid library of in vivo active compounds that neutralize bacterial endotoxins. *Journal of Medicinal Chemistry*, **2005**, 48, 1265-8	8.3	26
52	Charge pair interactions in transmembrane helices and turn propensity of the connecting sequence promote helical hairpin insertion. *Journal of Molecular Biology*, **2013**, 425, 830-40	6.5	25
51	Activation of bee venom phospholipase A2 through a peptide-enzyme complex. *FEBS Letters*, **1995**, 372, 131-4	3.8	25
50	Characterization of acylating and deacylating activities of an extracellular phospholipase A2 in a water-restricted environment. *Biochemistry*, **1994**, 33, 4652-60	3.2	21
49	Polar/Ionizable residues in transmembrane segments: effects on helix-helix packing. *PLoS ONE*, **2012**, 7, e44263	3.7	20
48	Production and characterisation of recombinant forms of human pulmonary surfactant protein C (SP-C): Structure and surface activity. *Biochimica Et Biophysica Acta - Biomembranes*, **2006**, 1758, 509-18	3.8	19
47	The role of hydrophobic matching on transmembrane helix packing in cells. *Cell Stress*, **2017**, 1, 90-106	5.5	19
46	Human Peroxin PEX3 Is Co-translationally Integrated into the ER and Exits the ER in Budding Vesicles. *Traffic*, **2016**, 17, 117-30	5.7	19
45	Calcium-dependent conformational changes of membrane-bound Ebola fusion peptide drive vesicle fusion. *FEBS Letters*, **2003**, 535, 23-8	3.8	18
44	Transmembrane but not soluble helices fold inside the ribosome tunnel. *Nature Communications*, **2018**, 9, 5246	17.4	18
43	Interfacial behavior of recombinant forms of human pulmonary surfactant protein SP-C. *Langmuir*, **2012**, 28, 7811-25	4	16
42	BB0172, a Borrelia burgdorferi outer membrane protein that binds integrin 31. *Journal of Bacteriology*, **2013**, 195, 3320-30	3.5	16
41	Ionic self-complementarity induces amyloid-like fibril formation in an isolated domain of a plant copper metallochaperone protein. *BMC Structural Biology*, **2004**, 4, 7	2.7	16
40	The structural plasticity of the C terminus of p21Cip1 is a determinant for target protein recognition. *ChemBioChem*, **2003**, 4, 863-9	3.8	16
39	Viral membrane protein topology is dictated by multiple determinants in its sequence. *Journal of Molecular Biology*, **2009**, 387, 113-28	6.5	15
38	Membrane-protein engineering. *Trends in Biotechnology*, **1997**, 15, 432-7	15.1	14

37	Consensus structural models for the amino terminal domain of the retrovirus restriction gene Fv1 and the murine leukaemia virus capsid proteins. *BMC Structural Biology*, **2004**, 4, 1	2.7	14
36	Biological insertion of computationally designed short transmembrane segments. *Scientific Reports*, **2016**, 6, 23397	4.9	14
35	Membrane insertion and topology of the translocon-associated protein (TRAP) gamma subunit. *Biochimica Et Biophysica Acta - Biomembranes*, **2017**, 1859, 903-909	3.8	13
34	Peptides derived from the transmembrane domain of Bcl-2 proteins as potential mitochondrial priming tools. *ACS Chemical Biology*, **2014**, 9, 1799-811	4.9	13
33	Transient structural ordering of the RNA-binding domain of carnation mottle virus p7 movement protein modulates nucleic acid binding. *ChemBioChem*, **2005**, 6, 1391-6	3.8	13
32	Proteomic composition of Nipah virus-like particles. *Journal of Proteomics*, **2018**, 172, 190-200	3.9	12
31	Membrane topology of gp41 and amyloid precursor protein: interfering transmembrane interactions as potential targets for HIV and Alzheimer treatment. *Biochimica Et Biophysica Acta - Biomembranes*, **2009**, 1788, 2132-41	3.8	10
30	Hexapeptides that interfere with HIV-1 fusion peptide activity in liposomes block GP41-mediated membrane fusion. *FEBS Letters*, **2006**, 580, 2561-6	3.8	10
29	Mcl-1 and Bok transmembrane domains: Unexpected players in the modulation of apoptosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27980-27988	11.5	10
28	Peptides in apoptosis research. *Journal of Peptide Science*, **2002**, 8, 543-60	2.1	9
27	The C-terminal Domains of Apoptotic BH3-only Proteins Mediate Their Insertion into Distinct Biological Membranes. *Journal of Biological Chemistry*, **2016**, 291, 25207-25216	5.4	8
26	Viroporins, Examples of the Two-Stage Membrane Protein Folding Model. *Viruses*, **2015**, 7, 3462-82	6.2	8
25	Stitching proteins into membranes, not sew simple. *Biological Chemistry*, **2014**, 395, 1417-24	4.5	8
24	Identification of peptides that neutralize bacterial endotoxins using beta-hairpin conformationally restricted libraries. *Molecular Diversity*, **2000**, 5, 117-26	3.1	7
23	Viral Bcl2s Transmembrane domain interact with host Bcl2 proteins to control cellular apoptosis. *Nature Communications*, **2020**, 11, 6056	17.4	7
22	Molecular and topological membrane folding determinants of transient receptor potential vanilloid 2 channel. *Biochemical and Biophysical Research Communications*, **2015**, 462, 221-6	3.4	6
21	NMR Investigation of Structures of G-protein Coupled Receptor Folding Intermediates. *Journal of Biological Chemistry*, **2016**, 291, 27170-27186	5.4	6
20	The SARS-CoV-2 envelope (E) protein has evolved towards membrane topology robustness. *Biochimica Et Biophysica Acta - Biomembranes*, **2021**, 1863, 183608	3.8	6

19	A Bimolecular Multicellular Complementation System for the Detection of Syncytium Formation: A New Methodology for the Identification of Nipah Virus Entry Inhibitors. *Viruses*, **2019**, 11,	6.2	4
18	N-Linked Glycosylation of the p24 Family Protein p24β Modulates Retrograde Golgi-to-ER Transport of K/HDEL Ligands in Arabidopsis. *Molecular Plant*, **2017**, 10, 1095-1106	14.4	4
17	Role of pulmonary surfactant protein Sp-C dimerization on membrane fragmentation: An emergent mechanism involved in lung defense and homeostasis. *Biochimica Et Biophysica Acta - Biomembranes*, **2021**, 1863, 183572	3.8	4
16	Insertion of Bacteriorhodopsin Helix C Variants into Biological Membranes. *ACS Omega*, **2020**, 5, 556-560	3.9	3
15	A transmembrane serine residue in the Rot1 protein is essential for yeast cell viability. *Biochemical Journal*, **2014**, 458, 239-49	3.8	3
14	Interfacial Activation-Based Molecular Bioimprinting: Towards a More Rational Use of Lipolytic Enzymes in Nonaqueous Media **1996**, 229-242		3
13	Conformational Clamping by a Membrane Ligand Activates the EphA2 Receptor. *Journal of Molecular Biology*, **2021**, 433, 167144	6.5	3
12	Controllable membrane remodeling by a modified fragment of the apoptotic protein Bax. *Faraday Discussions*, **2021**,	3.6	2
11	Characterization of the inner membrane protein BB0173 from Borrelia burgdorferi. *BMC Microbiology*, **2017**, 17, 219	4.5	1
10	Direct HPLC Monitoring of Lipase Activity in Reverse Micellar Media. *Journal of Liquid Chromatography and Related Technologies*, **1995**, 18, 235-244		1
9	Cetylpyridinium chloride promotes disaggregation of SARS-CoV-2 virus-like particles.. *Journal of Oral Microbiology*, **2022**, 14, 2030094	6.3	1
8	Folding and Insertion of Transmembrane Helices at the ER. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
7	SARS-CoV-2 envelope protein topology in eukaryotic membranes		1
6	Conformational clamping by a membrane ligand activates the EphA2 receptor		1
5	Intra-helical salt bridge contribution to membrane protein insertion.. *Journal of Molecular Biology*, **2022**, 434, 167467	6.5	0
4	Methodological approaches for the analysis of transmembrane domain interactions: A systematic review. *Biochimica Et Biophysica Acta - Biomembranes*, **2021**, 1863, 183712	3.8	0
3	Membrane-Perturbing Activities of KL4-Related Surfactant Peptides. *Biophysical Journal*, **2013**, 104, 94a-95a	2.9	
2	Helix-Helix Packing Between Transmembrane Fragments. *Principles and Practice*, **2004**, 1-14		

1 The importance of transmembrane domain interactions in the viral control of apoptosis. *Molecular and Cellular Oncology*, **2021**, 8, 1911290 1.2