Miguel A Castanho

List of Publications by Citations

213 papers	6,856 citations	43 h-index	75 g-index
229 ext. papers	7,725 ext. citations	4.5 avg, IF	5.99 L-index

#	Paper	IF	Citations
213	Antimicrobial peptides: linking partition, activity and high membrane-bound concentrations. *Nature Reviews Microbiology*, **2009**, 7, 245-50	22.2	469
212	From antimicrobial to anticancer peptides. A review. *Frontiers in Microbiology*, **2013**, 4, 294	5.7	411
211	Cell-penetrating peptides and antimicrobial peptides: how different are they?. *Biochemical Journal*, **2006**, 399, 1-7	3.8	324
210	Quantifying molecular partition into model systems of biomembranes: an emphasis on optical spectroscopic methods. *Biochimica Et Biophysica Acta - Biomembranes*, **2003**, 1612, 123-35	3.8	210
209	Extracellular alpha-synuclein oligomers modulate synaptic transmission and impair LTP via NMDA-receptor activation. *Journal of Neuroscience*, **2012**, 32, 11750-62	6.6	180
208	An overview of the biophysical applications of atomic force microscopy. *Biophysical Chemistry*, **2004** , 107, 133-49	3.5	176
207	Receptors and routes of dengue virus entry into the host cells. *FEMS Microbiology Reviews*, **2015**, 39, 155-70	15.1	169
206	Escherichia coli cell surface perturbation and disruption induced by antimicrobial peptides BP100 and pepR. *Journal of Biological Chemistry*, **2010**, 285, 27536-44	5.4	169
205	Arginine-rich self-assembling peptides as potent antibacterial gels. *Biomaterials*, **2012**, 33, 8907-16	15.6	168
204	Decoding the membrane activity of the cyclotide kalata B1: the importance of phosphatidylethanolamine phospholipids and lipid organization on hemolytic and anti-HIV activities. *Journal of Biological Chemistry*, **2011**, 286, 24231-41	5.4	122
203	Design and characterization of novel antimicrobial peptides, R-BP100 and RW-BP100, with activity against Gram-negative and Gram-positive bacteria. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 944-55	3.8	116
202	Evaluation of lipopolysaccharide aggregation by light scattering spectroscopy. *ChemBioChem*, **2003** , 4, 96-100	3.8	112
201	Phosphatidylethanolamine binding is a conserved feature of cyclotide-membrane interactions. *Journal of Biological Chemistry*, **2012**, 287, 33629-43	5.4	94
200	Dengue virus capsid protein binding to hepatic lipid droplets (LD) is potassium ion dependent and is mediated by LD surface proteins. *Journal of Virology*, **2012**, 86, 2096-108	6.6	93
199	Translocation of beta-galactosidase mediated by the cell-penetrating peptide pep-1 into lipid vesicles and human HeLa cells is driven by membrane electrostatic potential. *Biochemistry*, **2005**, 44, 10189-98	3.2	88
198	Interaction of the major epitope region of HIV protein gp41 with membrane model systems. A fluorescence spectroscopy study. *Biochemistry*, **1998**, 37, 8674-82	3.2	85
197	Biophysical characterization of polymyxin B interaction with LPS aggregates and membrane model systems. *Biopolymers*, **2012**, 98, 338-44	2.2	82

196	Amidated and Ibuprofen-Conjugated Kyotorphins Promote Neuronal Rescue and Memory Recovery in Cerebral Hypoperfusion Dementia Model. *Frontiers in Aging Neuroscience*, **2016**, 8, 1	5.3	79
195	Fluorescence quenching data interpretation in biological systems. The use of microscopic models for data analysis and interpretation of complex systems. *Biochimica Et Biophysica Acta - Biomembranes*, **1998**, 1373, 1-16	3.8	74
194	A mechanistic paradigm for broad-spectrum antivirals that target virus-cell fusion. *PLoS Pathogens*, **2013**, 9, e1003297	7.6	72
193	Synergistic effects of the membrane actions of cecropin-melittin antimicrobial hybrid peptide BP100. *Biophysical Journal*, **2009**, 96, 1815-27	2.9	72
192	PrP(106-126) does not interact with membranes under physiological conditions. *Biophysical Journal*, **2008**, 95, 1877-89	2.9	70
191	The disordered N-terminal region of dengue virus capsid protein contains a lipid-droplet-binding motif. *Biochemical Journal*, **2012**, 444, 405-15	3.8	68
190	What can light scattering spectroscopy do for membrane-active peptide studies?. *Journal of Peptide Science*, **2008**, 14, 394-400	2.1	68
189	rBPI(21) promotes lipopolysaccharide aggregation and exerts its antimicrobial effects by (hemi)fusion of PG-containing membranes. *PLoS ONE*, **2009**, 4, e8385	3.7	66
188	HIV fusion inhibitor peptide T-1249 is able to insert or adsorb to lipidic bilayers. Putative correlation with improved efficiency. *Journal of the American Chemical Society*, **2004**, 126, 14758-63	16.4	65
187	Putative role of membranes in the HIV fusion inhibitor enfuvirtide mode of action at the molecular level. *Biochemical Journal*, **2004**, 377, 107-10	3.8	60
186	Antimicrobial protein rBPI21-induced surface changes on Gram-negative and Gram-positive bacteria. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 543-51	6	58
185	Using zeta-potential measurements to quantify peptide partition to lipid membranes. *European Biophysics Journal*, **2011**, 40, 481-7	1.9	57
184	Lipid membrane-induced optimization for ligand-receptor docking: recent tools and insights for the "membrane catalysis" model. *European Biophysics Journal*, **2006**, 35, 92-103	1.9	57
183	Cell-penetrating peptides: A tool for effective delivery in gene-targeted therapies. *IUBMB Life*, **2014**, 66, 182-194	4.7	55
182	Quantitative assessment of peptide-lipid interactions. Ubiquitous fluorescence methodologies. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 1999-2012	3.8	54
181	Omiganan pentahydrochloride in the front line of clinical applications of antimicrobial peptides. *Recent Patents on Anti-infective Drug Discovery*, **2006**, 1, 201-7	1.6	54
180	Mechanisms of bacterial membrane permeabilization by crotalicidin (Ctn) and its fragment Ctn(15-34), antimicrobial peptides from rattlesnake venom. *Journal of Biological Chemistry*, **2018**, 293, 1536-1549	5.4	51
179	Dengue virus capsid protein interacts specifically with very low-density lipoproteins. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 247-55	6	48

178	Sifuvirtide screens rigid membrane surfaces. establishment of a correlation between efficacy and membrane domain selectivity among HIV fusion inhibitor peptides. *Journal of the American Chemical Society*, **2008**, 130, 6215-23	16.4	48
177	Antibody Approaches To Treat Brain Diseases. *Trends in Biotechnology*, **2016**, 34, 36-48	15.1	46
176	Anticancer peptide SVS-1: efficacy precedes membrane neutralization. *Biochemistry*, **2012**, 51, 6263-5	3.2	45
175	Joint determination by Brownian dynamics and fluorescence quenching of the in-depth location profile of biomolecules in membranes. *Analytical Biochemistry*, **2002**, 307, 1-12	3.1	45
174	Separating the turbidity spectra of vesicles from the absorption spectra of membrane probes and other chromophores. *European Biophysics Journal*, **1997**, 26, 253-259	1.9	44
173	Filipin-induced lesions in planar phospholipid bilayers imaged by atomic force microscopy. *Biophysical Journal*, **1998**, 75, 1869-73	2.9	44
172	Apoptotic human neutrophil peptide-1 anti-tumor activity revealed by cellular biomechanics. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2015**, 1853, 308-16	4.9	43
171	The antimicrobial activity of Sub3 is dependent on membrane binding and cell-penetrating ability. *ChemBioChem*, **2013**, 14, 2013-22	3.8	43
170	Omiganan interaction with bacterial membranes and cell wall models. Assigning a biological role to saturation. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 1277-90	3.8	43
169	Environmental factors that enhance the action of the cell penetrating peptide pep-1 A spectroscopic study using lipidic vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **2005**, 1669, 75-86	3.8	43
168	Prediction of antibacterial activity from physicochemical properties of antimicrobial peptides. *PLoS ONE*, **2011**, 6, e28549	3.7	40
167	Energy-independent translocation of cell-penetrating peptides occurs without formation of pores. A biophysical study with pep-1. *Molecular Membrane Biology*, **2007**, 24, 282-93	3.4	40
166	Translocating the blood-brain barrier using electrostatics. *Frontiers in Cellular Neuroscience*, **2012**, 6, 44	6.1	39
165	Biomedical applications of dipeptides and tripeptides. *Biopolymers*, **2012**, 98, 288-93	2.2	39
164	Interaction of the Dengue virus fusion peptide with membranes assessed by NMR: The essential role of the envelope protein Trp101 for membrane fusion. *Journal of Molecular Biology*, **2009**, 392, 736-46	6.5	39
163	Conjugation of cholesterol to HIV-1 fusion inhibitor C34 increases peptide-membrane interactions potentiating its action. *PLoS ONE*, **2013**, 8, e60302	3.7	39
162	HIV-1 fusion inhibitor peptides enfuvirtide and T-1249 interact with erythrocyte and lymphocyte membranes. *PLoS ONE*, **2010**, 5, e9830	3.7	37
161	Re-evaluating the role of strongly charged sequences in amphipathic cell-penetrating peptides: a fluorescence study using Pep-1. *FEBS Letters*, **2005**, 579, 4498-502	3.8	37

160	Understanding dengue virus capsid protein disordered N-Terminus and pep14-23-based inhibition. *ACS Chemical Biology*, **2015**, 10, 517-26	4.9	36
159	Translocation or membrane disintegration? Implication of peptide-membrane interactions in pep-1 activity. *Journal of Peptide Science*, **2008**, 14, 482-7	2.1	34
158	Monitoring antibacterial permeabilization in real time using time-resolved flow cytometry. *Biochimica Et Biophysica Acta - Biomembranes*, **2015**, 1848, 554-60	3.8	33
157	Broad spectrum antiviral activity for paramyxoviruses is modulated by biophysical properties of fusion inhibitory peptides. *Scientific Reports*, **2017**, 7, 43610	4.9	32
156	Singlet oxygen effects on lipid membranes: implications for the mechanism of action of broad-spectrum viral fusion inhibitors. *Biochemical Journal*, **2014**, 459, 161-70	3.8	32
155	Nucleic acid delivery by cell penetrating peptides derived from dengue virus capsid protein: design and mechanism of action. *FEBS Journal*, **2014**, 281, 191-215	5.7	32
154	Rethinking the capsid proteins of enveloped viruses: multifunctionality from genome packaging to genome transfection. *FEBS Journal*, **2015**, 282, 2267-78	5.7	31
153	How to address CPP and AMP translocation? Methods to detect and quantify peptide internalization in vitro and in vivo (Review). *Molecular Membrane Biology*, **2007**, 24, 173-84	3.4	31
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151	Improvement of HIV fusion inhibitor C34 efficacy by membrane anchoring and enhanced exposure. *Journal of Antimicrobial Chemotherapy*, **2014**, 69, 1286-97	5.1	30
150	Intracellular nucleic acid delivery by the supercharged dengue virus capsid protein. *PLoS ONE*, **2013**, 8, e81450	3.7	30
149	Chemical conjugation of the neuropeptide kyotorphin and ibuprofen enhances brain targeting and analgesia. *Molecular Pharmaceutics*, **2011**, 8, 1929-40	5.6	30
148	The toxicity of prion protein fragment PrP(106-126) is not mediated by membrane permeabilization as shown by a M112W substitution. *Biochemistry*, **2009**, 48, 4198-208	3.2	30
147	Mining viral proteins for antimicrobial and cell-penetrating drug delivery peptides. *Bioinformatics*, **2015**, 31, 2252-6	7.2	29
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145	Revealing the Orientation of Nystatin and Amphotericin B in Lipidic Multilayers by UV–Vis Linear Dichroism. *Journal of Physical Chemistry B*, **2002**, 106, 7278-7282	3.4	29
144	Rod-like cholesterol micelles in aqueous solution studied using polarized and depolarized dynamic light scattering. *Biophysical Journal*, **1992**, 63, 1455-61	2.9	29
143	In Vivo Efficacy of Measles Virus Fusion Protein-Derived Peptides Is Modulated by the Properties of Self-Assembly and Membrane Residence. *Journal of Virology*, **2017**, 91,	6.6	28

142	Unravelling the molecular basis of the selectivity of the HIV-1 fusion inhibitor sifuvirtide towards phosphatidylcholine-rich rigid membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 1234-43	3.8	28
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140	Drug-lipid interaction evaluation: why a 19th century solution?. *Trends in Pharmacological Sciences*, **2010**, 31, 449-54	13.2	27
139	Peptibodies: An elegant solution for a long-standing problem. *Peptide Science*, **2017**, 110, e23095	3	26
138	New Potent Membrane-Targeting Antibacterial Peptides from Viral Capsid Proteins. *Frontiers in Microbiology*, **2017**, 8, 775	5.7	26
137	The Mechanism of Action of Antimicrobial Peptides: Lipid Vesicles vs. Bacteria. *Frontiers in Immunology*, **2012**, 3, 236	8.4	25
136	Fast membrane association is a crucial factor in the peptide pep-1 translocation mechanism: a kinetic study followed by surface plasmon resonance. *Biopolymers*, **2010**, 94, 314-22	2.2	24
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134	Interactions of HIV-1 antibodies 2F5 and 4E10 with a gp41 epitope prebound to host and viral membrane model systems. *ChemBioChem*, **2009**, 10, 1032-44	3.8	23
133	Using UV-Vis. Linear Dichroism to Study the Orientation of Molecular Probes and Biomolecules in Lipidic Membranes. *Spectroscopy*, **2003**, 17, 377-398		23
132	siRNA-cell-penetrating peptides complexes as a combinatorial therapy against chronic myeloid leukemia using BV173 cell line as model. *Journal of Controlled Release*, **2017**, 245, 127-136	11.7	22
131	In vitro blood-brain barrier models--latest advances and therapeutic applications in a chronological perspective. *Mini-Reviews in Medicinal Chemistry*, **2010**, 10, 262-70	3.2	22
130	Quantitative analysis of molecular partition towards lipid membranes using surface plasmon resonance. *Scientific Reports*, **2017**, 7, 45647	4.9	21
129	Antimicrobial peptide rBPI21: a translational overview from bench to clinical studies. *Current Protein and Peptide Science*, **2012**, 13, 611-9	2.8	21
128	Filipin orientation revealed by linear dichroism. Implication for a model of action. *Journal of the American Chemical Society*, **2004**, 126, 5396-402	16.4	21
127	Dps from Deinococcus radiodurans: oligomeric forms of Dps1 with distinct cellular functions and Dps2 involved in metal storage. *FEBS Journal*, **2015**, 282, 4307-27	5.7	20
126	Novel Peptides Derived from Dengue Virus Capsid Protein Translocate Reversibly the Blood-Brain Barrier through a Receptor-Free Mechanism. *ACS Chemical Biology*, **2017**, 12, 1257-1268	4.9	19
125	Structural Studies of a Lipid-Binding Peptide from Tunicate Hemocytes with Anti-Biofilm Activity. *Scientific Reports*, **2016**, 6, 27128	4.9	19

124	Shiga toxin B-subunit sequential binding to its natural receptor in lipid membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 628-36	3.8	19
123	Effective in Vivo Targeting of Influenza Virus through a Cell-Penetrating/Fusion Inhibitor Tandem Peptide Anchored to the Plasma Membrane. *Bioconjugate Chemistry*, **2018**, 29, 3362-3376	6.3	19
122	Synthesis and Characterization of Peptide-Chitosan Conjugates (PepChis) with Lipid Bilayer Affinity and Antibacterial Activity. *Biomacromolecules*, **2019**, 20, 2743-2753	6.9	18
121	Understanding Dengue Virus Capsid Protein Interaction with Key Biological Targets. *Scientific Reports*, **2015**, 5, 10592	4.9	18
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118	Guar gum as a new antimicrobial peptide delivery system against diabetic foot ulcers Staphylococcus aureus isolates. *Journal of Medical Microbiology*, **2016**, 65, 1092-1099	3.2	18
117	Scalable Production of Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles Under Serum-/Xeno-Free Conditions in a Microcarrier-Based Bioreactor Culture System. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 553444	5.7	18
116	Antibodies for the Treatment of Brain Metastases, a Dream or a Reality?. *Pharmaceutics*, **2020**, 12,	6.4	17
115	A New Noncanonical Anionic Peptide That Translocates a Cellular Blood-Brain Barrier Model. *Molecules*, **2017**, 22,	4.8	17
114	Antimicrobial properties of analgesic kyotorphin peptides unraveled through atomic force microscopy. *Biochemical and Biophysical Research Communications*, **2012**, 420, 676-9	3.4	17
113	Anti-HIV-1 antibodies 2F5 and 4E10 interact differently with lipids to bind their epitopes. *Aids*, **2011** , 25, 419-28	3.5	17
112	Fold-unfold transitions in the selectivity and mechanism of action of the N-terminal fragment of the bactericidal/permeability-increasing protein (rBPI(21)). *Biophysical Journal*, **2009**, 96, 987-96	2.9	17
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110	Lidocaine turns the surface charge of biological membranes more positive and changes the permeability of blood-brain barrier culture models. *Biochimica Et Biophysica Acta - Biomembranes*, **2019**, 1861, 1579-1591	3.8	15
109	Conformational and orientational guidance of the analgesic dipeptide kyotorphin induced by lipidic membranes: putative correlation toward receptor docking. *Journal of Physical Chemistry B*, **2006**, 110, 3385-94	3.4	15
108	Bioorthogonal Strategy for Bioprocessing of Specific-Site-Functionalized Enveloped Influenza-Virus-Like Particles. *Bioconjugate Chemistry*, **2016**, 27, 2386-2399	6.3	15
107	Optical coherence tomography angiography study of the retinal vascular plexuses in type 1 diabetes without retinopathy. *Eye*, **2020**, 34, 307-311	4.4	15

106	Challenging metastatic breast cancer with the natural defensin PvD. *Nanoscale*, **2017**, 9, 16887-16899	7.7	14
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102	Lipossomas: a bala m□gica acertou?. *Quimica Nova*, **2002**, 25, 1181-1185	1.6	14
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100	Retinal Vascular Reactivity in Type 1 Diabetes Patients Without Retinopathy Using Optical Coherence Tomography Angiography **2020**, 61, 49		13
99	Hepatitis C virus core protein binding to lipid membranes: the role of domains 1 and 2. *Journal of Viral Hepatitis*, **2008**, 15, 346-56	3.4	13
98	Chiral recognition of D-kyotorphin by lipidic membranes: relevance toward improved analgesic efficiency. *ChemMedChem*, **2006**, 1, 723-8	3.7	13
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94	The influence of cholesterol on the interaction of HIV gp41 membrane proximal region-derived peptides with lipid bilayers. *FEBS Journal*, **2007**, 274, 5096-104	5.7	12
93	Orientational Order of the Polyene Fatty Acid Membrane Probe trans-Parinaric Acid in LangmuirBlodgett Multilayer Films. *Journal of Physical Chemistry B*, **2001**, 105, 562-568	3.4	12
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87	Decoding distinct membrane interactions of HIV-1 fusion inhibitors using a combined atomic force and fluorescence microscopy approach. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 1777-85	3.8	11
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84	Quantifying molecular partition of cell-penetrating peptide-cargo supramolecular complexes into lipid membranes: optimizing peptide-based drug delivery systems. *Journal of Peptide Science*, **2013**, 19, 182-9	2.1	10
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62	Effect of pH on the influenza fusion peptide properties unveiled by constant-pH molecular dynamics simulations combined with experiment. *Scientific Reports*, **2020**, 10, 20082	4.9	7
61	Plant defensin PvD modulates the membrane composition of breast tumour-derived exosomes. *Nanoscale*, **2019**, 11, 23366-23381	7.7	7
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