Sonia Troeira Henriques

List of Publications by Year
in descending order

85 papers	4,009 citations	87888 38 h-index	128289 60 g-index
90 all docs	90 docs citations	90 times ranked	3958 citing authors

#	Article	IF	Citations
1	Cell-penetrating peptides and antimicrobial peptides: how different are they?. Biochemical Journal, 2006, 399, 1-7.	3.7	367
2	Engineering pro-angiogenic peptides using stable, disulfide-rich cyclic scaffolds. Blood, 2011, 118, 6709-6717.	1.4	197
3	Identification and Characterization of a New Family of Cell-penetrating Peptides. Journal of Biological Chemistry, 2011, 286, 36932-36943.	3.4	159
4	Decoding the Membrane Activity of the Cyclotide Kalata B1. Journal of Biological Chemistry, 2011, 286, 24231-24241.	3.4	155
5	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, 944-955.	2.6	144
6	Mode-of-Action of Antimicrobial Peptides: Membrane Disruption vs. Intracellular Mechanisms. Frontiers in Medical Technology, 2020, 2, 610997.	2.5	134
7	Cyclotides as templates in drug design. Drug Discovery Today, 2010, 15, 57-64.	6.4	133
8	Phosphatidylethanolamine Binding Is a Conserved Feature of Cyclotide-Membrane Interactions. Journal of Biological Chemistry, 2012, 287, 33629-33643.	3.4	115
9	Translocation of Î²-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, 10189-10198.	2.5	95
10	Consequences of Nonlytic Membrane Perturbation to the Translocation of the Cell Penetrating Peptide Pep-1 in Lipidic Vesiclesâ€. Biochemistry, 2004, 43, 9716-9724.	2.5	86
11	Mechanisms of bacterial membrane permeabilization by crotalicidin (Ctn) and its fragment Ctn(15â€“34), antimicrobial peptides from rattlesnake venom. Journal of Biological Chemistry, 2018, 293, 1536-1549.	3.4	83
12	PrP(106-126) Does Not Interact with Membranes under Physiological Conditions. Biophysical Journal, 2008, 95, 1877-1889.	0.5	74
13	The Prototypic Cyclotide Kalata B1 Has a Unique Mechanism of Entering Cells. Chemistry and Biology, 2015, 22, 1087-1097.	6.0	71
14	The Cyclic Cystine Ladder in Î¸-Defensins Is Important for Structure and Stability, but Not Antibacterial Activity. Journal of Biological Chemistry, 2013, 288, 10830-10840.	3.4	67
15	Putative role of membranes in the HIV fusion inhibitor enfuvirtide mode of action at the molecular level. Biochemical Journal, 2004, 377, 107-110.	3.7	65
16	Identification, Characterization, and Three-Dimensional Structure of the Novel Circular Bacteriocin, Enterocin NKR-5-3B, from <i>Enterococcus faecium</i>. Biochemistry, 2015, 54, 4863-4876.	2.5	62
17	Interaction of Tarantula Venom Peptide ProTx-II with Lipid Membranes Is a Prerequisite for Its Inhibition of Human Voltage-gated Sodium Channel NaV1.7. Journal of Biological Chemistry, 2016, 291, 17049-17065.	3.4	62
18	Precision medicine by designer interference peptides: applications in oncology and molecular therapeutics. Oncogene, 2020, 39, 1167-1184.	5.9	61

#	Article	IF	Citations
19	Anticancer and Toxic Properties of Cyclotides are Dependent on Phosphatidylethanolamine Phospholipid Targeting. ChemBioChem, 2014, 15, 1956-1965.	2.6	60
20	Design of substrate-based BCR-ABL kinase inhibitors using the cyclotide scaffold. Scientific Reports, 2015, 5, 12974.	3.3	58
21	Gene coevolution and regulation lock cyclic plant defence peptides to their targets. New Phytologist, 2016, 210, 717-730.	7.3	58
22	Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. Cell Chemical Biology, 2018, 25, 380-391.e5.	5.2	57
23	The Antimicrobial Activity of Sub3 is Dependent on Membrane Binding and Cellâ€Penetrating Ability. ChemBioChem, 2013, 14, 2013-2022.	2.6	55
24	Mirror Images of Antimicrobial Peptides Provide Reflections on Their Functions and Amyloidogenic Properties. Journal of the American Chemical Society, 2016, 138, 5706-5713.	13.7	55
25	Converting peptides into drugs targeting intracellular proteinâ€"protein interactions. Drug Discovery Today, 2021, 26, 1521-1531.	6.4	53
26	Importance of the Cell Membrane on the Mechanism of Action of Cyclotides. ACS Chemical Biology, 2012, 7, 626-636.	3.4	52
27	Structural parameters modulating the cellular uptake of disulfide-rich cyclic cell-penetrating peptides: MCoTI-II and SFTI-1. European Journal of Medicinal Chemistry, 2014, 88, 10-18.	5.5	52
28	Bacteria May Cope Differently from Similar Membrane Damage Caused by the Australian Tree Frog Antimicrobial Peptide Maculatin 1.1. Journal of Biological Chemistry, 2015, 290, 19853-19862.	3.4	51
29	Using the MCoTI-II Cyclotide Scaffold To Design a Stable Cyclic Peptide Antagonist of SET, a Protein Overexpressed in Human Cancer. Biochemistry, 2016, 55, 396-405.	2.5	51
30	Energy-independent translocation of cell-penetrating peptides occurs without formation of pores. A biophysical study with pep-1. Molecular Membrane Biology, 2007, 24, 282-293.	2.0	49
31	A Synthetic Mirror Image of Kalata B1 Reveals that Cyclotide Activity Is Independent of a Protein Receptor. ChemBioChem, 2011, 12, 2456-2462.	2.6	49
32	Structural and Functional Analysis of Human Liverâ€Expressed Antimicrobial Peptide 2. ChemBioChem, 2010, 11, 2148-2157.	2.6	48
33	Environmental factors that enhance the action of the cell penetrating peptide pep-1. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1669, 75-86.	2.6	45
34	Cyclotide Structure and Function: The Role of Membrane Binding and Permeation. Biochemistry, 2017, 56, 669-682.	2.5	45
35	Translocation or membrane disintegration? Implication of peptideâ€"membrane interactions in pepâ€1 activity. Journal of Peptide Science, 2008, 14, 482-487.	1.4	44
36	Redesigned Spider Peptide with Improved Antimicrobial and Anticancer Properties. ACS Chemical Biology, 2017, 12, 2324-2334.	3.4	43

#	Article	IF	Citations
37	Re-evaluating the role of strongly charged sequences in amphipathic cell-penetrating peptides. FEBS Letters, 2005, 579, 4498-4502.	2.8	40
38	Spider peptide toxin HwTx-IV engineered to bind to lipid membranes has an increased inhibitory potency at human voltage-gated sodium channel hNa V 1.7. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 835-844.	2.6	40
39	Is the Mirror Image a True Reflection? Intrinsic Membrane Chirality Modulates Peptide Binding. Journal of the American Chemical Society, 2019, 141, 20460-20469.	13.7	39
40	Characterization of Tachyplesin Peptides and Their Cyclized Analogues to Improve Antimicrobial and Anticancer Properties. International Journal of Molecular Sciences, 2019, 20, 4184.	4.1	38
41	Development of a Î¼O-Conotoxin Analogue with Improved Lipid Membrane Interactions and Potency for the Analgesic Sodium Channel NaV1.8. Journal of Biological Chemistry, 2016, 291, 11829-11842.	3.4	37
42	New Potent Membrane-Targeting Antibacterial Peptides from Viral Capsid Proteins. Frontiers in Microbiology, 2017, 8, 775.	3.5	37
43	Gating modifier toxins isolated from spider venom: Modulation of voltage-gated sodium channels and the role of lipid membranes. Journal of Biological Chemistry, 2018, 293, 9041-9052.	3.4	35
44	How to address CPP and AMP translocation? Methods to detect and quantify peptide internalizationin vitroandin vivo(Review). Molecular Membrane Biology, 2007, 24, 173-184.	2.0	34
45	Lysine-rich Cyclotides: A New Subclass of Circular Knotted Proteins from Violaceae. ACS Chemical Biology, 2015, 10, 2491-2500.	3.4	34
46	PHAB toxins: a unique family of predatory sea anemone toxins evolving via intra-gene concerted evolution defines a new peptide fold. Cellular and Molecular Life Sciences, 2018, 75, 4511-4524.	5.4	34
47	Kalata B1 and Kalata B2 Have a Surfactant-Like Activity in Phosphatidylethanolomine-Containing Lipid Membranes. Langmuir, 2017, 33, 6630-6637.	3.5	32
48	Optimization of the cyclotide framework to improve cell penetration properties. Frontiers in Pharmacology, 2015, 6, 17.	3.5	31
49	The Toxicity of Prion Protein Fragment PrP(106â€"126) is Not Mediated by Membrane Permeabilization as Shown by a M112W Substitution. Biochemistry, 2009, 48, 4198-4208.	2.5	30
50	NMR and protein structure in drug design: application to cyclotides and conotoxins. European Biophysics Journal, 2011, 40, 359-370.	2.2	30
51	Development of cellâ€penetrating peptideâ€based drug leads to inhibit MDMX:p53 and MDM2:p53 interactions. Biopolymers, 2016, 106, 853-863.	2.4	29
52	Fast membrane association is a crucial factor in the peptide pepâ€1 translocation mechanism: A kinetic study followed by surface plasmon resonance. Biopolymers, 2010, 94, 314-322.	2.4	28
53	Understanding the Diversity and Distribution of Cyclotides from Plants of Varied Genetic Origin. Journal of Natural Products, 2017, 80, 1522-1530.	3.0	25
54	Membrane-binding properties of gating modifier and pore-blocking toxins: Membrane interaction is not a prerequisite for modification of channel gating. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 872-882.	2.6	22

#	Article	IF	Citations
55	Discovery and mechanistic studies of cytotoxic cyclotides from the medicinal herb Hybanthus enneaspermus. Journal of Biological Chemistry, 2020, 295, 10911-10925.	3.4	22
56	Lengths of the C-Terminus and Interconnecting Loops Impact Stability of Spider-Derived Gating Modifier Toxins. Toxins, 2017, 9, 248.	3.4	21
57	Cyclic Analogues of Horseshoe Crab Peptide Tachyplesin I with Anticancer and Cell Penetrating Properties. ACS Chemical Biology, 2019, 14, 2895-2908.	3.4	21
58	A Novel Quantitative Kinase Assay Using Bacterial Surface Display and Flow Cytometry. PLoS ONE, 2013, 8, e80474.	2.5	20
59	Cyclotide Isolation and Characterization. Methods in Enzymology, 2012, 516, 37-62.	1.0	19
60	Orientation and Location of the Cyclotide Kalata B1 in Lipid Bilayers Revealed by Solid-State NMR. Biophysical Journal, 2017, 112, 630-642.	0.5	19
61	Computer-Aided Design of Mastoparan-like Peptides Enables the Generation of Nontoxic Variants with Extended Antibacterial Properties. Journal of Medicinal Chemistry, 2019, 62, 8140-8151.	6.4	19
62	Gating modifier toxin interactions with ion channels and lipid bilayers: Is the trimolecular complex real?. Neuropharmacology, 2017, 127, 32-45.	4.1	17
63	How to overcome endosomal entrapment of cellâ€penetrating peptides to release the therapeutic potential of peptides?. Peptide Science, 2020, 112, e24168.	1.8	17
64	Cyclic gomesin, a stable redesigned spider peptide able to enter cancer cells. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183480.	2.6	16
65	Angler Peptides: Macrocyclic Conjugates Inhibit p53:MDM2/X Interactions and Activate Apoptosis in Cancer Cells. ACS Chemical Biology, 2021, 16, 414-428.	3.4	16
66	Cell Membrane Composition Drives Selectivity and Toxicity of Designed Cyclic Helixâ€“Loopâ€“Helix Peptides with Cell Penetrating and Tumor Suppressor Properties. ACS Chemical Biology, 2019, 14, 2071-2087.	3.4	15
67	Peptide-Membrane Interactions Affect the Inhibitory Potency and Selectivity of Spider Toxins ProTx-II and GpTx-1. ACS Chemical Biology, 2019, 14, 118-130.	3.4	15
68	The Application of Biophysical Techniques to Study Antimicrobial Peptides. Spectroscopy, 2012, 27, 541-549.	0.8	14
69	Defense Peptides Engineered from Human Platelet Factor 4 Kill Plasmodium by Selective Membrane Disruption. Cell Chemical Biology, 2018, 25, 1140-1150.e5.	5.2	13
70	Lysine to arginine mutagenesis of chlorotoxin enhances its cellular uptake. Biopolymers, 2017, 108, e23025.	2.4	12
71	Cyclic peptide scaffold with ability to stabilize and deliver a helical cell-impermeable cargo across membranes of cultured cancer cells. RSC Chemical Biology, 2020, 1, 405-420.	4.1	12
72	Designed Î²-Hairpins Inhibit LDH5 Oligomerization and Enzymatic Activity. Journal of Medicinal Chemistry, 2021, 64, 3767-3779.	6.4	12

#	Article	IF	Citations
73	Structural and functional characterization of chimeric cyclotides from the MÃ¶bius and trypsin inhibitor subfamilies. Biopolymers, 2017, 108, e22927.	2.4	11
74	Modified horseshoe crab peptides target and kill bacteria inside host cells. Cellular and Molecular Life Sciences, 2022, 79, .	5.4	11
75	Evaluation of Cyclic Peptide Inhibitors of the Grb7 Breast Cancer Target: Small Change in Cargo Results in Large Change in Cellular Activity. Molecules, 2019, 24, 3739.	3.8	7
76	Synthesis, Structure, and Activity of the Antifungal Plant Defensin <i>Pv</i>D₁. Journal of Medicinal Chemistry, 2020, 63, 9391-9402.	6.4	7
77	Safer In Vitro Drug Screening Models for Melioidosis Therapy Development. American Journal of Tropical Medicine and Hygiene, 2020, 103, 1846-1851.	1.4	5
78	Antimicrobial peptides provide wider coverage for targeting drugâ€resistant bacterial pathogens. Peptide Science, 2022, 114, e24246.	1.8	4
79	Investigations into the membrane activity of arenicin antimicrobial peptide AA139. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130156.	2.4	4
80	Is PrP(106-126) Fragment Involved in the Membrane Activity of the Prion Protein?. Current Protein and Peptide Science, 2010, 11, 326-333.	1.4	3
81	Antimicrobial Peptide Mimetics Based on a Diphenylacetylene Scaffold: Synthesis, Conformational Analysis, and Activity. ChemMedChem, 2020, 15, 1932-1939.	3.2	3
82	Structure-Activity Relationship Studies Reveal that the Spider Toxin Protx-II has Unusual Membrane-Binding Properties and Inhibits NAV1.7 Channel at the Membrane Surface. Biophysical Journal, 2016, 110, 76a.	0.5	1
83	Membrane-Binding Properties of Gating-Modifier and Pore Blocking Toxins: Membrane Interaction is not a Prerequisite for Modification of Channel Gating. Biophysical Journal, 2016, 110, 29a.	0.5	0
84	Editorial Overview. Current Opinion in Chemical Biology, 2017, 38, iv-vi.	6.1	0
85	Identification of survival-promoting OSIP108 peptide variants and their internalization in human cells. Mechanisms of Ageing and Development, 2017, 161, 247-254.	4.6	0