

# Sonia Troeira Henriques

## List of Publications by Year in descending order

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85  
papers

4,009  
citations

87886

38  
h-index

128286

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?. <i>Biochemical Journal</i> , 2006, 399, 1-7.	3.7	367
2	Engineering pro-angiogenic peptides using stable, disulfide-rich cyclic scaffolds. <i>Blood</i> , 2011, 118, 6709-6717.	1.4	197
3	Identification and Characterization of a New Family of Cell-penetrating Peptides. <i>Journal of Biological Chemistry</i> , 2011, 286, 36932-36943.	3.4	159
4	Decoding the Membrane Activity of the Cyclotide Kalata B1. <i>Journal of Biological Chemistry</i> , 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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 944-955.	2.6	144
6	Mode-of-Action of Antimicrobial Peptides: Membrane Disruption vs. Intracellular Mechanisms. <i>Frontiers in Medical Technology</i> , 2020, 2, 610997.	2.5	134
7	Cyclotides as templates in drug design. <i>Drug Discovery Today</i> , 2010, 15, 57-64.	6.4	133
8	Phosphatidylethanolamine Binding Is a Conserved Feature of Cyclotide-Membrane Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 33629-33643.	3.4	115
9	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. <i>Biochemistry</i> , 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 Vesicles. <i>Biochemistry</i> , 2004, 43, 9716-9724.	2.5	86
11	Mechanisms of bacterial membrane permeabilization by crotalicidin (Ctn) and its fragment Ctn(15-34), antimicrobial peptides from rattlesnake venom. <i>Journal of Biological Chemistry</i> , 2018, 293, 1536-1549.	3.4	83
12	PrP(106-126) Does Not Interact with Membranes under Physiological Conditions. <i>Biophysical Journal</i> , 2008, 95, 1877-1889.	0.5	74
13	The Prototypic Cyclotide Kalata B1 Has a Unique Mechanism of Entering Cells. <i>Chemistry and Biology</i> , 2015, 22, 1087-1097.	6.0	71
14	The Cyclic Cystine Ladder in $\beta$ -Defensins Is Important for Structure and Stability, but Not Antibacterial Activity. <i>Journal of Biological Chemistry</i> , 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. <i>Biochemical Journal</i> , 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> . <i>Biochemistry</i> , 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. <i>Journal of Biological Chemistry</i> , 2016, 291, 17049-17065.	3.4	62
18	Precision medicine by designer interference peptides: applications in oncology and molecular therapeutics. <i>Oncogene</i> , 2020, 39, 1167-1184.	5.9	61

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19	Anticancer and Toxic Properties of Cyclotides are Dependent on Phosphatidylethanolamine Phospholipid Targeting. <i>ChemBioChem</i> , 2014, 15, 1956-1965.	2.6	60
20	Design of substrate-based BCR-ABL kinase inhibitors using the cyclotide scaffold. <i>Scientific Reports</i> , 2015, 5, 12974.	3.3	58
21	Gene coevolution and regulation lock cyclic plant defence peptides to their targets. <i>New Phytologist</i> , 2016, 210, 717-730.	7.3	58
22	Structure, Function, and Biosynthetic Origin of Octapeptin Antibiotics Active against Extensively Drug-Resistant Gram-Negative Bacteria. <i>Cell Chemical Biology</i> , 2018, 25, 380-391.e5.	5.2	57
23	The Antimicrobial Activity of Sub3 is Dependent on Membrane Binding and Cell Penetrating Ability. <i>ChemBioChem</i> , 2013, 14, 2013-2022.	2.6	55
24	Mirror Images of Antimicrobial Peptides Provide Reflections on Their Functions and Amyloidogenic Properties. <i>Journal of the American Chemical Society</i> , 2016, 138, 5706-5713.	13.7	55
25	Converting peptides into drugs targeting intracellular protein-protein interactions. <i>Drug Discovery Today</i> , 2021, 26, 1521-1531.	6.4	53
26	Importance of the Cell Membrane on the Mechanism of Action of Cyclotides. <i>ACS Chemical Biology</i> , 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. <i>European Journal of Medicinal Chemistry</i> , 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. <i>Journal of Biological Chemistry</i> , 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. <i>Biochemistry</i> , 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. <i>Molecular Membrane Biology</i> , 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. <i>ChemBioChem</i> , 2011, 12, 2456-2462.	2.6	49
32	Structural and Functional Analysis of Human Liver-Expressed Antimicrobial Peptide 2. <i>ChemBioChem</i> , 2010, 11, 2148-2157.	2.6	48
33	Environmental factors that enhance the action of the cell penetrating peptide pep-1. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1669, 75-86.	2.6	45
34	Cyclotide Structure and Function: The Role of Membrane Binding and Permeation. <i>Biochemistry</i> , 2017, 56, 669-682.	2.5	45
35	Translocation or membrane disintegration? Implication of peptide-membrane interactions in pep-1 activity. <i>Journal of Peptide Science</i> , 2008, 14, 482-487.	1.4	44
36	Redesigned Spider Peptide with Improved Antimicrobial and Anticancer Properties. <i>ACS Chemical Biology</i> , 2017, 12, 2324-2334.	3.4	43

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37	Re-evaluating the role of strongly charged sequences in amphipathic cell-penetrating peptides. <i>FEBS Letters</i> , 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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 835-844.	2.6	40
39	Is the Mirror Image a True Reflection? Intrinsic Membrane Chirality Modulates Peptide Binding. <i>Journal of the American Chemical Society</i> , 2019, 141, 20460-20469.	13.7	39
40	Characterization of Tachyplesin Peptides and Their Cyclized Analogues to Improve Antimicrobial and Anticancer Properties. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4184.	4.1	38
41	Development of a $\beta$ -O-Conotoxin Analogue with Improved Lipid Membrane Interactions and Potency for the Analgesic Sodium Channel NaV1.8. <i>Journal of Biological Chemistry</i> , 2016, 291, 11829-11842.	3.4	37
42	New Potent Membrane-Targeting Antibacterial Peptides from Viral Capsid Proteins. <i>Frontiers in Microbiology</i> , 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. <i>Journal of Biological Chemistry</i> , 2018, 293, 9041-9052.	3.4	35
44	How to address CPP and AMP translocation? Methods to detect and quantify peptide internalization in vitro and in vivo (Review). <i>Molecular Membrane Biology</i> , 2007, 24, 173-184.	2.0	34
45	Lysine-rich Cyclotides: A New Subclass of Circular Knotted Proteins from Violaceae. <i>ACS Chemical Biology</i> , 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. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 4511-4524.	5.4	34
47	Kalata B1 and Kalata B2 Have a Surfactant-Like Activity in Phosphatidylethanolamine-Containing Lipid Membranes. <i>Langmuir</i> , 2017, 33, 6630-6637.	3.5	32
48	Optimization of the cyclotide framework to improve cell penetration properties. <i>Frontiers in Pharmacology</i> , 2015, 6, 17.	3.5	31
49	The Toxicity of Prion Protein Fragment PrP(106-126) is Not Mediated by Membrane Permeabilization as Shown by a M112W Substitution. <i>Biochemistry</i> , 2009, 48, 4198-4208.	2.5	30
50	NMR and protein structure in drug design: application to cyclotides and conotoxins. <i>European Biophysics Journal</i> , 2011, 40, 359-370.	2.2	30
51	Development of cell-penetrating peptide-based drug leads to inhibit MDMX:p53 and MDM2:p53 interactions. <i>Biopolymers</i> , 2016, 106, 853-863.	2.4	29
52	Fast membrane association is a crucial factor in the peptide pep1 translocation mechanism: A kinetic study followed by surface plasmon resonance. <i>Biopolymers</i> , 2010, 94, 314-322.	2.4	28
53	Understanding the Diversity and Distribution of Cyclotides from Plants of Varied Genetic Origin. <i>Journal of Natural Products</i> , 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. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 872-882.	2.6	22

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

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73	Structural and functional characterization of chimeric cyclotides from the MÃ¶bius and trypsin inhibitor subfamilies. <i>Biopolymers</i> , 2017, 108, e22927.	2.4	11
74	Modified horseshoe crab peptides target and kill bacteria inside host cells. <i>Cellular and Molecular Life Sciences</i> , 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. <i>Molecules</i> , 2019, 24, 3739.	3.8	7
76	Synthesis, Structure, and Activity of the Antifungal Plant Defensin <i>Pv</i>D<sub>1</sub>. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 9391-9402.	6.4	7
77	Safer In Vitro Drug Screening Models for Melioidosis Therapy Development. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, 103, 1846-1851.	1.4	5
78	Antimicrobial peptides provide wider coverage for targeting drugâ€™resistant bacterial pathogens. <i>Peptide Science</i> , 2022, 114, e24246.	1.8	4
79	Investigations into the membrane activity of arenicin antimicrobial peptide AA139. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022, 1866, 130156.	2.4	4
80	Is PrP(106-126) Fragment Involved in the Membrane Activity of the Prion Protein?. <i>Current Protein and Peptide Science</i> , 2010, 11, 326-333.	1.4	3
81	Antimicrobial Peptide Mimetics Based on a Diphenylacetylene Scaffold: Synthesis, Conformational Analysis, and Activity. <i>ChemMedChem</i> , 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. <i>Biophysical Journal</i> , 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. <i>Biophysical Journal</i> , 2016, 110, 29a.	0.5	0
84	Editorial Overview. <i>Current Opinion in Chemical Biology</i> , 2017, 38, iv-vi.	6.1	0
85	Identification of survival-promoting OSIP108 peptide variants and their internalization in human cells. <i>Mechanisms of Ageing and Development</i> , 2017, 161, 247-254.	4.6	0