Luca D D'andrea

List of Publications by Year
in descending order

70 papers	2,662 citations	279701 23 h-index	189801 50 g-index
73 all docs	73 docs citations	73 times ranked	3986 citing authors

#	Article	IF	Citations
1	TPR proteins: the versatile helix. Trends in Biochemical Sciences, 2003, 28, 655-662.	3.7	994
2	Targeting angiogenesis: Structural characterization and biological properties of a de novo engineered VEGF mimicking peptide. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14215-14220.	3.3	242
3	In vivo properties of the proangiogenic peptide QK. Journal of Translational Medicine, 2009, 7, 41.	1.8	101
4	Circular Dichroism studies on the interactions of antimicrobial peptides with bacterial cells. Scientific Reports, 2014, 4, 4293.	1.6	96
5	Functional and pharmacological characterization of a VEGF mimetic peptide on reparative angiogenesis. Biochemical Pharmacology, 2012, 84, 303-311.	2.0	88
6	Peptide-based Molecules in Angiogenesis. Chemical Biology and Drug Design, 2006, 67, 115-126.	1.5	84
7	Assignment of the Binding Site for Haptoglobin on Apolipoprotein A-I. Journal of Biological Chemistry, 2005, 280, 1193-1198.	1.6	75
8	Design, structural and functional characterization of a Temporin-1b analog active against Gram-negative bacteria. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3767-3775.	1.1	50
9	Bioinorganic aspects of angiogenesis. Dalton Transactions, 2010, 39, 7625.	1.6	45
10	Structural Determinants of the Unusual Helix Stability of a De Novo Engineered Vascular Endothelial Growth Factor (VEGF) Mimicking Peptide. Chemistry - A European Journal, 2008, 14, 4164-4166.	1.7	42
11	Characterization of a Designed Vascular Endothelial Growth Factor Receptor Antagonist Helical Peptide with Antiangiogenic Activity in Vivo. Journal of Medicinal Chemistry, 2011, 54, 1391-1400.	2.9	40
12	Peptides Targeting Angiogenesis Related Growth Factor Receptors. Current Pharmaceutical Design, 2009, 15, 2414-2429.	0.9	39
13	Structural Basis of a Temporin 1b Analogue Antimicrobial Activity against Gram Negative Bacteria Determined by CD and NMR Techniques in Cellular Environment. ACS Chemical Biology, 2015, 10, 965-969.	1.6	37
14	A Novel Type of Zinc Finger DNA Binding Domain in theAgrobacteriumtumefaciensTranscriptional Regulator Rosâ€. Biochemistry, 2006, 45, 10394-10405.	1.2	34
15	A vascular endothelial growth factor mimetic accelerates gastric ulcer healing in an iNOS-dependent manner. American Journal of Physiology - Renal Physiology, 2008, 295, G374-G381.	1.6	33
16	Miniaturized hemoproteins. Biopolymers, 1998, 47, 5-22.	1.2	32
17	Î²-Hairpin Peptide That Targets Vascular Endothelial Growth Factor (VEGF) Receptors. Journal of Biological Chemistry, 2011, 286, 41680-41691.	1.6	32
18	Biochemical and Structural Analysis of the Binding Determinants of a Vascular Endothelial Growth Factor Receptor Peptidic Antagonist. Journal of Medicinal Chemistry, 2010, 53, 4428-4440.	2.9	31

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19	Structural Analysis of a Helical Peptide Unfolding Pathway. Chemistry - A European Journal, 2010, 16, 5400-5407.	1.7	27
20	Development of an efficient and low-cost protocol for the manual PNA synthesis by Fmoc chemistry. Tetrahedron Letters, 2010, 51, 3716-3718.	0.7	27
21	Pro-angiogenic peptides in biomedicine. Archives of Biochemistry and Biophysics, 2018, 660, 72-86.	1.4	27
22	Functional Binding Surface of a Î²â€Hairpin VEGF Receptor Targeting Peptide Determined by NMR Spectroscopy in Living Cells. Chemistry - A European Journal, 2015, 21, 91-95.	1.7	25
23	Neuroprotective Effect of VEGF-Mimetic Peptide QK in Experimental Brain Ischemia Induced in Rat by Middle Cerebral Artery Occlusion. ACS Chemical Neuroscience, 2015, 6, 1517-1525.	1.7	24
24	VEGFR Recognition Interface of a Proangiogenic VEGFâ€Mimetic Peptide Determined In Vitro and in the Presence of Endothelial Cells by NMR Spectroscopy. Chemistry - A European Journal, 2018, 24, 11461-11466.	1.7	24
25	VEGFR1_{D2} in drug discovery: Expression and molecular characterization. Biopolymers, 2010, 94, 800-809.	1.2	22
26	Therapeutic aspects of the Axl/Gas6 molecular system. Drug Discovery Today, 2020, 25, 2130-2148.	3.2	22
27	Site-specific protein double labeling by expressed protein ligation: applications to repeat proteins. Organic and Biomolecular Chemistry, 2012, 10, 273-280.	1.5	21
28	Î²-Hairpin stabilization through an interstrand triazole bridge. Chemical Communications, 2012, 48, 762-764.	2.2	21
29	Design, structural and biological characterization of a VEGF inhibitor Î²-hairpin-constrained peptide. European Journal of Medicinal Chemistry, 2014, 73, 210-216.	2.6	21
30	Miniaturizing VEGF: Peptides mimicking the discontinuous VEGF receptor-binding site modulate the angiogenic response. Scientific Reports, 2016, 6, 31295.	1.6	21
31	Unveiling a VEGF-mimetic peptide sequence in the IQGAP1 protein. Molecular BioSystems, 2017, 13, 1619-1629.	2.9	21
32	Exploiting Protein N-Terminus for Site-Specific Bioconjugation. Molecules, 2021, 26, 3521.	1.7	19
33	C-terminal truncation of Vascular Endothelial Growth Factor mimetic helical peptide preserves structural and receptor binding properties. Biochemical and Biophysical Research Communications, 2012, 424, 290-294.	1.0	16
34	Structural investigation of the VEGF receptor interaction with a helical antagonist peptide. Journal of Peptide Science, 2013, 19, 214-219.	0.8	16
35	Probing the Molecular Origin of Native-State Flexibility in Repeat Proteins. Journal of the American Chemical Society, 2015, 137, 10367-10373.	6.6	16
36	Semi-Synthesis of Labeled Proteins for Spectroscopic Applications. Molecules, 2013, 18, 440-465.	1.7	15

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37	In vivo and in vitro characterization of CCK8 bearing a histidineâ€based chelator labeled with ^{99m}Tcâ€tricarbonyl. Biopolymers, 2008, 90, 707-712.	1.2	14
38	1,2,3â€Triazole Bridge as Conformational Constrain in Î²â€Hairpin Peptides: Analysis of Hydrogenâ€Bonded Positions. Chemistry - A European Journal, 2016, 22, 5534-5537.	1.7	13
39	Total chemical synthesis by native chemical ligation of the all-D immunoglobulin-like domain 2 of Axl. Tetrahedron, 2019, 75, 894-905.	1.0	12
40	Semisynthesis of Dimeric Proteins by Expressed Protein Ligation. Organic Letters, 2008, 10, 1955-1958.	2.4	11
41	A novel super-potent neurokinin A receptor antagonist containing dehydroalanine. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 1153-1156.	1.0	10
42	Long range Trp-Trp interaction initiates the folding pathway of a pro-angiogenic Î²-hairpin peptide. Scientific Reports, 2015, 5, 16651.	1.6	10
43	PNA zipper as a dimerization tool: Development of a bZip mimic. Biopolymers, 2010, 93, 434-441.	1.2	9
44	Conformational stabilization of a Î²-hairpin through a triazoleâ€“tryptophan interaction. Organic and Biomolecular Chemistry, 2018, 16, 787-795.	1.5	8
45	Structural studies of the binding of an antagonistic cyclic peptide to the VEGFR1 domain 2. European Journal of Medicinal Chemistry, 2019, 169, 65-75.	2.6	8
46	An innovative approach for the synthesis of dual modality peptide imaging probes based on the native chemical ligation approach. Chemical Communications, 2020, 56, 3500-3503.	2.2	8
47	Determination of the secondary structure of peptides in the presence of Gram positive bacterium S. epidermidis cells. RSC Advances, 2016, 6, 51407-51410.	1.7	7
48	Binding studies of antimicrobial peptides to Escherichia coli cells. Biochemical and Biophysical Research Communications, 2016, 478, 149-153.	1.0	7
49	Labeling of VEGFR1D2 through oxime ligation. Bioorganic Chemistry, 2019, 91, 103160.	2.0	7
50	Apolipoprotein A-I (ApoA-I) Mimetic Peptide P2a by Restoring Cholesterol Esterification Unmasks ApoA-I Anti-Inflammatory Endogenous Activity In Vivo. Journal of Pharmacology and Experimental Therapeutics, 2012, 340, 716-722.	1.3	5
51	facâ€[Re(H₂O)₃(CO)₃]⁺ Complexed with Histidine and Imidazole in Aqueous Solution: Speciation, Affinity and Binding Features. ChemistrySelect, 2016, 1, 3739-3744.	0.7	5
52	Effect of Acylation on the Antimicrobial Activity of Temporinâ€...B Analogues. ChemMedChem, 2018, 13, 1549-1554.	1.6	5
53	Relevance of the amino acid conversions L144R (Zaragoza) and L159P (Zavalla) in the apolipoprotein A-I binding site for haptoglobin. Biological Chemistry, 2008, 389, 1421-1426.	1.2	4
54	Analysis of the haptoglobin binding region on the apolipoprotein Aâ€Iâ€derived P2a peptide. Journal of Peptide Science, 2013, 19, 220-226.	0.8	4

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55	Detection of oligonucleotides by PNA-peptide conjugates recognizing the biarsenical fluorescein complex FlAsH-EDT2. Biochemical and Biophysical Research Communications, 2017, 493, 126-131.	1.0	4
56	Short PlGF â€derived peptides bind VEGFR â€1 and VEGFR â€2 in vitro and on the surface of endothelial cells. Journal of Peptide Science, 2019, 25, e3146.	0.8	4
57	Metabolic and conformational stabilization of a VEGF-mimetic beta-hairpin peptide by click-chemistry. European Journal of Medicinal Chemistry, 2021, 222, 113575.	2.6	4
58	Structure and biological activity of a conformational constrained apolipoprotein A-I-derived helical peptide targeting the protein haptoglobin. RSC Advances, 2014, 4, 51353-51361.	1.7	3
59	VEGF mimic peptides: Potential applications in central nervous system therapeutics. European Journal of Molecular and Clinical Medicine, 2017, 3, 233.	0.5	3
60	Human Recombinant VEGFR2D4 Biochemical Characterization to Investigate Novel Anti-VEGFR2D4 Antibodies for Allosteric Targeting of VEGFR2. Molecular Biotechnology, 2019, 61, 513-520.	1.3	3
61	Probing the helical stability in a VEGF-mimetic peptide. Bioorganic Chemistry, 2021, 116, 105379.	2.0	3
62	Application of Biophysical Techniques to Investigate the Interaction of Antimicrobial Peptides With Bacterial Cells. Frontiers in Medical Technology, 2020, 2, 606079.	1.3	3
63	Screening of Î²-hairpin peptide-engrafted 1,2,3-triazoles to identify APEH enzyme inhibitors. RSC Advances, 2015, 5, 9965-9972.	1.7	2
64	Biochemical and Conformational Characterization of Recombinant VEGFR2 Domain 7. Molecular Biotechnology, 2019, 61, 860-872.	1.3	2
65	New Synthetic Route to Î³-Mercaptomethyl PNA Monomers. Synthetic Communications, 2008, 38, 2499-2506.	1.1	1
66	Exploring the dark matter of the human genome using oligonucleotide-based molecules. Future Medicinal Chemistry, 2015, 7, 1627-1630.	1.1	1
67	Studying the Interaction of Magainin 2 and Cecropin A with E. coli Bacterial Cells Using Circular Dichroism. Methods in Molecular Biology, 2017, 1548, 247-253.	0.4	1
68	Coordination of a bis-histidine-oligopeptide to Re(<scp>i</scp>) and Ga(<scp>iii</scp>) in aqueous solution. Dalton Transactions, 2019, 48, 15184-15191.	1.6	1
69	Solution conformational preferences of a peptidic analogue of a natural macrolide. , 1997, 42, 349-361.		0
70	Structural characterization of the thermal unfolding pathway of human VEGFR1 D2 domain. FEBS Journal, 2022, 289, 1591-1602.	2.2	0