

# Luca D D'andrea

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3635501/publications.pdf>

Version: 2024-02-01

70  
papers

2,662  
citations

279487

23  
h-index

189595

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 the Agrobacterium tumefaciens Transcriptional Regulator RosA. 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 | $\beta$ -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        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Structural Analysis of a Helical Peptide Unfolding Pathway. <i>Chemistry - A European Journal</i> , 2010, 16, 5400-5407.   | 1.7 | 27        |
| 20 | Development of an efficient and low-cost protocol for the manual PNA synthesis by Fmoc chemistry. <i>Tetrahedron Letters</i> , 2010, 51, 3716-3718.  | 0.7 | 27        |
| 21 | Pro-angiogenic peptides in biomedicine. <i>Archives of Biochemistry and Biophysics</i> , 2018, 660, 72-86.   | 1.4 | 27        |
| 22 | Functional Binding Surface of a $\beta$ -Hairpin VEGF Receptor Targeting Peptide Determined by NMR Spectroscopy in Living Cells. <i>Chemistry - A European Journal</i> , 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. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1517-1525.                                | 1.7 | 24        |
| 24 | VEGFR Recognition Interface of a Proangiogenic VEGF-Mimetic Peptide Determined In Vitro and in the Presence of Endothelial Cells by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 11461-11466.       | 1.7 | 24        |
| 25 | VEGFR1 <sub>D2</sub> in drug discovery: Expression and molecular characterization. <i>Biopolymers</i> , 2010, 94, 800-809.   | 1.2 | 22        |
| 26 | Therapeutic aspects of the Axl/Gas6 molecular system. <i>Drug Discovery Today</i> , 2020, 25, 2130-2148.   | 3.2 | 22        |
| 27 | Site-specific protein double labeling by expressed protein ligation: applications to repeat proteins. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 273-280.   | 1.5 | 21        |
| 28 | $\beta$ -Hairpin stabilization through an interstrand triazole bridge. <i>Chemical Communications</i> , 2012, 48, 762-764.   | 2.2 | 21        |
| 29 | Design, structural and biological characterization of a VEGF inhibitor $\beta$ -hairpin-constrained peptide. <i>European Journal of Medicinal Chemistry</i> , 2014, 73, 210-216.   | 2.6 | 21        |
| 30 | Miniaturizing VEGF: Peptides mimicking the discontinuous VEGF receptor-binding site modulate the angiogenic response. <i>Scientific Reports</i> , 2016, 6, 31295.  | 1.6 | 21        |
| 31 | Unveiling a VEGF-mimetic peptide sequence in the IQGAP1 protein. <i>Molecular BioSystems</i> , 2017, 13, 1619-1629.  | 2.9 | 21        |
| 32 | Exploiting Protein N-Terminus for Site-Specific Bioconjugation. <i>Molecules</i> , 2021, 26, 3521.   | 1.7 | 19        |
| 33 | C-terminal truncation of Vascular Endothelial Growth Factor mimetic helical peptide preserves structural and receptor binding properties. <i>Biochemical and Biophysical Research Communications</i> , 2012, 424, 290-294. | 1.0 | 16        |
| 34 | Structural investigation of the VEGF receptor interaction with a helical antagonist peptide. <i>Journal of Peptide Science</i> , 2013, 19, 214-219.  | 0.8 | 16        |
| 35 | Probing the Molecular Origin of Native-State Flexibility in Repeat Proteins. <i>Journal of the American Chemical Society</i> , 2015, 137, 10367-10373.   | 6.6 | 16        |
| 36 | Semi-Synthesis of Labeled Proteins for Spectroscopic Applications. <i>Molecules</i> , 2013, 18, 440-465.   | 1.7 | 15        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | In vivo and in vitro characterization of CCK8 bearing a histidine-based chelator labeled with $^{99m}\text{Tc}$ -tricarbonyl. <i>Biopolymers</i> , 2008, 90, 707-712.  | 1.2 | 14        |
| 38 | 1,2,3-Triazole Bridge as Conformational Constraint in $\beta$ -Hairpin Peptides: Analysis of Hydrogen-Bonded Positions. <i>Chemistry - A European Journal</i> , 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. <i>Tetrahedron</i> , 2019, 75, 894-905.   | 1.0 | 12        |
| 40 | Semisynthesis of Dimeric Proteins by Expressed Protein Ligation. <i>Organic Letters</i> , 2008, 10, 1955-1958.   | 2.4 | 11        |
| 41 | A novel super-potent neurokinin A receptor antagonist containing dehydroalanine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 1153-1156.   | 1.0 | 10        |
| 42 | Long range Trp-Trp interaction initiates the folding pathway of a pro-angiogenic $\beta$ -hairpin peptide. <i>Scientific Reports</i> , 2015, 5, 16651.   | 1.6 | 10        |
| 43 | PNA zipper as a dimerization tool: Development of a bZip mimic. <i>Biopolymers</i> , 2010, 93, 434-441.  | 1.2 | 9         |
| 44 | Conformational stabilization of a $\beta$ -hairpin through a triazole-tryptophan interaction. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 787-795.   | 1.5 | 8         |
| 45 | Structural studies of the binding of an antagonistic cyclic peptide to the VEGFR1 domain 2. <i>European Journal of Medicinal Chemistry</i> , 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. <i>Chemical Communications</i> , 2020, 56, 3500-3503.   | 2.2 | 8         |
| 47 | Determination of the secondary structure of peptides in the presence of Gram positive bacterium <i>S. epidermidis</i> cells. <i>RSC Advances</i> , 2016, 6, 51407-51410.   | 1.7 | 7         |
| 48 | Binding studies of antimicrobial peptides to <i>Escherichia coli</i> cells. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 149-153.   | 1.0 | 7         |
| 49 | Labeling of VEGFR1D2 through oxime ligation. <i>Bioorganic Chemistry</i> , 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. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 340, 716-722. | 1.3 | 5         |
| 51 | $[\text{Re}(\text{H}_2\text{O})_3(\text{CO})_3]^+$ Complexed with Histidine and Imidazole in Aqueous Solution: Speciation, Affinity and Binding Features. <i>ChemistrySelect</i> , 2016, 1, 3739-3744.                                   | 0.7 | 5         |
| 52 | Effect of Acylation on the Antimicrobial Activity of Temporin-B Analogues. <i>ChemMedChem</i> , 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. <i>Biological Chemistry</i> , 2008, 389, 1421-1426.   | 1.2 | 4         |
| 54 | Analysis of the haptoglobin binding region on the apolipoprotein A-I derived P2a peptide. <i>Journal of Peptide Science</i> , 2013, 19, 220-226.   | 0.8 | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Detection of oligonucleotides by PNA-peptide conjugates recognizing the biarsenical fluorescein complex FAsH-EDT2. <i>Biochemical and Biophysical Research Communications</i> , 2017, 493, 126-131.          | 1.0 | 4         |
| 56 | Short PlGF $\alpha$ -derived peptides bind VEGFR $\alpha$ 1 and VEGFR $\alpha$ 2 in vitro and on the surface of endothelial cells. <i>Journal of Peptide Science</i> , 2019, 25, e3146.                      | 0.8 | 4         |
| 57 | Metabolic and conformational stabilization of a VEGF-mimetic beta-hairpin peptide by click-chemistry. <i>European Journal of Medicinal Chemistry</i> , 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. <i>RSC Advances</i> , 2014, 4, 51353-51361.                  | 1.7 | 3         |
| 59 | VEGF mimic peptides: Potential applications in central nervous system therapeutics. <i>European Journal of Molecular and Clinical Medicine</i> , 2017, 3, 233.   | 0.5 | 3         |
| 60 | Human Recombinant VEGFR2D4 Biochemical Characterization to Investigate Novel Anti-VEGFR2D4 Antibodies for Allosteric Targeting of VEGFR2. <i>Molecular Biotechnology</i> , 2019, 61, 513-520.                | 1.3 | 3         |
| 61 | Probing the helical stability in a VEGF-mimetic peptide. <i>Bioorganic Chemistry</i> , 2021, 116, 105379.  | 2.0 | 3         |
| 62 | Application of Biophysical Techniques to Investigate the Interaction of Antimicrobial Peptides With Bacterial Cells. <i>Frontiers in Medical Technology</i> , 2020, 2, 606079.                               | 1.3 | 3         |
| 63 | Screening of $\beta$ -hairpin peptide-grafted 1,2,3-triazoles to identify APEH enzyme inhibitors. <i>RSC Advances</i> , 2015, 5, 9965-9972.  | 1.7 | 2         |
| 64 | Biochemical and Conformational Characterization of Recombinant VEGFR2 Domain 7. <i>Molecular Biotechnology</i> , 2019, 61, 860-872.  | 1.3 | 2         |
| 65 | New Synthetic Route to $\beta$ -Mercaptomethyl PNA Monomers. <i>Synthetic Communications</i> , 2008, 38, 2499-2506.  | 1.1 | 1         |
| 66 | Exploring the dark matter of the human genome using oligonucleotide-based molecules. <i>Future Medicinal Chemistry</i> , 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. <i>Methods in Molecular Biology</i> , 2017, 1548, 247-253.                                      | 0.4 | 1         |
| 68 | Coordination of a bis-histidine-oligopeptide to Re( $\text{H}_2\text{O}$ ) <sub>5</sub> and Ga( $\text{H}_2\text{O}$ ) <sub>3</sub> in aqueous solution. <i>Dalton Transactions</i> , 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. <i>FEBS Journal</i> , 2022, 289, 1591-1602.  | 2.2 | 0         |