

# Gianfranco Bocchinfuso

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5055951/publications.pdf>

Version: 2024-02-01

76  
papers

3,114  
citations

159585

30  
h-index

161849

54  
g-index

78  
all docs

78  
docs citations

78  
times ranked

4922  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diversity and Functional Consequences of Germline and Somatic PTPN11 Mutations in Human Disease. American Journal of Human Genetics, 2006, 78, 279-290.	6.2	352
2	Germline Missense Mutations Affecting KRAS Isoform B Are Associated with a Severe Noonan Syndrome Phenotype. American Journal of Human Genetics, 2006, 79, 129-135.	6.2	205
3	Mutations in KCNH1 and ATP6V1B2 cause Zimmermann-Laband syndrome. Nature Genetics, 2015, 47, 661-667.	21.4	177
4	Activating mutations in RRAS underlie a phenotype within the RASopathy spectrum and contribute to leukaemogenesis. Human Molecular Genetics, 2014, 23, 4315-4327.	2.9	114
5	Mutations Impairing GSK3-Mediated MAF Phosphorylation Cause Cataract, Deafness, Intellectual Disability, Seizures, and a Down Syndrome-like Facies. American Journal of Human Genetics, 2015, 96, 816-825.	6.2	102
6	A Theoretical Model for the Prediction of Sequence-Dependent Nucleosome Thermodynamic Stability. Biophysical Journal, 2000, 79, 601-613.	0.5	99
7	Scleroglucan: A Versatile Polysaccharide for Modified Drug Delivery. Molecules, 2005, 10, 6-33.	3.8	99
8	Dual role of DNA intrinsic curvature and flexibility in determining nucleosome stability 1 Edited by T. Richmond. Journal of Molecular Biology, 1999, 286, 1293-1301.	4.2	86
9	Different mechanisms of action of antimicrobial peptides: insights from fluorescence spectroscopy experiments and molecular dynamics simulations. Journal of Peptide Science, 2009, 15, 550-558.	1.4	85
10	Diverse driving forces underlie the invariant occurrence of the T42A, E139D, I282V and T468M SHP2 amino acid substitutions causing Noonan and LEOPARD syndromes. Human Molecular Genetics, 2008, 17, 2018-2029.	2.9	79
11	Mutations in ZBTB20 cause Primrose syndrome. Nature Genetics, 2014, 46, 815-817.	21.4	79
12	A Restricted Spectrum of Mutations in the SMAD4 Tumor-Suppressor Gene Underlies Myhre Syndrome. American Journal of Human Genetics, 2012, 90, 161-169.	6.2	77
13	Mutations in KCNK4 that Affect Gating Cause a Recognizable Neurodevelopmental Syndrome. American Journal of Human Genetics, 2018, 103, 621-630.	6.2	73
14	Molecular dynamics investigations of the polysaccharide scleroglucan: first study on the triple helix structure. Carbohydrate Research, 2005, 340, 2154-2162.	2.3	72
15	Membrane perturbation by the antimicrobial peptide PMAP-23: A fluorescence and molecular dynamics study. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1523-1533.	2.6	70
16	Carnitine palmitoyl transferase-1A (CPT1A): a new tumor specific target in human breast cancer. Oncotarget, 2016, 7, 19982-19996.	1.8	69
17	Activating Mutations Affecting the Dbl Homology Domain of SOS2 Cause Noonan Syndrome. Human Mutation, 2015, 36, 1080-1087.	2.5	67
18	Fluorescence spectroscopy and molecular dynamics simulations in studies on the mechanism of membrane destabilization by antimicrobial peptides. Cellular and Molecular Life Sciences, 2011, 68, 2281-2301.	5.4	57

#	ARTICLE	IF	CITATIONS
19	Membrane thickness and the mechanism of action of the short peptaibol trichogin GA IV. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1013-1024.	2.6	56
20	A new scleroglucan/borax hydrogel: swelling and drug release studies. <i>International Journal of Pharmaceutics</i> , 2005, 289, 97-107.	5.2	54
21	Determination of total and polycyclic aromatic hydrocarbons in aviation jet fuel. <i>Journal of Chromatography A</i> , 2003, 985, 197-203.	3.7	50
22	A new polysaccharidic gel matrix for drug delivery: preparation and mechanical properties. <i>Journal of Controlled Release</i> , 2005, 102, 643-656.	9.9	50
23	Guar Gum and Scleroglucan Interactions with Borax: Experimental and Theoretical Studies of an Unexpected Similarity. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13059-13068.	2.6	50
24	The importance of being kinked: role of Pro residues in the selectivity of the helical antimicrobial peptide P5. <i>Journal of Peptide Science</i> , 2013, 19, 758-769.	1.4	49
25	Enhanced MAPK1 Function Causes a Neurodevelopmental Disorder within the RASopathy Clinical Spectrum. <i>American Journal of Human Genetics</i> , 2020, 107, 499-513.	6.2	48
26	Enhanced EGFR Targeting Activity of Plasmonic Nanostructures with Engineered GE11 Peptide. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700596.	7.6	44
27	Molecular dynamics methods to predict peptide locations in membranes: LAH4 as a stringent test case. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 581-592.	2.6	40
28	Structural, Functional, and Clinical Characterization of a Novel PTPN11 Mutation Cluster Underlying Noonan Syndrome. <i>Human Mutation</i> , 2017, 38, 451-459.	2.5	39
29	Counteracting Effects Operating on Src Homology 2 Domain-containing Protein-tyrosine Phosphatase 2 (SHP2) Function Drive Selection of the Recurrent Y62D and Y63C Substitutions in Noonan Syndrome*. <i>Journal of Biological Chemistry</i> , 2012, 287, 27066-27077.	3.4	35
30	Gold Nanoparticle Aggregates Functionalized with Cyclic RGD Peptides for Targeting and Imaging of Colorectal Cancer Cells. <i>ACS Applied Nano Materials</i> , 2019, 2, 6436-6444.	5.0	35
31	Sound-driven dissipative self-assembly of aromatic biomolecules into functional nanoparticles. <i>Nanoscale Horizons</i> , 2020, 5, 553-563.	8.0	33
32	Fibrils or Globules? Tuning the Morphology of Peptide Aggregates from Helical Building Blocks. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5448-5459.	2.6	32
33	<i>Caenorhabditis elegans</i> provides an efficient drug screening platform for GNAO1-related disorders and highlights the potential role of caffeine in controlling dyskinesia. <i>Human Molecular Genetics</i> , 2022, 31, 929-941.	2.9	32
34	Structural and functional effects of disease-causing amino acid substitutions affecting residues Ala72 and Glu76 of the protein tyrosine phosphatase SHP-2. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 963-974.	2.6	31
35	Peptide Folding Dynamics: A Time-Resolved Study from the Nanosecond to the Microsecond Time Regime. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22834-22841.	2.6	30
36	Dynamics of Formation of a Helix-Turn-Helix Structure in a Membrane-Active Peptide: A Time-Resolved Spectroscopic Study. <i>ChemBioChem</i> , 2006, 7, 43-45.	2.6	29

#	ARTICLE	IF	CITATIONS
37	Novel <i>SMAD4</i> mutation causing Myhre syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2014, 164, 1835-1840.	1.2	29
38	Determination of phenolic antioxidants in aviation jet fuel. <i>Journal of Chromatography A</i> , 2000, 871, 235-241.	3.7	27
39	Selectively targeting bacteria by tuning the molecular design of membrane-active peptidomimetic amphiphiles. <i>Chemical Communications</i> , 2018, 54, 4943-4946.	4.1	27
40	Investigation on a new scleroglucan/borax hydrogel: Structure and drug release. <i>International Journal of Pharmaceutics</i> , 2006, 322, 13-21.	5.2	26
41	A Recurrent Gain-of-Function Mutation in <i>CLCN6</i> , Encoding the <i>Cl<sup>-</sup>/H<sup>+</sup></i> -Exchanger, Causes Early-Onset Neurodegeneration. <i>American Journal of Human Genetics</i> , 2020, 107, 1062-1077.	6.2	23
42	Theoretical and Experimental Study on a Self-Assembling Polysaccharide Forming Nanochannels: Static and Dynamic Effects Induced by a <i>Soft</i> Confinement. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6473-6483.	2.6	20
43	Metal Binding Properties of Fluorescent Analogues of Trichogin GA <sup>IV</sup> : A Conformational Study by Time-Resolved Spectroscopy and Molecular Mechanics Investigations. <i>ChemBioChem</i> , 2009, 10, 91-97.	2.6	18
44	Structural Determinants of Phosphopeptide Binding to the N-Terminal Src Homology 2 Domain of the SHP2 Phosphatase. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3157-3171.	5.4	17
45	Targeting Oncogenic Src Homology 2 Domain-Containing Phosphatase 2 (SHP2) by Inhibiting Its Protein-Protein Interactions. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15973-15990.	6.4	17
46	Aggregation propensity of Aib homo-peptides of different length: an insight from molecular dynamics simulations. <i>Journal of Peptide Science</i> , 2014, 20, 494-507.	1.4	16
47	Co-occurring <i>WARS2</i> and <i>CHRNA6</i> mutations in a child with a severe form of infantile parkinsonism. <i>Parkinsonism and Related Disorders</i> , 2020, 72, 75-79.	2.2	16
48	Statistical Thermodynamic Approach for Evaluating the Writhe Transformations in Circular DNAs. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5704-5714.	2.6	13
49	Peculiar behavior of polysaccharide/borax hydrogel tablets: a dynamomechanical characterization. <i>Colloid and Polymer Science</i> , 2009, 287, 413-423.	2.1	13
50	Versatile hydrogels: an efficient way to clean paper artworks. <i>RSC Advances</i> , 2013, 3, 22896.	3.6	13
51	Rheoreversible hydrogels in paper restoration processes: a versatile tool. <i>Chemistry Central Journal</i> , 2014, 8, 10.	2.6	13
52	Molecular Dynamics Simulations of the Host Defense Peptide Temporin L and Its Q3K Derivative: An Atomic Level View from Aggregation in Water to Bilayer Perturbation. <i>Molecules</i> , 2017, 22, 1235.	3.8	13
53	Receptors for organochlorine pesticides based on calixarenes. <i>Mikrochimica Acta</i> , 2008, 163, 195-202.	5.0	12
54	Identification of protein domains on topological basis. <i>Biopolymers</i> , 2001, 58, 218-229.	2.4	11

#	ARTICLE	IF	CITATIONS
55	Clinical and functional characterization of two novel <i>ZBTB20</i> mutations causing Primrose syndrome. <i>Human Mutation</i> , 2018, 39, 959-964.	2.5	11
56	Rational Design of Antiangiogenic Helical Oligopeptides Targeting the Vascular Endothelial Growth Factor Receptors. <i>Frontiers in Chemistry</i> , 2019, 7, 170.	3.6	10
57	Discriminating between competing models for the allosteric regulation of oncogenic phosphatase SHP2 by characterizing its active state. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 6125-6139.	4.1	10
58	Relative Stability of the Scleroglucan Triple-Helix and Single Strand: an Insight from Computational and Experimental Techniques. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016, 230, 1395-1410.	2.8	9
59	The Influence of pH on the Scleroglucan and Scleroglucan/Borax Systems. <i>Molecules</i> , 2017, 22, 435.	3.8	9
60	3D Structure, Dynamics, and Activity of Synthetic Analog of the Peptaibiotic Trichodecenin I. <i>Chemistry and Biodiversity</i> , 2013, 10, 887-903.	2.1	7
61	Orienting proteins by nanostructured surfaces: evidence of a curvature-driven geometrical resonance. <i>Nanoscale</i> , 2018, 10, 7544-7555.	5.6	7
62	New fluorescent benzo[b]thienyl amino acid derivatives based on sulfanylphenyl benzo[b]thiophenes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 170, 181-188.	3.9	6
63	Photophysical Properties of 1,3,5-Tris(2-naphthyl)benzene and Related Less-Arylated Compounds: Experimental and Theoretical Investigations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14887-14895.	2.5	4
64	Toxicological evaluation of gasolines by GC-MS analysis. <i>Chromatographia</i> , 2001, 53, S345-S349.	1.3	3
65	Pathogenic <i>PTPN11</i> variants involving the polyglutamine Gln <sup>255</sup> –Gln <sup>256</sup> –Gln <sup>257</sup> stretch highlight the relevance of helix B in SHP2's functional regulation. <i>Human Mutation</i> , 2020, 41, 1171-1182.	2.5	3
66	Aggregation propensity of therapeutic fibrin-homing pentapeptides: insights from experiments and molecular dynamics simulations. <i>Soft Matter</i> , 2020, 16, 10169-10179.	2.7	3
67	Compound heterozygosity for <i>PTPN11</i> variants in a subject with Noonan syndrome provides insights into the mechanism of <i>SHP2</i> -related disorders. <i>Clinical Genetics</i> , 2021, 99, 457-461.	2.0	2
68	Aggregation properties of a therapeutic peptide for rheumatoid arthritis: A spectroscopic and molecular dynamics study. <i>ChemPhysMater</i> , 2021, 1, 62-62.	2.8	2
69	The Role of Thermodynamics in the Activity and Selectivity of Antimicrobial Peptides. <i>Biophysical Journal</i> , 2016, 110, 75a-76a.	0.5	1
70	Formulation matters! A spectroscopic and molecular dynamics investigation on the peptide CIGB552 as itself and in its therapeutical formulation. <i>Journal of Peptide Science</i> , 2022, 28, e3356.	1.4	1
71	Antimicrobial Peptides Chelating Lanthanide Ions: the Case of Trichogin GA IV Analogues and Terbium(III). <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 43-44.	1.6	1
72	Intramolecular Triplet Quenching by Nitroxide Radicals as a Tool for Determining Peptide Secondary Structure in Solution. , 2006, , 603-604.		0

#	ARTICLE	IF	CITATIONS
73	A Time-Resolved Spectroscopic Study on Peptide Folding. , 2006, , 605-606.		0
74	Peptide Foldamers: From Spectroscopic Studies to Applications. Reviews in Fluorescence, 2010, , 405-424.	0.5	0
75	Membrane Perturbing Effects of Antimicrobial Peptides: A Systematic Spectroscopic Analysis. Biophysical Journal, 2013, 104, 600a-601a.	0.5	0
76	Monitoring Peptide Folding by Time-Resolved Spectroscopies: the Effect of a Single Gly to Aib Substitution. Advances in Experimental Medicine and Biology, 2009, 611, 47-48.	1.6	0