

Slawomir Filipek

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133
papers

6,207
citations

40
h-index

76
g-index

140
ext. papers

6,844
ext. citations

6.2
avg, IF

5.67
L-index

#	Paper	IF	Citations
133	Atomic-force microscopy: Rhodopsin dimers in native disc membranes. <i>Nature</i> , 2003 , 421, 127-8	50.4	679
132	Organization of the G protein-coupled receptors rhodopsin and opsin in native membranes. <i>Journal of Biological Chemistry</i> , 2003 , 278, 21655-21662	5.4	490
131	Sequence analyses of G-protein-coupled receptors: similarities to rhodopsin. <i>Biochemistry</i> , 2003 , 42, 2759-67	5.7	320
130	Role of the conserved NPxxY(x)5,6F motif in the rhodopsin ground state and during activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2290-5	11.5	289
129	Oligomerization of G protein-coupled receptors: past, present, and future. <i>Biochemistry</i> , 2004 , 43, 15643-56	3.56	202
128	G protein-coupled receptor rhodopsin: a prospectus. <i>Annual Review of Physiology</i> , 2003 , 65, 851-79	23.1	202
127	The G protein-coupled receptor rhodopsin in the native membrane. <i>FEBS Letters</i> , 2004 , 564, 281-288	3.8	179
126	Pharmacological chaperone-mediated in vivo folding and stabilization of the P23H-opsin mutant associated with autosomal dominant retinitis pigmentosa. <i>Journal of Biological Chemistry</i> , 2003 , 278, 14442-14450	5.4	158
125	Activation of G-protein-coupled receptors correlates with the formation of a continuous internal water pathway. <i>Nature Communications</i> , 2014 , 5, 4733	17.4	157
124	A concept for G protein activation by G protein-coupled receptor dimers: the transducin/rhodopsin interface. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 628-38	4.2	150
123	Calcium-binding proteins: intracellular sensors from the calmodulin superfamily. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 290, 615-23	3.4	141
122	Graphene-protein field effect biosensors: glucose sensing. <i>Materials Today</i> , 2015 , 18, 513-522	21.8	110
121	Functional characterization of rhodopsin monomers and dimers in detergents. <i>Journal of Biological Chemistry</i> , 2004 , 279, 54663-75	5.4	108
120	Rhodopsin signaling and organization in heterozygote rhodopsin knockout mice. <i>Journal of Biological Chemistry</i> , 2004 , 279, 48189-96	5.4	106
119	PyMOL and Inkscape Bridge the Data and the Data Visualization. <i>Structure</i> , 2016 , 24, 2041-2042	5.2	100
118	The crystallographic model of rhodopsin and its use in studies of other G protein-coupled receptors. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2003 , 32, 375-97		99
117	Ligand channeling within a G-protein-coupled receptor. The entry and exit of retinals in native opsin. <i>Journal of Biological Chemistry</i> , 2003 , 278, 24896-24903	5.4	98

116	The role of water and sodium ions in the activation of the β opioid receptor. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10112-5	16.4	86
115	Diversity of guanylate cyclase-activating proteins (GCAPs) in teleost fish: characterization of three novel GCAPs (GCAP4, GCAP5, GCAP7) from zebrafish (<i>Danio rerio</i>) and prediction of eight GCAPs (GCAP1-8) in pufferfish (<i>Fugu rubripes</i>). <i>Journal of Molecular Evolution</i> , 2004 , 59, 204-217	3.1	82
114	Structural investigation of the C-terminal catalytic fragment of presenilin 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9644-9	11.5	68
113	Evaluation of the role of the retinal G protein-coupled receptor (RGR) in the vertebrate retina in vivo. <i>Journal of Neurochemistry</i> , 2003 , 85, 944-56	6	67
112	The supramolecular structure of the GPCR rhodopsin in solution and native disc membranes. <i>Molecular Membrane Biology</i> , 2004 , 21, 435-46	3.4	67
111	Detecting molecular interactions that stabilize native bovine rhodopsin. <i>Journal of Molecular Biology</i> , 2006 , 358, 255-69	6.5	61
110	G protein-coupled receptors--recent advances.. <i>Acta Biochimica Polonica</i> , 2012 , 59,	2	58
109	Understanding the development of human bladder cancer by using a whole-organ genomic mapping strategy. <i>Laboratory Investigation</i> , 2008 , 88, 694-721	5.9	55
108	A novel GCAP1 missense mutation (L151F) in a large family with autosomal dominant cone-rod dystrophy (adCORD). <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 1124-32		54
107	Stabilizing effect of Zn ²⁺ in native bovine rhodopsin. <i>Journal of Biological Chemistry</i> , 2007 , 282, 11377-85	5.4	53
106	Role of membrane integrity on G protein-coupled receptors: Rhodopsin stability and function. <i>Progress in Lipid Research</i> , 2011 , 50, 267-77	14.3	52
105	Amyloid β peptide 25-35 self-assembly and its inhibition: a model undecapeptide system to gain atomistic and secondary structure details of the Alzheimer's disease process and treatment. <i>ACS Chemical Neuroscience</i> , 2012 , 3, 952-62	5.7	50
104	Lyotropic Cubic Phases for Drug Delivery: Diffusion and Sustained Release from the Mesophase Evaluated by Electrochemical Methods. <i>Langmuir</i> , 2015 , 31, 12753-61	4	48
103	A naturally occurring mutation of the opsin gene (T4R) in dogs affects glycosylation and stability of the G protein-coupled receptor. <i>Journal of Biological Chemistry</i> , 2004 , 279, 53828-39	5.4	48
102	W246(6.48) opens a gate for a continuous intrinsic water pathway during activation of the adenosine A2A receptor. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 556-9	16.4	46
101	Synthesis and biological evaluation of novel oxadiazole derivatives: a new class of thymidine phosphorylase inhibitors as potential anti-tumor agents. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 1008-15	3.4	45
100	Towards improved quality of GPCR models by usage of multiple templates and profile-profile comparison. <i>PLoS ONE</i> , 2013 , 8, e56742	3.7	45
99	Study on the feasibility of bacteriorhodopsin as bio-photosensitizer in excitonic solar cell: a first report. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1679-87	1.3	45

98	Ubiquitous amyloids. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 166, 1626-43	3.2	44
97	Molecular switches in GPCRs. <i>Current Opinion in Structural Biology</i> , 2019 , 55, 114-120	8.1	42
96	Two novel presenilin 1 gene mutations connected with frontotemporal dementia-like clinical phenotype: genetic and bioinformatic assessment. <i>Experimental Neurology</i> , 2006 , 200, 82-8	5.7	42
95	Ca ²⁺ -dependent regulation of phototransduction. <i>Photochemistry and Photobiology</i> , 2008 , 84, 903-10	3.6	41
94	The Molecular Mechanism of P2Y1 Receptor Activation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10331-5	16.4	41
93	Forerunner genes contiguous to RB1 contribute to the development of in situ neoplasia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13732-7	11.5	40
92	The mechanism of ligand-induced activation or inhibition of β and β opioid receptors. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7560-3	16.4	39
91	Quaternary structures of opsin in live cells revealed by FRET spectrometry. <i>Biochemical Journal</i> , 2016 , 473, 3819-3836	3.8	38
90	Co-translational association of cell-free expressed membrane proteins with supplied lipid bilayers. <i>Molecular Membrane Biology</i> , 2013 , 30, 75-89	3.4	37
89	Arrestin interaction with rhodopsin: conceptual models. <i>Cell Biochemistry and Biophysics</i> , 2006 , 46, 1-15	3.2	37
88	G protein-coupled receptors--recent advances. <i>Acta Biochimica Polonica</i> , 2012 , 59, 515-29	2	36
87	CacyBP/SIP binds ERK1/2 and affects transcriptional activity of Elk-1. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 380, 54-9	3.4	35
86	Mutations that increase both Hsp90 ATPase activity in vitro and Hsp90 drug resistance in vivo. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010 , 1803, 575-83	4.9	35
85	Mechanism of rhodopsin activation as examined with ring-constrained retinal analogs and the crystal structure of the ground state protein. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26148-53	5.4	35
84	Biochemical and physiological properties of rhodopsin regenerated with 11-cis-6-ring- and 7-ring-retinals. <i>Journal of Biological Chemistry</i> , 2002 , 277, 42315-42324	5.4	35
83	A Gating Mechanism of the Serotonin 5-HT ₃ Receptor. <i>Structure</i> , 2016 , 24, 816-825	5.2	35
82	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. <i>Journal of Biological Chemistry</i> , 2019 , 294, 14215-14230	5.4	34
81	GPCRmd uncovers the dynamics of the 3D-GPCRome. <i>Nature Methods</i> , 2020 , 17, 777-787	21.6	34

80	Exploring a new ligand binding site of G protein-coupled receptors. <i>Chemical Science</i> , 2018 , 9, 6480-6489.	9.4	33
79	Calcium-sensitive regions of GCAP1 as observed by chemical modifications, fluorescence, and EPR spectroscopies. <i>Journal of Biological Chemistry</i> , 2001 , 276, 43361-73	5.4	33
78	The Principles of Ligand Specificity on beta-2-adrenergic receptor. <i>Scientific Reports</i> , 2016 , 6, 34736	4.9	31
77	Modulation of molecular interactions and function by rhodopsin palmitylation. <i>Biochemistry</i> , 2009 , 48, 4294-304	3.2	29
76	Modeling of ligand binding to G protein coupled receptors: cannabinoid CB1, CB2 and adrenergic β 2 AR. <i>Journal of Molecular Modeling</i> , 2011 , 17, 2353-66	2	27
75	Acetylation of lysine 92 improves the chaperone and anti-apoptotic activities of human β -crystallin. <i>Biochemistry</i> , 2013 , 52, 8126-38	3.2	26
74	A novel dominant D109A mutation in a family with myofibrillar myopathy affects β -crystallin structure. <i>BBA Clinical</i> , 2017 , 7, 1-7		25
73	Lipid receptor S1PR β activation scheme concluded from microsecond all-atom molecular dynamics simulations. <i>PLoS Computational Biology</i> , 2013 , 9, e1003261	5	25
72	Arginine interactions with anatase TiO ₂ (100) surface and the perturbation of ⁴⁹ Ti NMR chemical shifts--a DFT investigation: relevance to Renu-Seeram bio solar cell. <i>Journal of Molecular Modeling</i> , 2011 , 17, 1467-72	2	25
71	GPCRM: a homology modeling web service with triple membrane-fitted quality assessment of GPCR models. <i>Nucleic Acids Research</i> , 2018 , 46, W387-W395	20.1	25
70	Study of a structurally similar kappa opioid receptor agonist and antagonist pair by molecular dynamics simulations. <i>Journal of Molecular Modeling</i> , 2010 , 16, 1567-76	2	24
69	Mechanistic Studies on the Stereoselectivity of the Serotonin 5-HT _{1A} Receptor. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8661-5	16.4	23
68	Photocyclic behavior of rhodopsin induced by an atypical isomerization mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2608-E2615	11.5	22
67	The role of water in activation mechanism of human N-formyl peptide receptor 1 (FPR1) based on molecular dynamics simulations. <i>PLoS ONE</i> , 2012 , 7, e47114	3.7	21
66	Autosomal recessive retinitis pigmentosa and E150K mutation in the opsin gene. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22289-22298	5.4	21
65	Molecular dynamics of buspirone analogues interacting with the 5-HT _{1A} and 5-HT _{2A} serotonin receptors. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 881-95	3.4	21
64	Amyloidogenic Properties of Short β -Glutamic Acid Oligomers. <i>Langmuir</i> , 2015 , 31, 10500-7	4	20
63	ERK1/2 is dephosphorylated by a novel phosphatase--CacyBP/SIP. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 404, 179-83	3.4	20

62	Pulling single bacteriorhodopsin out of a membrane: Comparison of simulation and experiment. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 537-44	3.8	20
61	Differentiating between Inactive and Active States of Rhodopsin by Atomic Force Microscopy in Native Membranes. <i>Analytical Chemistry</i> , 2019 , 91, 7226-7235	7.8	19
60	A patient with posterior cortical atrophy possesses a novel mutation in the presenilin 1 gene. <i>PLoS ONE</i> , 2013 , 8, e61074	3.7	19
59	Hydrophobic Ligand Entry and Exit Pathways of the CB1 Cannabinoid Receptor. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 2457-2466	6.1	19
58	Molecular effects of encapsulation of glucose oxidase dimer by graphene. <i>RSC Advances</i> , 2015 , 5, 13570-13578	3.7	18
57	Recognition of the let-7g miRNA precursor by human Lin28B. <i>FEBS Letters</i> , 2012 , 586, 3986-90	3.8	18
56	Understanding the inhibitory effect of highly potent and selective archazolides binding to the vacuolar ATPase. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2265-72	6.1	18
55	Exchanging ligand-binding specificity between a pair of mouse olfactory receptor paralogs reveals odorant recognition principles. <i>Scientific Reports</i> , 2015 , 5, 14948	4.9	17
54	Non-peptide ligand binding to the formyl peptide receptor FPR2--A comparison to peptide ligand binding modes. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 4072-81	3.4	16
53	Cross-linked glucose oxidase clusters for biofuel cell anode catalysts. <i>Biofabrication</i> , 2013 , 5, 035009	10.5	16
52	Multitarget Strategy to Address Alzheimer's Disease: Design, Synthesis, Biological Evaluation, and Computational Studies of Coumarin-Based Derivatives. <i>ChemMedChem</i> , 2016 , 11, 1296-308	3.7	16
51	Application of computational methods for the design of BACE-1 inhibitors: validation of in silico modelling. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 5128-39	6.3	15
50	High-level cell-free production of membrane proteins with nanodiscs. <i>Methods in Molecular Biology</i> , 2014 , 1118, 109-30	1.4	14
49	W2466.48 Opens a Gate for a Continuous Intrinsic Water Pathway during Activation of the Adenosine A2A Receptor. <i>Angewandte Chemie</i> , 2015 , 127, 566-569	3.6	13
48	Computational modeling of the olfactory receptor Olfr73 suggests a molecular basis for low potency of olfactory receptor-activating compounds. <i>Communications Biology</i> , 2019 , 2, 141	6.7	12
47	A Hybrid Approach to Structure and Function Modeling of G Protein-Coupled Receptors. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 630-41	6.1	12
46	Rolle des Wassers und der Natriumionen bei der Aktivierung des μ Opioidrezeptors. <i>Angewandte Chemie</i> , 2013 , 125, 10299-10302	3.6	12
45	Two desmin gene mutations associated with myofibrillar myopathies in Polish families. <i>PLoS ONE</i> , 2014 , 9, e115470	3.7	11

44	Polyamine Conjugation as a Promising Strategy To Target Amyloid Aggregation in the Framework of Alzheimer's Disease. <i>ACS Medicinal Chemistry Letters</i> , 2016 , 7, 1145-1150	4.3	11
43	Computational approach for the assessment of inhibitory potency against beta-amyloid aggregation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 212-216	2.9	10
42	Is rhodopsin dimeric in native retinal rods?. <i>Nature</i> , 2003 , 426, 31-31	50.4	10
41	Organization of rhodopsin molecules in native membranes of rod cells--an old theoretical model compared to new experimental data. <i>Journal of Molecular Modeling</i> , 2005 , 11, 385-91	2	10
40	Enigmatic Histamine Receptor H ₄ for Potential Treatment of Multiple Inflammatory, Autoimmune, and Related Diseases. <i>Life</i> , 2020 , 10,	3	9
39	Protein hot spots at bio-nano interfaces. <i>Materials Today</i> , 2011 , 14, 360-365	21.8	9
38	Protein-carbon nanotube sensors: single platform integrated micro clinical lab for monitoring blood analytes. <i>Methods in Enzymology</i> , 2012 , 509, 165-94	1.7	8
37	Pharmacophore guided discovery of small-molecule interleukin 15 inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017 , 136, 543-547	6.8	7
36	Low-temperature molecular dynamics simulations of horse heart cytochrome c and comparison with inelastic neutron scattering data. <i>European Biophysics Journal</i> , 2013 , 42, 291-300	1.9	7
35	Linear patterns of Alzheimer's disease mutations along alpha-helices of presenilins as a tool for PS-1 model construction. <i>Journal of Neurochemistry</i> , 2006 , 98, 1560-72	6	7
34	Molecular Modeling of Histamine Receptors-Recent Advances in Drug Discovery. <i>Molecules</i> , 2021 , 26,	4.8	7
33	Study of early stages of amyloid A β 3-23 formation using molecular dynamics simulation in implicit environments. <i>Computational Biology and Chemistry</i> , 2015 , 56, 13-8	3.6	6
32	Aquaporin-graphene interface: relevance to point-of-care device for renal cell carcinoma and desalination. <i>Interface Focus</i> , 2018 , 8, 20170066	3.9	6
31	Generation and characterization of a novel, permanently active S100P mutant. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009 , 1793, 1078-85	4.9	6
30	The Mechanism of Ligand-Induced Activation or Inhibition of μ and δ Opioid Receptors. <i>Angewandte Chemie</i> , 2015 , 127, 7670-7673	3.6	5
29	Cell-free expression of human glucosamine 6-phosphate N-acetyltransferase (HsGNA1) for inhibitor screening. <i>Protein Expression and Purification</i> , 2012 , 86, 120-6	2	5
28	SOLVENT EFFECTS ON CRYPTAND (222) COMPLEXATION. <i>Journal of Coordination Chemistry</i> , 1999 , 48, 147-155	1.6	5
27	Studies of the Activation Steps Concurrent to Ligand Binding in μ R and δ R Opioid Receptors Based on Molecular Dynamics Simulations. <i>The Open Structural Biology Journal</i> , 2009 , 3, 51-63		5

26	Allosteric Modulation of the CB1 Cannabinoid Receptor by Cannabidiol-A Molecular Modeling Study of the N-Terminal Domain and the Allosteric-Orthosteric Coupling. <i>Molecules</i> , 2021 , 26,	4.8	5
25	The Hydrophobic Ligands Entry and Exit from the GPCR Binding Site-SMD and SuMD Simulations. <i>Molecules</i> , 2020 , 25,	4.8	4
24	Properties of Radical Anions of Triptindanones and Indanones: Electronic Communication and Stability of Ion Pairs Containing Lithium Cations. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7436-7442	3.8	4
23	Molecular models of the interface between anterior pharynx-defective protein 1 (APH-1) and presenilin involving GxxxG motifs. <i>ChemMedChem</i> , 2008 , 3, 627-34	3.7	4
22	The effect of triple glutamic mutations E9Q/E194Q/E204Q on the structural stability of bacteriorhodopsin. <i>FEBS Journal</i> , 2014 , 281, 1181-95	5.7	3
21	Rates of the halide ion cleavage from halo-9,10-diphenylanthracene anion radicals in DMF. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 440, 163-167	4.1	3
20	SOD1 mutations associated with amyotrophic lateral sclerosis analysis of variant severity.. <i>Scientific Reports</i> , 2022 , 12, 103	4.9	3
19	Interaction of the middle domains stabilizes Hsp90 α dimer in a closed conformation with high affinity for p23. <i>Biological Chemistry</i> , 2018 , 399, 337-345	4.5	2
18	THE INFLUENCE OF STRUCTURAL EFFECTS ON THE COMPLEXING ABILITY OF CROWN ETHERS. <i>Journal of Coordination Chemistry</i> , 2000 , 50, 131-140	1.6	2
17	Modeling of Membrane Proteins. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 371-451	0.5	2
16	Mechanistic Studies on the Stereoselectivity of the Serotonin 5-HT1A Receptor. <i>Angewandte Chemie</i> , 2016 , 128, 8803-8807	3.6	2
15	Approaches for Differentiation and Interconverting GPCR Agonists and Antagonists. <i>Methods in Molecular Biology</i> , 2018 , 1705, 265-296	1.4	2
14	Crystal structures of nematode (parasitic <i>T. spiralis</i> and free living <i>C. elegans</i>), compared to mammalian, thymidylate synthases (TS). Molecular docking and molecular dynamics simulations in search for nematode-specific inhibitors of TS. <i>Journal of Molecular Graphics and Modelling</i> , 2017 , 77, 33-50	2.8	1
13	STABILITY OF THE NONACTIN-K ⁺ COMPLEX IN APROTIC MEDIA. <i>Main Group Metal Chemistry</i> , 1999 , 22,	1.6	1
12	Identification of Specific Effect of Chloride on the Spectral Properties and Structural Stability of Multiple Extracellular Glutamic Acid Mutants of Bacteriorhodopsin. <i>PLoS ONE</i> , 2016 , 11, e0162952	3.7	1
11	Structural diversity in ligand recognition by GPCRs 2020 , 43-63		1
10	GPCRsignal: webserver for analysis of the interface between G-protein-coupled receptors and their effector proteins by dynamics and mutations. <i>Nucleic Acids Research</i> , 2021 , 49, W247-W256	20.1	0
9	The Molecular Mechanism of P2Y1 Receptor Activation. <i>Angewandte Chemie</i> , 2016 , 128, 10487-10491	3.6	0

- 8 Homology Modeling Using GPCRM Web Service. *Methods in Molecular Biology*, **2021**, 2268, 305-321 1.4 0
- 7 Application of a Membrane Protein Structure Prediction Web Service GPCRM to a Gastric Inhibitory Polypeptide Receptor Model. *Lecture Notes in Computer Science*, **2017**, 151-162 0.9
- 6 Nano-Encapsulation of Glucose Oxidase Dimer by Graphene. *Materials Research Society Symposia Proceedings*, **2015**, 1725, 1
- 5 Modeling of Membrane Proteins. *Springer Series in Bio-/neuroinformatics*, **2014**, 357-431
- 4 Visible Absorption Spectra of Diaryl Carbonyl Radical Anions. *Microchemical Journal*, **1997**, 57, 52-58 4.8
- 3 Dimerization and Oligomerization of Rhodopsin and Other G Protein-Coupled Receptors. *Challenges and Advances in Computational Chemistry and Physics*, **2007**, 453-467 0.7
- 2 Unexpected Reaction Products of Uracil and Its Methyl Derivatives with Acetic Anhydride and Methylene Chloride. *Journal of Organic Chemistry*, **2021**, 86, 14321-14332 4.2
- 1 Discovery of thiazolidin-4-one analogue as selective GSK-3 β inhibitor through structure based virtual screening. *Bioorganic and Medicinal Chemistry Letters*, **2021**, 52, 128375 2.9