Harel Weinstein

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301 papers	17,175 citations	67 h-index	121 g-index
374 ext. papers	18,720 ext. citations	6 avg, IF	6.68 L-index

#	Paper	IF	Citations
301	[19] Integrated methods for the construction of three-dimensional models and computational probing of structure-function relations in G protein-coupled receptors. *Methods in Neurosciences*, **1995**, 25, 366-428		1974
300	Functional selectivity and classical concepts of quantitative pharmacology. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 320, 1-13	4.7	870
299	Tas1r3, encoding a new candidate taste receptor, is allelic to the sweet responsiveness locus Sac. *Nature Genetics*, **2001**, 28, 58-63	36.3	439
298	Molecular mechanisms of ligand interaction with the gonadotropin-releasing hormone receptor. *Endocrine Reviews*, **1997**, 18, 180-205	27.2	417
297	Agonists induce conformational changes in transmembrane domains III and VI of the beta2 adrenoceptor. *EMBO Journal*, **1997**, 16, 6737-47	13	332
296	The mechanism of a neurotransmitter:sodium symporter--inward release of Na+ and substrate is triggered by substrate in a second binding site. *Molecular Cell*, **2008**, 30, 667-77	17.6	308
295	Allosteric communication between protomers of dopamine class A GPCR dimers modulates activation. *Nature Chemical Biology*, **2009**, 5, 688-95	11.7	294
294	Hinges, swivels and switches: the role of prolines in signalling via transmembrane alpha-helices. *Trends in Pharmacological Sciences*, **2000**, 21, 445-51	13.2	269
293	The binding sites for cocaine and dopamine in the dopamine transporter overlap. *Nature Neuroscience*, **2008**, 11, 780-9	25.5	260
292	Crosstalk in G protein-coupled receptors: changes at the transmembrane homodimer interface determine activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 17495-500	11.5	252
291	Substrate-modulated gating dynamics in a Na+-coupled neurotransmitter transporter homologue. *Nature*, **2011**, 474, 109-13	50.4	244
290	Structural instability of a constitutively active G protein-coupled receptor. Agonist-independent activation due to conformational flexibility. *Journal of Biological Chemistry*, **1997**, 272, 2587-90	5.4	238
289	A comprehensive structure-based alignment of prokaryotic and eukaryotic neurotransmitter/Na+ symporters (NSS) aids in the use of the LeuT structure to probe NSS structure and function. *Molecular Pharmacology*, **2006**, 70, 1630-42	4.3	232
288	Single-molecule dynamics of gating in a neurotransmitter transporter homologue. *Nature*, **2010**, 465, 188-93	50.4	213
287	Functional microdomains in G-protein-coupled receptors. The conserved arginine-cage motif in the gonadotropin-releasing hormone receptor. *Journal of Biological Chemistry*, **1998**, 273, 10445-53	5.4	196
286	Related contribution of specific helix 2 and 7 residues to conformational activation of the serotonin 5-HT2A receptor. *Journal of Biological Chemistry*, **1995**, 270, 16683-8	5.4	183
285	A misconception concerning the electronic density distribution of an atom. *Theoretica Chimica Acta*, **1975**, 38, 159-163		173

284	Single-molecule analysis of ligand efficacy in β2AR-G-protein activation. *Nature*, **2017**, 547, 68-73	50.4	164
283	Binding of an octylglucoside detergent molecule in the second substrate (S2) site of LeuT establishes an inhibitor-bound conformation. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5563-8	11.5	160
282	PDZBase: a protein-protein interaction database for PDZ-domains. *Bioinformatics*, **2005**, 21, 827-8	7.2	160
281	A cluster of aromatic residues in the sixth membrane-spanning segment of the dopamine D2 receptor is accessible in the binding-site crevice. *Biochemistry*, **1998**, 37, 998-1006	3.2	160
280	Ion/substrate-dependent conformational dynamics of a bacterial homolog of neurotransmitter:sodium symporters. *Nature Structural and Molecular Biology*, **2010**, 17, 822-9	17.6	157
279	. *Nature Genetics*, **2001**, 28, 58-63	36.3	144
278	Three-dimensional representations of G protein-coupled receptor structures and mechanisms. *Methods in Enzymology*, **2002**, 343, 329-71	1.7	143
277	Structure and dynamics of calmodulin in solution. *Biophysical Journal*, **1998**, 74, 1622-39	2.9	132
276	Some relations between electronic distribution and electronegativity. *Journal of Chemical Physics*, **1979**, 71, 4218-4220	3.9	131
275	A detailed interpretation of OH radical footprints in a TBP-DNA complex reveals the role of dynamics in the mechanism of sequence-specific binding. *Journal of Molecular Biology*, **2000**, 304, 55-68	6.5	123
274	Psychotomimetics as anticholinergic agents. I. 1-Cyclohexylpiperidine derivatives: anticholinesterase activity and antagonistic activity to acetylcholine. *Biochemical Pharmacology*, **1974**, 23, 1263-81	6	123
273	Transport domain unlocking sets the uptake rate of an aspartate transporter. *Nature*, **2015**, 518, 68-73	50.4	120
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270	Ca(2+)-binding and structural dynamics in the functions of calmodulin. *Annual Review of Physiology*, **1994**, 56, 213-36	23.1	113
269	An intracellular interaction network regulates conformational transitions in the dopamine transporter. *Journal of Biological Chemistry*, **2008**, 283, 17691-701	5.4	108
268	Characterization of novel cathepsin K mutations in the pro and mature polypeptide regions causing pycnodysostosis. *Journal of Clinical Investigation*, **1999**, 103, 731-8	15.9	107
267	Conformational dynamics of ligand-dependent alternating access in LeuT. *Nature Structural and Molecular Biology*, **2014**, 21, 472-9	17.6	102

266	Structural and dynamic effects of cholesterol at preferred sites of interaction with rhodopsin identified from microsecond length molecular dynamics simulations. *Proteins: Structure, Function and Bioinformatics*, **2009**, 76, 403-17	4.2	100
265	Signal transduction by a 5-HT2 receptor: a mechanistic hypothesis from molecular dynamics simulations of the three-dimensional model of the receptor complexed to ligands. *Journal of Medicinal Chemistry*, **1993**, 36, 934-8	8.3	100
264	Conserved helix 7 tyrosine acts as a multistate conformational switch in the 5HT2C receptor. Identification of a novel "locked-on" phenotype and double revertant mutations. *Journal of Biological Chemistry*, **2002**, 277, 36577-84	5.4	99
263	The substrate-driven transition to an inward-facing conformation in the functional mechanism of the dopamine transporter. *PLoS ONE*, **2011**, 6, e16350	3.7	99
262	The role of a conserved proline residue in mediating conformational changes associated with voltage gating of Cx32 gap junctions. *Biophysical Journal*, **1999**, 76, 2887-98	2.9	98
261	Conformational Memories and the Exploration of Biologically Relevant Peptide Conformations: An Illustration for the Gonadotropin-Releasing Hormone. *Journal of the American Chemical Society*, **1996**, 118, 5580-5589	16.4	98
260	Augmenting drug-carrier compatibility improves tumour nanotherapy efficacy. *Nature Communications*, **2016**, 7, 11221	17.4	96
259	Thermodynamic basis for promiscuity and selectivity in protein-protein interactions: PDZ domains, a case study. *Journal of the American Chemical Society*, **2006**, 128, 12766-77	16.4	96
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257	The study of G-protein coupled receptor oligomerization with computational modeling and bioinformatics. *FEBS Journal*, **2005**, 272, 2926-38	5.7	87
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255	Membrane driven spatial organization of GPCRs. *Scientific Reports*, **2013**, 3, 2909	4.9	86
254	Identification of a small-molecule inhibitor of the PICK1 PDZ domain that inhibits hippocampal LTP and LTD. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 413-8	11.5	86
253	Functional role of a conserved motif in TM6 of the rat mu opioid receptor: constitutively active and inactive receptors result from substitutions of Thr6.34(279) with Lys and Asp. *Biochemistry*, **2001**, 40, 13501-9	3.2	85
252	Ligand-dependent conformations and dynamics of the serotonin 5-HT(2A) receptor determine its activation and membrane-driven oligomerization properties. *PLoS Computational Biology*, **2012**, 8, e1002473	5	84
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249	Experimental conditions can obscure the second high-affinity site in LeuT. *Nature Structural and Molecular Biology*, **2012**, 19, 207-11	17.6	82

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247	Prokink: a protocol for numerical evaluation of helix distortions by proline. *Protein Engineering, Design and Selection*, **2000**, 13, 603-6	1.9	81
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243	Ion-controlled conformational dynamics in the outward-open transition from an occluded state of LeuT. *Biophysical Journal*, **2012**, 103, 878-88	2.9	77
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230	The functional microdomain in transmembrane helices 2 and 7 regulates expression, activation, and coupling pathways of the gonadotropin-releasing hormone receptor. *Journal of Biological Chemistry*, **1999**, 274, 28880-6	5.4	65
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216	Modeling membrane deformations and lipid demixing upon protein-membrane interaction: the BAR dimer adsorption. *Biophysical Journal*, **2009**, 97, 1626-35	2.9	55
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165	Topology of Type II REases revisited; structural classes and the common conserved core. *Nucleic Acids Research*, **2007**, 35, 2227-37	20.1	32
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