Stuart C Feinstein

List of Publications by Year in Descending Order

51 papers	2,666 citations	25 h-index	51 g-index
69 ext. papers	2,940 ext. citations	5.9 avg, IF	4.66 L-index

#	Paper	IF	Citations
51	Microtubule and tubulin binding and regulation of microtubule dynamics by the antibody drug conjugate (ADC) payload, monomethyl auristatin E (MMAE): Mechanistic insights into MMAE ADC peripheral neuropathy. *Toxicology and Applied Pharmacology*, **2021**, 421, 115534	4.6	5
50	Tubulin Protofilaments: Tubulin Double Helix: Lateral and Longitudinal Curvature Changes of Tubulin Protofilament (Small 37/2020). *Small*, **2020**, 16, 2070205	11	
49	Tubulin Double Helix: Lateral and Longitudinal Curvature Changes of Tubulin Protofilament. *Small*, **2020**, 16, e2001240	11	2
48	Minireview - Microtubules and Tubulin Oligomers: Shape Transitions and Assembly by Intrinsically Disordered Protein Tau and Cationic Biomolecules. *Langmuir*, **2019**, 35, 15970-15978	4	2
47	Tau isoform-specific stabilization of intermediate states during microtubule assembly and disassembly. *Journal of Biological Chemistry*, **2019**, 294, 12265-12280	5.4	2
46	Differential Morphological and Biochemical Recovery from Chemotherapy-Induced Peripheral Neuropathy Following Paclitaxel, Ixabepilone, or Eribulin Treatment in Mouse Sciatic Nerves. *Neurotoxicity Research*, **2018**, 34, 677-692	4.3	12
45	Peripheral Neuropathy Induced by Microtubule-Targeted Chemotherapies: Insights into Acute Injury and Long-term Recovery. *Cancer Research*, **2018**, 78, 817-829	10.1	38
44	Microtubule-Targeting Agents Eribulin and Paclitaxel Differentially Affect Neuronal Cell Bodies in Chemotherapy-Induced Peripheral Neuropathy. *Neurotoxicity Research*, **2017**, 32, 151-162	4.3	16
43	Synchrotron small-angle X-ray scattering and electron microscopy characterization of structures and forces in microtubule/Tau mixtures. *Methods in Cell Biology*, **2017**, 141, 155-178	1.8	1
42	Digital quantification of neurite outgrowth and retraction by phase-contrast microscopy: A tau perspective. *Methods in Cell Biology*, **2017**, 141, 217-228	1.8	4
41	Expression and isolation of recombinant tau. *Methods in Cell Biology*, **2017**, 141, 3-26	1.8	2
40	Paclitaxel suppresses Tau-mediated microtubule bundling in a concentration-dependent manner. *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 3456-3463	4	8
39	1,2,3,4,6-penta-O-galloyl-□D-glucopyranose Binds to the N-terminal Metal Binding Region to Inhibit Amyloid -protein Oligomer and Fibril Formation. *International Journal of Mass Spectrometry*, **2017**, 420, 24-34	1.9	16
38	Tau mediates microtubule bundle architectures mimicking fascicles of microtubules found in the axon initial segment. *Nature Communications*, **2016**, 7, 12278	17.4	33
37	Effects of wild type tau and disease-linked tau mutations on microtubule organization and intracellular trafficking. *Journal of Biomechanics*, **2016**, 49, 1280-1285	2.9	4
36	Effects of Paclitaxel and Eribulin in Mouse Sciatic Nerve: A Microtubule-Based Rationale for the Differential Induction of Chemotherapy-Induced Peripheral Neuropathy. *Neurotoxicity Research*, **2016**, 29, 299-313	4.3	25
35	Opposing Effects of Cucurbit[7]uril and 1,2,3,4,6-Penta-O-galloyl-□d-glucopyranose on Amyloid □25-35 Assembly. *ACS Chemical Neuroscience*, **2016**, 7, 218-26	5.7	20

34	Amyloid β-Protein C-Terminal Fragments: Formation of Cylindrins and β-Barrels. *Journal of the American Chemical Society*, **2016**, 138, 549-57	16.4	67
33	Oligomerization of the microtubule-associated protein tau is mediated by its N-terminal sequences: implications for normal and pathological tau action. *Journal of Neurochemistry*, **2016**, 137, 939-54	6	23
32	Structural Basis for Induction of Peripheral Neuropathy by Microtubule-Targeting Cancer Drugs. *Cancer Research*, **2016**, 76, 5115-23	10.1	25
31	Tau assembly: the dominant role of PHF6 (VQIVYK) in microtubule binding region repeat R3. *Journal of Physical Chemistry B*, **2015**, 119, 4582-93	3.4	99
30	Tau Aggregation Propensity Engrained in Its Solution State. *Journal of Physical Chemistry B*, **2015**, 119, 14421-32	3.4	21
29	Direct force measurements reveal that protein Tau confers short-range attractions and isoform-dependent steric stabilization to microtubules. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E6416-25	11.5	34
28	Regulation and aggregation of intrinsically disordered peptides. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2758-63	11.5	130
27	Tau proteins harboring neurodegeneration-linked mutations impair kinesin translocation in vitro. *Journal of Alzheimer's Disease*, **2014**, 39, 301-14	4.3	11
26	Effects of eribulin, vincristine, paclitaxel and ixabepilone on fast axonal transport and kinesin-1 driven microtubule gliding: implications for chemotherapy-induced peripheral neuropathy. *NeuroToxicology*, **2013**, 37, 231-9	4.4	142
25	A novel MAPT mutation, G55R, in a frontotemporal dementia patient leads to altered Tau function. *PLoS ONE*, **2013**, 8, e76409	3.7	18
24	Tau isoform-specific modulation of kinesin-driven microtubule gliding rates and trajectories as determined with tau-stabilized microtubules. *Cytoskeleton*, **2011**, 68, 44-55	2.4	25
23	Amyloid beta-mediated cell death of cultured hippocampal neurons reveals extensive Tau fragmentation without increased full-length tau phosphorylation. *Journal of Biological Chemistry*, **2011**, 286, 20797-811	5.4	61
22	Combinatorial Tau pseudophosphorylation: markedly different regulatory effects on microtubule assembly and dynamic instability than the sum of the individual parts. *Journal of Biological Chemistry*, **2011**, 286, 14257-70	5.4	27
21	Quantitative analysis of MAP-mediated regulation of microtubule dynamic instability in vitro focus on Tau. *Methods in Cell Biology*, **2010**, 95, 481-503	1.8	13
20	A general modeling and visualization tool for comparing different members of a group: application to studying tau-mediated regulation of microtubule dynamics. *BMC Bioinformatics*, **2008**, 9, 339	3.6	1
19	FTDP-17 mutations in Tau alter the regulation of microtubule dynamics: an "alternative core" model for normal and pathological Tau action. *Journal of Biological Chemistry*, **2008**, 283, 36406-15	5.4	30
18	Complementary dimerization of microtubule-associated tau protein: Implications for microtubule bundling and tau-mediated pathogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7445-50	11.5	114
17	Model based dynamics analysis in live cell microtubule images. *BMC Cell Biology*, **2007**, 8 Suppl 1, S4		11

16	FTDP-17 mutations compromise the ability of tau to regulate microtubule dynamics in cells. *Journal of Biological Chemistry*, **2006**, 281, 11856-63	5.4	69
15	Inability of tau to properly regulate neuronal microtubule dynamics: a loss-of-function mechanism by which tau might mediate neuronal cell death. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2005**, 1739, 268-79	6.9	133
14	Three- and four-repeat tau regulate the dynamic instability of two distinct microtubule subpopulations in qualitatively different manners. Implications for neurodegeneration. *Journal of Biological Chemistry*, **2005**, 280, 13520-8	5.4	73
13	Modulation of microtubule dynamics by tau in living cells: implications for development and neurodegeneration. *Molecular Biology of the Cell*, **2004**, 15, 2720-8	3.5	122
12	Evidence for two distinct binding sites for tau on microtubules. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 6746-51	11.5	93
11	Microtubule-dependent oligomerization of tau. Implications for physiological tau function and tauopathies. *Journal of Biological Chemistry*, **2003**, 278, 33298-304	5.4	82
10	Differential regulation of microtubule dynamics by three- and four-repeat tau: implications for the onset of neurodegenerative disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 9548-53	11.5	193
9	Structural and functional differences between 3-repeat and 4-repeat tau isoforms. Implications for normal tau function and the onset of neurodegenetative disease. *Journal of Biological Chemistry*, **2000**, 275, 38182-9	5.4	165
8	The TrkB receptor tyrosine kinase regulates cellular proliferation via signal transduction pathways involving SHC, PLCgamma, and CBL. *Journal of Receptor and Signal Transduction Research*, **1999**, 19, 953-74	2.6	11
7	Activation loop tyrosines contribute varying roles to TrkB autophosphorylation and signal transduction. *Oncogene*, **1998**, 16, 1691-700	9.2	23
6	Neurotrophins and neuronal versus glial differentiation in medulloblastomas and other pediatric brain tumors. *Acta Neuropathologica*, **1998**, 95, 325-32	14.3	29
5	Evidence that perihypoglossal neurons involved in vestibular-auditory and gaze control functions respond to nerve growth factor. *Journal of Comparative Neurology*, **1997**, 383, 123-34	3.4	10
4	Developmental and mature expression of full-length and truncated TrkB receptors in the rat forebrain. *Journal of Comparative Neurology*, **1996**, 374, 21-40	3.4	225
3	Kinetic stabilization of microtubule dynamics at steady state by tau and microtubule-binding domains of tau. *Biochemistry*, **1995**, 34, 11117-27	3.2	146
2	Presence or absence of TrkA protein distinguishes subsets of small sensory neurons with unique cytochemical characteristics and dorsal horn projections. *Journal of Comparative Neurology*, **1995**, 361, 404-16	3.4	245
1	Molecular analysis of the nerve growth factor inducible ornithine decarboxylase gene in PC12 cells. *Journal of Neuroscience Research*, **1993**, 34, 304-14	4.4	5