David J Anderson

List of Publications by Year in Descending Order

52 papers	5,718 citations	34 h-index	62 g-index
62 ext. papers	7,748 ext. citations	24.2 avg, IF	6.15 L-index

#	Paper	IF	Citations
52	Whole-animal multiplexed single-cell RNA-seq reveals transcriptional shifts across medusa cell types. *Science Advances*, **2021**, 7, eabh1683	14.3	6
51	A genetically tractable jellyfish model for systems and evolutionary neuroscience. *Cell*, **2021**, 184, 5854-5868.e20	36.2	20
50	The Mouse Action Recognition System (MARS) software pipeline for automated analysis of social behaviors in mice. *ELife*, **2021**, 10,	8.9	10
49	Make war not love: The neural substrate underlying a state-dependent switch in female social behavior.. *Neuron*, **2021**,	13.9	5
48	Distinct hypothalamic control of same- and opposite-sex mounting behaviour in mice. *Nature*, **2021**, 589, 258-263	50.4	29
47	A circuit logic for sexually shared and dimorphic aggressive behaviors in Drosophila. *Cell*, **2021**, 184, 507-520.e18	36.2	16
46	Neurons that Function within an Integrator to Promote a Persistent Behavioral State in Drosophila. *Neuron*, **2020**, 105, 322-333.e5	13.9	31
45	Experience-dependent plasticity in an innate social behavior is mediated by hypothalamic LTP. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 25789-25799	11.5	12
44	Stimulus-specific hypothalamic encoding of a persistent defensive state. *Nature*, **2020**, 586, 730-734	50.4	17
43	Connectional architecture of a mouse hypothalamic circuit node controlling social behavior. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7503-7512	11.5	57
42	Multimodal Analysis of Cell Types in a Hypothalamic Node Controlling Social Behavior. *Cell*, **2019**, 179, 713-728.e17	56.2	84
41	Computational Neuroethology: A Call to Action. *Neuron*, **2019**, 104, 11-24	13.9	134
40	Imaging neuropeptide release at synapses with a genetically engineered reporter. *ELife*, **2019**, 8,	8.9	16
39	Neuropeptidergic Control of an Internal Brain State Produced by Prolonged Social Isolation Stress. *Cold Spring Harbor Symposia on Quantitative Biology*, **2018**, 83, 97-103	3.9	7
38	A Brain Module for Scalable Control of Complex, Multi-motor Threat Displays. *Neuron*, **2018**, 100, 1474-1490.e4	13.9	24
37	The Neuropeptide Tac2 Controls a Distributed Brain State Induced by Chronic Social Isolation Stress. *Cell*, **2018**, 173, 1265-1279.e19	56.2	110
36	Social behaviour shapes hypothalamic neural ensemble representations of conspecific sex. *Nature*, **2017**, 550, 388-392	50.4	103

35	A Circuit Node that Integrates Convergent Input from Neuromodulatory and Social Behavior-Promoting Neurons to Control Aggression in Drosophila. *Neuron*, **2017**, 95, 1112-1128.e7	13.9	50
34	Circuit modules linking internal states and social behaviour in flies and mice. *Nature Reviews Neuroscience*, **2016**, 17, 692-704	13.5	128
33	Behavioral responses to a repetitive visual threat stimulus express a persistent state of defensive arousal in Drosophila. *Current Biology*, **2015**, 25, 1401-15	6.3	65
32	The BRAIN Initiative: developing technology to catalyse neuroscience discovery. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2015**, 370,	5.8	119
31	Automated measurement of mouse social behaviors using depth sensing, video tracking, and machine learning. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E5351-60	11.5	171
30	Ventromedial hypothalamic neurons control a defensive emotion state. *ELife*, **2015**, 4,	8.9	399
29	P1 interneurons promote a persistent internal state that enhances inter-male aggression in Drosophila. *ELife*, **2015**, 4,	8.9	123
28	Author response: Ventromedial hypothalamic neurons control a defensive emotion state **2015**,		6
27	Author response: P1 interneurons promote a persistent internal state that enhances inter-male aggression in Drosophila **2015**,		3
26	A framework for studying emotions across species. *Cell*, **2014**, 157, 187-200	56.2	269
25	Control of stress-induced persistent anxiety by an extra-amygdala septohypothalamic circuit. *Cell*, **2014**, 156, 522-36	56.2	147
24	Tachykinin-expressing neurons control male-specific aggressive arousal in Drosophila. *Cell*, **2014**, 156, 221-35	56.2	193
23	Central amygdala PKC-[illegible]+) neurons mediate the influence of multiple anorexigenic signals. *Nature Neuroscience*, **2014**, 17, 1240-8	25.5	203
22	Antagonistic control of social versus repetitive self-grooming behaviors by separable amygdala neuronal subsets. *Cell*, **2014**, 158, 1348-1361	56.2	222
21	Toward a science of computational ethology. *Neuron*, **2014**, 84, 18-31	13.9	238
20	Optogenetic control of Drosophila using a red-shifted channelrhodopsin reveals experience-dependent influences on courtship. *Nature Methods*, **2014**, 11, 325-32	21.6	201
19	Scalable control of mounting and attack by Esr1+ neurons in the ventromedial hypothalamus. *Nature*, **2014**, 509, 627-32	50.4	269
18	Internal States and Behavioral Decision-Making: Toward an Integration of Emotion and Cognition. *Cold Spring Harbor Symposia on Quantitative Biology*, **2014**, 79, 199-210	3.9	40

17	Independent, reciprocal neuromodulatory control of sweet and bitter taste sensitivity during starvation in Drosophila. *Neuron*, **2014**, 84, 806-20	13.9	99
16	How food controls aggression in Drosophila. *PLoS ONE*, **2014**, 9, e105626	3.7	36
15	Optogenetics, sex, and violence in the brain: implications for psychiatry. *Biological Psychiatry*, **2012**, 71, 1081-9	7.9	93
14	Functional identification of an aggression locus in the mouse hypothalamus. *Nature*, **2011**, 470, 221-6	50.4	604
13	Automated monitoring and analysis of social behavior in Drosophila. *Nature Methods*, **2009**, 6, 297-303	21.6	251
12	Neural correlates of competing fear behaviors evoked by an innately aversive stimulus. *Journal of Neuroscience*, **2003**, 23, 3855-68	6.6	93
11	Temporally compartmentalized expression of ephrin-B2 during renal glomerular development. *Journal of the American Society of Nephrology: JASN*, **2001**, 12, 2673-2682	12.7	50
10	Identification of a cell type-specific silencer in the first exon of the His-1 gene. *Journal of Cellular Biochemistry*, **2000**, 76, 615-624	4.7	8
9	Genetic ablation of parathyroid glands reveals another source of parathyroid hormone. *Nature*, **2000**, 406, 199-203	50.4	318
8	NRSF/REST is required in vivo for repression of multiple neuronal target genes during embryogenesis. *Nature Genetics*, **1998**, 20, 136-42	36.3	399
7	Immortalization and controlled in vitro differentiation of murine multipotent neural crest stem cells. *Journal of Neurobiology*, **1997**, 32, 722-46		95
6	RPTP delta and the novel protein tyrosine phosphatase RPTP psi are expressed in restricted regions of the developing central nervous system. *Developmental Dynamics*, **1997**, 208, 48-61	2.9	49
5	Stem cells and transcription factors in the development of the mammalian neural crest. *FASEB Journal*, **1994**, 8, 707-13	0.9	46
4	Cell fate determination in the peripheral nervous system: the sympathoadrenal progenitor. *Journal of Neurobiology*, **1993**, 24, 185-98		57
3	The Mouse Action Recognition System (MARS): a software pipeline for automated analysis of social behaviors in mice		12
2	Whole Animal Multiplexed Single-Cell RNA-Seq Reveals Plasticity of Clytia Medusa Cell Types		5
1	Functional modules within a distributed neural network control feeding in a model medusa		2