# Donald G Rainnie

## List of Publications by Citations



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| 68 papers | 4,619 citations | 36 h-index | 67 g-index |
| 70 ext. papers | 5,069 ext. citations | 6.5 avg, IF | 5.45 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 68 | Adenosine inhibition of mesopontine cholinergic neurons: implications for EEG arousal. *Science*, **1994**, 263, 689-92 | 33.3 | 359 |
| 67 | Adenosinergic modulation of basal forebrain and preoptic/anterior hypothalamic neuronal activity in the control of behavioral state. *Behavioural Brain Research*, **2000**, 115, 183-204 | 3.4 | 287 |
| 66 | Serotonergic modulation of neurotransmission in the rat basolateral amygdala. *Journal of Neurophysiology*, **1999**, 82, 69-85 | 3.2 | 248 |
| 65 | Role of adenosine in behavioral state modulation: a microdialysis study in the freely moving cat. *Neuroscience*, **1997**, 79, 225-35 | 3.9 | 247 |
| 64 | Corticotrophin releasing factor-induced synaptic plasticity in the amygdala translates stress into emotional disorders. *Journal of Neuroscience*, **2004**, 24, 3471-9 | 6.6 | 246 |
| 63 | Abnormal fear response and aggressive behavior in mutant mice deficient for alpha-calcium-calmodulin kinase II. *Science*, **1994**, 266, 291-4 | 33.3 | 244 |
| 62 | Role of stress, corticotrophin releasing factor (CRF) and amygdala plasticity in chronic anxiety. *Stress*, **2005**, 8, 209-19 | 3 | 178 |
| 61 | Brainstem neuromodulation and REM sleep. *Seminars in Neuroscience*, **1995**, 7, 341-354 | | 178 |
| 60 | Neuroanatomical evidence for reciprocal regulation of the corticotrophin-releasing factor and oxytocin systems in the hypothalamus and the bed nucleus of the stria terminalis of the rat: Implications for balancing stress and affect. *Psychoneuroendocrinology*, **2011**, 36, 1312-26 | 5 | 172 |
| 59 | Presynaptic nicotinic receptors facilitate monoaminergic transmission. *Journal of Neuroscience*, **1998**, 18, 1904-12 | 6.6 | 161 |
| 58 | Stress Modulation of Opposing Circuits in the Bed Nucleus of the Stria Terminalis. *Neuropsychopharmacology*, **2016**, 41, 103-25 | 8.7 | 122 |
| 57 | Physiological and morphological characterization of parvalbumin-containing interneurons of the rat basolateral amygdala. *Journal of Comparative Neurology*, **2006**, 498, 142-61 | 3.4 | 110 |
| 56 | Central CRF neurons are not created equal: phenotypic differences in CRF-containing neurons of the rat paraventricular hypothalamus and the bed nucleus of the stria terminalis. *Frontiers in Neuroscience*, **2013**, 7, 156 | 5.1 | 104 |
| 55 | Differential expression of intrinsic membrane currents in defined cell types of the anterolateral bed nucleus of the stria terminalis. *Journal of Neurophysiology*, **2007**, 98, 638-56 | 3.2 | 104 |
| 54 | The amygdala, panic disorder, and cardiovascular responses. *Annals of the New York Academy of Sciences*, **2003**, 985, 308-25 | 6.5 | 96 |
| 53 | Oxytocin in the nucleus accumbens shell reverses CRFR2-evoked passive stress-coping after partner loss in monogamous male prairie voles. *Psychoneuroendocrinology*, **2016**, 64, 66-78 | 5 | 91 |
| 52 | Adenosine, prolonged wakefulness, and A1-activated NF-kappaB DNA binding in the basal forebrain of the rat. *Neuroscience*, **2001**, 104, 731-9 | 3.9 | 82 |

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|---|---|---|---|
| 51 | Trans-ACPD and L-APB presynaptically inhibit excitatory glutamatergic transmission in the basolateral amygdala (BLA). *Neuroscience Letters*, **1992**, 139, 87-91 | 3.3 | 79 |
| 50 | Cell-type specific deletion of GABA(A)1 in corticotropin-releasing factor-containing neurons enhances anxiety and disrupts fear extinction. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 16330-5 | 11.5 | 75 |
| 49 | The response of neurons in the bed nucleus of the stria terminalis to serotonin: implications for anxiety. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2009**, 33, 1309-20 | 5.5 | 73 |
| 48 | Thy1-expressing neurons in the basolateral amygdala may mediate fear inhibition. *Journal of Neuroscience*, **2013**, 33, 10396-404 | 6.6 | 64 |
| 47 | 5-hydroxytryptamine1A-like receptor activation in the bed nucleus of the stria terminalis: electrophysiological and behavioral studies. *Neuroscience*, **2004**, 128, 583-96 | 3.9 | 63 |
| 46 | Adenosine-mediated presynaptic modulation of glutamatergic transmission in the laterodorsal tegmentum. *Journal of Neuroscience*, **2001**, 21, 1076-85 | 6.6 | 62 |
| 45 | Dynamic corticostriatal activity biases social bonding in monogamous female prairie voles. *Nature*, **2017**, 546, 297-301 | 50.4 | 58 |
| 44 | Postnatal maturation of GABAergic transmission in the rat basolateral amygdala. *Journal of Neurophysiology*, **2013**, 110, 926-41 | 3.2 | 58 |
| 43 | Evidence for a perisomatic innervation of parvalbumin-containing interneurons by individual pyramidal cells in the basolateral amygdala. *Brain Research*, **2005**, 1035, 32-40 | 3.7 | 55 |
| 42 | BAI1 regulates spatial learning and synaptic plasticity in the hippocampus. *Journal of Clinical Investigation*, **2015**, 125, 1497-508 | 15.9 | 51 |
| 41 | Presynaptic 5-HT(1B) receptor-mediated serotonergic inhibition of glutamate transmission in the bed nucleus of the stria terminalis. *Neuroscience*, **2010**, 165, 1390-401 | 3.9 | 51 |
| 40 | Connections of the Mouse Orbitofrontal Cortex and Regulation of Goal-Directed Action Selection by Brain-Derived Neurotrophic Factor. *Biological Psychiatry*, **2017**, 81, 366-377 | 7.9 | 49 |
| 39 | Distinct subtypes of cholecystokinin (CCK)-containing interneurons of the basolateral amygdala identified using a CCK promoter-specific lentivirus. *Journal of Neurophysiology*, **2009**, 101, 1494-506 | 3.2 | 49 |
| 38 | Bi-directional modulation of bed nucleus of stria terminalis neurons by 5-HT: molecular expression and functional properties of excitatory 5-HT receptor subtypes. *Neuroscience*, **2009**, 164, 1776-93 | 3.9 | 48 |
| 37 | Group II metabotropic glutamate receptors in anxiety circuitry: correspondence of physiological response and subcellular distribution. *Journal of Comparative Neurology*, **2007**, 505, 682-700 | 3.4 | 45 |
| 36 | Synergistic activation of dopamine D1 and TrkB receptors mediate gain control of synaptic plasticity in the basolateral amygdala. *PLoS ONE*, **2011**, 6, e26065 | 3.7 | 43 |
| 35 | Striatal-enriched protein tyrosine phosphatase-STEPs toward understanding chronic stress-induced activation of corticotrophin releasing factor neurons in the rat bed nucleus of the stria terminalis. *Biological Psychiatry*, **2013**, 74, 817-26 | 7.9 | 38 |
| 34 | A transcriptomic analysis of type I-III neurons in the bed nucleus of the stria terminalis. *Molecular and Cellular Neurosciences*, **2011**, 46, 699-709 | 4.8 | 38 |

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| 33 | Spike-timing precision and neuronal synchrony are enhanced by an interaction between synaptic inhibition and membrane oscillations in the amygdala. *PLoS ONE*, **2012**, 7, e35320 | 3.7 | 36 |
| 32 | Prenatal Stress Alters the Development of Socioemotional Behavior and Amygdala Neuron Excitability in Rats. *Neuropsychopharmacology*, **2015**, 40, 2135-45 | 8.7 | 34 |
| 31 | A novel transgenic mouse for gene-targeting within cells that express corticotropin-releasing factor. *Biological Psychiatry*, **2010**, 67, 1212-6 | 7.9 | 34 |
| 30 | Neurons of the bed nucleus of the stria terminalis (BNST). Electrophysiological properties and their response to serotonin. *Annals of the New York Academy of Sciences*, **1999**, 877, 695-9 | 6.5 | 34 |
| 29 | Prenatal stress, regardless of concurrent escitalopram treatment, alters behavior and amygdala gene expression of adolescent female rats. *Neuropharmacology*, **2015**, 97, 251-8 | 5.5 | 31 |
| 28 | Morphology and dendritic maturation of developing principal neurons in the rat basolateral amygdala. *Brain Structure and Function*, **2016**, 221, 839-54 | 4 | 31 |
| 27 | Developmental disruption of amygdala transcriptome and socioemotional behavior in rats exposed to valproic acid prenatally. *Molecular Autism*, **2017**, 8, 42 | 6.5 | 30 |
| 26 | Effects of stress on AMPA receptor distribution and function in the basolateral amygdala. *Brain Structure and Function*, **2014**, 219, 1169-79 | 4 | 27 |
| 25 | Molecular characterization of Thy1 expressing fear-inhibiting neurons within the basolateral amygdala. *Nature Communications*, **2016**, 7, 13149 | 17.4 | 24 |
| 24 | Distribution of D1 and D5 dopamine receptors in the primate and rat basolateral amygdala. *Brain Structure and Function*, **2009**, 213, 375-93 | 4 | 24 |
| 23 | Amygdala-Dependent Molecular Mechanisms of the Tac2 Pathway in Fear Learning. *Neuropsychopharmacology*, **2016**, 41, 2714-22 | 8.7 | 23 |
| 22 | The central nucleus of the rat amygdala: in vitro intracellular recordings. *Brain Research*, **1993**, 604, 283-97 | 3.7 | 23 |
| 21 | Bidirectional regulation of synaptic plasticity in the basolateral amygdala induced by the D1-like family of dopamine receptors and group II metabotropic glutamate receptors. *Journal of Physiology* , **2014**, 592, 4329-51 | 3.9 | 21 |
| 20 | Memory Retention Involves the Ventrolateral Orbitofrontal Cortex: Comparison with the Basolateral Amygdala. *Neuropsychopharmacology*, **2018**, 43, 373-383 | 8.7 | 19 |
| 19 | Subtypes of substance P receptor immunoreactive interneurons in the rat basolateral amygdala. *Brain Research*, **2003**, 981, 41-51 | 3.7 | 19 |
| 18 | A comparative analysis of the physiological properties of neurons in the anterolateral bed nucleus of the stria terminalis in the Mus musculus, Rattus norvegicus, and Macaca mulatta. *Journal of Comparative Neurology*, **2017**, 525, 2235-2248 | 3.4 | 18 |
| 17 | Expression and distribution of Kv4 potassium channel subunits and potassium channel interacting proteins in subpopulations of interneurons in the basolateral amygdala. *Neuroscience*, **2010**, 171, 721-33 | 3.9 | 18 |
| 16 | RDoC-based categorization of amygdala functions and its implications in autism. *Neuroscience and Biobehavioral Reviews*, **2018**, 90, 115-129 | 9 | 16 |

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| 15 | Presynaptic muscarinic M(2) receptors modulate glutamatergic transmission in the bed nucleus of the stria terminalis. *Neuropharmacology*, **2012**, 62, 1671-83 | 5.5 | 16 |
| 14 | Serotonin receptor heterogeneity and the role of potassium channels in neuronal excitability. *Advances in Experimental Medicine and Biology*, **1991**, 287, 177-91 | 3.6 | 16 |
| 13 | In vivo kindling does not alter afterhyperpolarizations (AHPs) following action potential firing in vitro in basolateral amygdala neurons. *Brain Research*, **1992**, 588, 329-34 | 3.7 | 15 |
| 12 | Construction of cell-type specific promoter lentiviruses for optically guiding electrophysiological recordings and for targeted gene delivery. *Methods in Molecular Biology*, **2009**, 515, 199-213 | 1.4 | 13 |
| 11 | Microfabricated polymer-based neural interface for electrical stimulation/recording, drug delivery, and chemical sensing--development. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 5159-62 | 0.9 | 12 |
| 10 | Rho-kinase inhibition has antidepressant-like efficacy and expedites dendritic spine pruning in adolescent mice. *Neurobiology of Disease*, **2019**, 124, 520-530 | 7.5 | 11 |
| 9 | Serotonin gating of cortical and thalamic glutamate inputs onto principal neurons of the basolateral amygdala. *Neuropharmacology*, **2017**, 126, 224-232 | 5.5 | 10 |
| 8 | Subcellular distribution of the Rho-GEF Lfc in primate prefrontal cortex: effect of neuronal activation. *Journal of Comparative Neurology*, **2008**, 508, 927-39 | 3.4 | 9 |
| 7 | Repeated shock stress facilitates basolateral amygdala synaptic plasticity through decreased cAMP-specific phosphodiesterase type IV (PDE4) expression. *Brain Structure and Function*, **2018**, 223, 1731-1745 | 4 | 9 |
| 6 | Physiology of the Amygdala: Implications for PTSD **2009**, 39-78 | | 5 |
| 5 | High-fructose diet initiated during adolescence does not affect basolateral amygdala excitability or affective-like behavior in Sprague Dawley rats. *Behavioural Brain Research*, **2019**, 365, 17-25 | 3.4 | 4 |
| 4 | Distribution and functional expression of Kv4 family □subunits and associated KChIP □subunits in the bed nucleus of the stria terminalis. *Journal of Comparative Neurology*, **2014**, 522, 609-25 | 3.4 | 4 |
| 3 | Chronic stress induces cell type-selective transcriptomic and electrophysiological changes in the bed nucleus of the stria terminalis. *Neuropharmacology*, **2019**, 150, 80-90 | 5.5 | 3 |
| 2 | Chronic, multi-contact, neural interface for deep brain stimulation **2013**, | | 2 |
| 1 | Reward-related dynamical coupling between basolateral amygdala and nucleus accumbens. *Brain Structure and Function*, **2020**, 225, 1873-1888 | 4 | 0 |