

# Kiran K. Soma

## List of Publications by Year in descending order

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116  
papers

7,142  
citations

38660

50  
h-index

60497

81  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4011  
citing authors

#	ARTICLE	IF	CITATIONS
1	Avoiding the "Costs" of Testosterone: Ecological Bases of Hormone-Behavior Interactions. <i>Brain, Behavior and Evolution</i> , 2001, 57, 239-251.	0.9	478
2	Extra-adrenal glucocorticoids and mineralocorticoids: evidence for local synthesis, regulation, and function. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E11-E24.	1.8	219
3	Testosterone and Aggression: Berthold, Birds and Beyond. <i>Journal of Neuroendocrinology</i> , 2006, 18, 543-551.	1.2	204
4	Social regulation of the brain-pituitary-gonadal axis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 7794-7798.	3.3	199
5	Testosterone and Year-Round Territorial Aggression in a Tropical Bird. <i>General and Comparative Endocrinology</i> , 2000, 117, 20-33.	0.8	198
6	Novel mechanisms for neuroendocrine regulation of aggression. <i>Frontiers in Neuroendocrinology</i> , 2008, 29, 476-489.	2.5	195
7	Oestrogen regulates male aggression in the non-breeding season. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 1089-1096.	1.2	179
8	Dehydroepiandrosterone in Songbird Plasma: Seasonal Regulation and Relationship to Territorial Aggression. <i>General and Comparative Endocrinology</i> , 2001, 123, 144-155.	0.8	175
9	Brain aromatase, 5 $\alpha$ -reductase, and 5 $\alpha$ -reductase change seasonally in wild male song sparrows: Relationship to aggressive and sexual behavior. <i>Journal of Neurobiology</i> , 2003, 56, 209-221.	3.7	170
10	Acute and chronic effects of an aromatase inhibitor on territorial aggression in breeding and nonbreeding male song sparrows. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2000, 186, 759-769.	0.7	160
11	Combined Aromatase Inhibitor and Antiandrogen Treatment Decreases Territorial Aggression in a Wild Songbird during the Nonbreeding Season. <i>General and Comparative Endocrinology</i> , 1999, 115, 442-453.	0.8	157
12	Territorial aggression and hormones during the non-breeding season in a tropical bird. <i>Hormones and Behavior</i> , 2004, 45, 40-49.	1.0	149
13	Neurosteroids, immunosteroids, and the Balkanization of endocrinology. <i>General and Comparative Endocrinology</i> , 2008, 157, 266-274.	0.8	133
14	From The Cover: Cross-modal integration in a dart-poison frog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2425-2429.	3.3	132
15	Aggressive interactions rapidly increase androgen synthesis in the brain during the non-breeding season. <i>Hormones and Behavior</i> , 2010, 57, 381-389.	1.0	129
16	Dehydroepiandrosterone (DHEA) Increases Territorial Song and the Size of an Associated Brain Region in a Male Songbird. <i>Hormones and Behavior</i> , 2002, 41, 203-212.	1.0	125
17	Dehydroepiandrosterone Metabolism by 3 $\beta$ -Hydroxysteroid Dehydrogenase/5 $\alpha$ - $\beta$ Isomerase in Adult Zebra Finch Brain: Sex Difference and Rapid Effect of Stress. <i>Endocrinology</i> , 2004, 145, 1668-1677.	1.4	121
18	Seasonal changes in androgen receptor immunoreactivity in the song nucleus HVC of a wild bird. <i>Journal of Comparative Neurology</i> , 1999, 409, 224-236.	0.9	120

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19	Analysis of steroids in songbird plasma and brain by coupling solid phase extraction to radioimmunoassay. <i>General and Comparative Endocrinology</i> , 2008, 155, 503-510.	0.8	114
20	Colocalisation of Dynorphin A and Neurokinin B Immunoreactivity in the Arcuate Nucleus and Median Eminence of the Sheep. <i>Journal of Neuroendocrinology</i> , 2006, 18, 534-541.	1.2	110
21	Androgen-metabolizing enzymes show region-specific changes across the breeding season in the brain of a wild songbird. <i>Journal of Neurobiology</i> , 1999, 41, 176-188.	3.7	106
22	DHEA effects on brain and behavior: Insights from comparative studies of aggression. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 145, 261-272.	1.2	105
23	Neuroprogesterone: Key to estrogen positive feedback?. <i>Brain Research Reviews</i> , 2008, 57, 470-480.	9.1	102
24	Dehydroepiandrosterone and Corticosterone Are Regulated by Season and Acute Stress in a Wild Songbird: Jugular Versus Brachial Plasma. <i>Endocrinology</i> , 2008, 149, 2537-2545.	1.4	91
25	Non-breeding feather concentrations of testosterone, corticosterone and cortisol are associated with subsequent survival in wild house sparrows. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1560-1566.	1.2	90
26	Measurement of Steroid Concentrations in Brain Tissue: Methodological Considerations. <i>Frontiers in Endocrinology</i> , 2011, 2, 39.	1.5	83
27	Androgen Regulation of Hypothalamic Neurons Containing Gonadotropin-Releasing Hormone in a Cichlid Fish: Integration with Social Cues. <i>Hormones and Behavior</i> , 1996, 30, 216-226.	1.0	81
28	Spring and Autumn Territoriality in Song Sparrows: Same Behavior, Different Mechanisms?. <i>Integrative and Comparative Biology</i> , 2002, 42, 11-20.	0.9	80
29	The Hypothalamus and Adrenal Regulate Modulation of Corticosterone Release in Redpolls ( <i>Carduelis</i> ) Tj ETQq1 1 0.784314 rgBT /Overl	0.8	78
30	Effects of blood collection on wild birds: an update. <i>Journal of Avian Biology</i> , 2008, 39, 369-378.	0.6	74
31	Neurosteroids and Female Reproduction: Estrogen Increases 3 $\beta$ -HSD mRNA and Activity in Rat Hypothalamus. <i>Endocrinology</i> , 2005, 146, 4386-4390.	1.4	73
32	Corticosterone and dehydroepiandrosterone have opposing effects on adult neuroplasticity in the avian song control system. <i>Journal of Comparative Neurology</i> , 2010, 518, 3662-3678.	0.9	69
33	Changes in pituitary and adrenal sensitivities allow the snow bunting ( <i>Plectrophenax nivalis</i> ), an Arctic-breeding song bird, to modulate corticosterone release seasonally. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1998, 168, 353-358.	0.7	67
34	Rapid Effects of Aggressive Interactions on Aromatase Activity and Oestradiol in Discrete Brain Regions of Wild Male White-Crowned Sparrows. <i>Journal of Neuroendocrinology</i> , 2011, 23, 742-753.	1.2	67
35	Estrogen contributes to seasonal plasticity of the adult avian song control system. <i>Journal of Neurobiology</i> , 2004, 58, 413-422.	3.7	66
36	Recent advances in behavioral neuroendocrinology: Insights from studies on birds. <i>Hormones and Behavior</i> , 2005, 48, 461-473.	1.0	66

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37	Neural responses to aggressive challenge correlate with behavior in nonbreeding sparrows. <i>NeuroReport</i> , 2005, 16, 1719-1723.	0.6	64
38	Cortisol and corticosterone in the songbird immune and nervous systems: local vs. systemic levels during development. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R103-R110.	0.9	64
39	Sample Preparation and Liquid Chromatography-Tandem Mass Spectrometry for Multiple Steroids in Mammalian and Avian Circulation. <i>PLoS ONE</i> , 2012, 7, e32496.	1.1	63
40	Plasma DHEA levels in wild, territorial red squirrels: Seasonal variation and effect of ACTH. <i>General and Comparative Endocrinology</i> , 2008, 158, 61-67.	0.8	62
41	Inhibition of Hippocampal Aromatization Impairs Spatial Memory Performance in a Male Songbird. <i>Endocrinology</i> , 2013, 154, 4707-4714.	1.4	62
42	Neurosteroids and brain sexual differentiation. <i>Trends in Neurosciences</i> , 2001, 24, 429-431.	4.2	60
43	Multiple measures elucidate glucocorticoid responses to environmental variation in predation threat. <i>Oecologia</i> , 2011, 166, 607-614.	0.9	59
44	Rapid Effects of Estradiol on Aggression in Birds and Mice: The Fast and the Furious: Fig. 1. <i>Integrative and Comparative Biology</i> , 2015, 55, 281-293.	0.9	59
45	Androgen Regulation of the Mesocorticolimbic System and Executive Function. <i>Frontiers in Endocrinology</i> , 2018, 9, 279.	1.5	59
46	Rapid and Widespread Effects of 17 $\beta$ -Estradiol on Intracellular Signaling in the Male Songbird Brain: A Seasonal Comparison. <i>Endocrinology</i> , 2012, 153, 1364-1376.	1.4	54
47	Developmental programming of the HPA and HPG axes by early-life stress in male and female song sparrows. <i>General and Comparative Endocrinology</i> , 2014, 196, 72-80.	0.8	54
48	Steroid Profiling Reveals Widespread Local Regulation of Glucocorticoid Levels During Mouse Development. <i>Endocrinology</i> , 2015, 156, 511-522.	1.4	53
49	Steroid Concentrations in Plasma, Whole Blood and Brain: Effects of Saline Perfusion to Remove Blood Contamination from Brain. <i>PLoS ONE</i> , 2010, 5, e15727.	1.1	52
50	Corticosterone and dehydroepiandrosterone in songbird plasma and brain: effects of season and acute stress. <i>European Journal of Neuroscience</i> , 2009, 29, 1905-1914.	1.2	51
51	Corticosterone and cortisol binding sites in plasma, immune organs and brain of developing zebra finches: Intracellular and membrane-associated receptors. <i>Brain, Behavior, and Immunity</i> , 2010, 24, 908-918.	2.0	51
52	3 $\beta$ -HSD activates DHEA in the songbird brain. <i>Neurochemistry International</i> , 2008, 52, 611-620.	1.9	50
53	Effects of aggressive encounters on plasma corticosteroid-binding globulin and its ligands in white-crowned sparrows. <i>Hormones and Behavior</i> , 2009, 56, 339-347.	1.0	50
54	17 $\beta$ -Estradiol levels in male zebra finch brain: Combining Palkovits punch and an ultrasensitive radioimmunoassay. <i>General and Comparative Endocrinology</i> , 2010, 167, 18-26.	0.8	50

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55	Transient and permanent effects of suboptimal incubation temperatures on growth, metabolic rate, immune function, and adrenocortical responses in zebra finches. <i>Journal of Experimental Biology</i> , 2015, 218, 2847-55.	0.8	50
56	Hormones and Territorial Behavior during Breeding in Snow Buntings ( <i>Plectrophenax nivalis</i> ): An Arctic-Breeding Songbird. <i>Hormones and Behavior</i> , 1998, 33, 40-47.	1.0	49
57	Rapid estrogen regulation of DHEA metabolism in the male and female songbird brain. <i>Journal of Neurochemistry</i> , 2008, 104, 244-253.	2.1	48
58	Non-invasive administration of 17 $\beta$ -estradiol rapidly increases aggressive behavior in non-breeding, but not breeding, male song sparrows. <i>Hormones and Behavior</i> , 2015, 69, 31-38.	1.0	48
59	Elevated corticosterone levels in stomach milk, serum, and brain of male and female offspring after maternal corticosterone treatment in the rat. <i>Developmental Neurobiology</i> , 2010, 70, 714-725.	1.5	47
60	Fasting Increases Aggression and Differentially Modulates Local And Systemic Steroid Levels in Male Zebra Finches. <i>Endocrinology</i> , 2013, 154, 4328-4339.	1.4	44
61	Testosterone and Corticosterone in the Mesocorticolimbic System of Male Rats: Effects of Gonadectomy and Caloric Restriction. <i>Endocrinology</i> , 2018, 159, 450-464.	1.4	44
62	Effects of nutritional stress during different developmental periods on song and the hypothalamic-pituitary-adrenal axis in zebra finches. <i>Hormones and Behavior</i> , 2014, 65, 285-293.	1.0	37
63	Aggressive interactions differentially modulate local and systemic levels of corticosterone and DHEA in a wild songbird. <i>Hormones and Behavior</i> , 2011, 60, 389-396.	1.0	35
64	Effects of water restriction on reproductive physiology and affiliative behavior in an opportunistically-breeding and monogamous songbird, the zebra finch. <i>Hormones and Behavior</i> , 2013, 63, 462-474.	1.0	35
65	Sex Steroid Levels and AD-Like Pathology in 3xT-G Mice. <i>Journal of Neuroendocrinology</i> , 2013, 25, 131-144.	1.2	34
66	Local glucocorticoid production in lymphoid organs of mice and birds: Functions in lymphocyte development. <i>Hormones and Behavior</i> , 2017, 88, 4-14.	1.0	33
67	Rapid Effects of an Aggressive Interaction on Dehydroepiandrosterone, Testosterone and Oestradiol Levels in the Male Song Sparrow Brain: a Seasonal Comparison. <i>Journal of Neuroendocrinology</i> , 2016, 28, 12345.	1.2	31
68	Early-life antibiotic treatment enhances the pathogenicity of CD4+ T cells during intestinal inflammation. <i>Journal of Leukocyte Biology</i> , 2017, 101, 893-900.	1.5	31
69	Aggressive encounters differentially affect serum dehydroepiandrosterone and testosterone concentrations in male Siberian hamsters ( <i>Phodopus sungorus</i> ). <i>Hormones and Behavior</i> , 2009, 56, 376-381.	1.0	30
70	Neuroendocrine regulation of long-term pair maintenance in the monogamous zebra finch. <i>Hormones and Behavior</i> , 2015, 76, 11-22.	1.0	30
71	Regulation of local steroidogenesis in the brain and in prostate cancer: Lessons learned from interdisciplinary collaboration. <i>Frontiers in Neuroendocrinology</i> , 2015, 36, 108-129.	2.5	28
72	Tyramide Signal Amplification Permits Immunohistochemical Analyses of Androgen Receptors in the Rat Prefrontal Cortex. <i>Journal of Histochemistry and Cytochemistry</i> , 2017, 65, 295-308.	1.3	28

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73	Rapid effects of estradiol on aggression depend on genotype in a species with an estrogen receptor polymorphism. <i>Hormones and Behavior</i> , 2018, 98, 210-218.	1.0	28
74	Rapid effects of 17 $\beta$ -estradiol on aggressive behavior in songbirds: Environmental and genetic influences. <i>Hormones and Behavior</i> , 2018, 104, 41-51.	1.0	25
75	Sucrose consumption alters steroid and dopamine signalling in the female rat brain. <i>Journal of Endocrinology</i> , 2020, 245, 231-246.	1.2	25
76	Cortisol and corticosterone in immune organs and brain of European starlings: developmental changes, effects of restraint stress, comparison with zebra finches. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R42-R51.	0.9	24
77	Lymphoid organs of neonatal and adult mice preferentially produce active glucocorticoids from metabolites, not precursors. <i>Brain, Behavior, and Immunity</i> , 2016, 57, 271-281.	2.0	24
78	Concepts derived from the Challenge Hypothesis. <i>Hormones and Behavior</i> , 2019, 115, 104550.	1.0	23
79	A low carbohydrate, high protein diet suppresses intratumoral androgen synthesis and slows castration-resistant prostate tumor growth in mice. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 150, 35-45.	1.2	22
80	Profiling of systemic and brain steroids in male songbirds: Seasonal changes in neurosteroids. <i>Journal of Neuroendocrinology</i> , 2021, 33, e12922.	1.2	22
81	Locally elevated cortisol in lymphoid organs of the developing zebra finch but not Japanese quail or chicken. <i>Developmental and Comparative Immunology</i> , 2016, 54, 116-125.	1.0	21
82	A maternal high-fat, high-sucrose diet has sex-specific effects on fetal glucocorticoids with little consequence for offspring metabolism and voluntary locomotor activity in mice. <i>PLoS ONE</i> , 2017, 12, e0174030.	1.1	21
83	5 $\alpha$ -HSD in songbird brain: subcellular localization and rapid regulation by estradiol. <i>Journal of Neurochemistry</i> , 2010, 115, 667-675.	2.1	20
84	Stress in the wild: Chronic predator pressure and acute restraint affect plasma DHEA and corticosterone levels in a songbird. <i>Stress</i> , 2013, 16, 363-367.	0.8	19
85	Colony-Specific Differences in Endocrine and Immune Responses to an Inflammatory Challenge in Female Sprague Dawley Rats. <i>Endocrinology</i> , 2015, 156, 4604-4617.	1.4	18
86	Pubertal development of estradiol-induced hypothalamic progesterone synthesis. <i>Hormones and Behavior</i> , 2019, 111, 110-113.	1.0	18
87	Territorial Behavior, Hormonal Changes, and Body Condition in an Arctic-Breeding Song Bird, the Redpoll ( <i>Carduelis Flammea</i> ). <i>Behaviour</i> , 1997, 134, 727-747.	0.4	17
88	Soft song during aggressive interactions: Seasonal changes and endocrine correlates in song sparrows. <i>Hormones and Behavior</i> , 2012, 62, 455-463.	1.0	17
89	Effects of corticosterone and DHEA on doublecortin immunoreactivity in the song control system and hippocampus of adult song sparrows. <i>Developmental Neurobiology</i> , 2014, 74, 52-62.	1.5	16
90	Identification of Avian Corticosteroid-binding Globulin (Serpina6) Reveals the Molecular Basis of Evolutionary Adaptations in SerpinA6 Structure and Function as a Steroid-binding Protein. <i>Journal of Biological Chemistry</i> , 2016, 291, 11300-11312.	1.6	16

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91	Effects of aging on executive functioning and mesocorticolimbic dopamine markers in male Fischer 344— brown Norway rats. <i>Neurobiology of Aging</i> , 2018, 72, 134-146.	1.5	16
92	Measurement of 11-dehydrocorticosterone in mice, rats and songbirds: Effects of age, sex and stress. <i>General and Comparative Endocrinology</i> , 2019, 281, 173-182.	0.8	16
93	Sex differences in DHEA and estradiol during development in a wild songbird: Jugular versus brachial plasma. <i>Hormones and Behavior</i> , 2008, 54, 194-202.	1.0	15
94	Neuronal Gonadotrophinâ€Releasing Hormone (GnRH) and Astrocytic Gonadotrophin Inhibitory Hormone (GnIH) Immunoreactivity in the Adult RatâHippocampus. <i>Journal of Neuroendocrinology</i> , 2015, 27, 772-786.	1.2	15
95	Sex steroid profiles in zebra finches: Effects of reproductive state and domestication. <i>General and Comparative Endocrinology</i> , 2017, 244, 108-117.	0.8	15
96	Phenotypic flexibility of glucocorticoid signaling in skeletal muscles of a songbird preparing to migrate. <i>Hormones and Behavior</i> , 2019, 116, 104586.	1.0	14
97	Regulation of 3 <sup>Î²</sup> -HSD activity in the songbird brain. <i>Journal of Ornithology</i> , 2012, 153, 227-234.	0.5	13
98	Acute and chronic effects of an aromatase inhibitor on pair-maintenance behavior of water-restricted zebra finch pairs. <i>General and Comparative Endocrinology</i> , 2014, 196, 62-71.	0.8	13
99	Differential activation of endocrine-immune networks by arthritis challenge: Insights from colony-specific responses. <i>Scientific Reports</i> , 2017, 7, 698.	1.6	12
100	Effects of aging on testosterone and androgen receptors in the mesocorticolimbic system of male rats. <i>Hormones and Behavior</i> , 2020, 120, 104689.	1.0	12
101	Steroid profiling of glucocorticoids in microdissected mouse brain across development. <i>Developmental Neurobiology</i> , 2021, 81, 189-206.	1.5	12
102	Hippocampal volume does not change seasonally in a non food-storing songbird. <i>NeuroReport</i> , 2001, 12, 1925-1928.	0.6	11
103	Year-round territorial aggression is independent of plasma DHEA in the European nuthatch <i>Sitta europaea</i> . <i>Hormones and Behavior</i> , 2013, 63, 166-172.	1.0	11
104	Context-dependent effects of testosterone treatment to males on pair maintenance behaviour in zebra finches. <i>Animal Behaviour</i> , 2016, 114, 155-164.	0.8	11
105	Sex steroid profiles and pair-maintenance behavior of captive wild-caught zebra finches ( <i>Taeniopygia</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Ove</i> <i>Physiology</i> , 2016, 202, 35-44.	0.7	11
106	SteroidXtract: Deep Learning-Based Pattern Recognition Enables Comprehensive and Rapid Extraction of Steroid-Like Metabolic Features for Automated Biology-Driven Metabolomics. <i>Analytical Chemistry</i> , 2021, 93, 5735-5743.	3.2	11
107	DHEA and estradiol levels in brain, gonads, adrenal glands, and plasma of developing male and female European starlings. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2011, 197, 949-958.	0.7	10
108	Reprint of â€œConcepts derived from the Challenge Hypothesisâ€• <i>Hormones and Behavior</i> , 2020, 123, 104802.	1.0	10

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109	Gonadotropin releasing hormone (GnRH) and gonadotropin inhibitory hormone (GnIH) in the songbird hippocampus: Regional and sex differences in adult zebra finches. <i>Peptides</i> , 2013, 46, 64-75.	1.2	9
110	<i>Aggressive Behavior.</i> , 2018, , 242-247.		9
111	Preparing to migrate: expression of androgen signaling molecules and insulin-like growth factor-1 in skeletal muscles of Gambel's white-crowned sparrows. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2019, 205, 113-123.	0.7	9
112	Neuropeptide Y and orexin immunoreactivity in the sparrow brain coincide with seasonal changes in energy balance and steroids. <i>Journal of Comparative Neurology</i> , 2019, 527, 347-361.	0.9	9
113	Glucocorticoid production in the thymus and brain: Immunosteroids and neurosteroids. <i>Brain, Behavior, &amp; Immunity - Health</i> , 2021, 18, 100352.	1.3	6
114	Androgen synthesis inhibition increases behavioural flexibility and mPFC tyrosine hydroxylase in gonadectomized male rats. <i>Journal of Neuroendocrinology</i> , 2022, 34, e13128.	1.2	6
115	<i>Rapid Effects of Estrogens on Avian Brain and Social Behavior.</i> , 2017, , 291-303.		5
116	Glucocorticoid Production in Lymphoid Organs: Acute Effects of Lipopolysaccharide in Neonatal and Adult Mice. <i>Endocrinology</i> , 2022, 163, .	1.4	5