Lukas SchÃ¤rer

List of Publications by Year
in descending order

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Version: 2024-02-01

73 papers	3,228 citations	136950 32 h-index	182427 51 g-index
82 all docs	82 docs citations	82 times ranked	1465 citing authors

#	Article	IF	Citations
1	TESTS OF SEX ALLOCATION THEORY IN SIMULTANEOUSLY HERMAPHRODITIC ANIMALS. Evolution; International Journal of Organic Evolution, 2009, 63, 1377-1405.	2.3	213
2	Phenotypically plastic adjustment of sex allocation in a simultaneous hermaphrodite. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 935-941.	2.6	141
3	A new model organism among the lower Bilateria and the use of digital microscopy in taxonomy of meiobenthic Platyhelminthes: Macrostomum lignano, n. sp. (Rhabditophora, Macrostomorpha). Journal of Zoological Systematics and Evolutionary Research, 2005, 43, 114-126.	1.4	135
4	Anisogamy, chance and the evolution of sex roles. Trends in Ecology and Evolution, 2012, 27, 260-264.	8.7	135
5	Mating behavior and the evolution of sperm design. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1490-1495.	7.1	118
6	Genome and transcriptome of the regeneration-competent flatworm, Macrostomum lignano. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12462-12467.	7.1	90
7	Mating behaviour of the marine turbellarian Macrostomum sp.: these worms suck. Marine Biology, 2004, 145, 373.	1.5	86
8	Bateman Gradients in Hermaphrodites: An Extended Approach to Quantify Sexual Selection. American Naturalist, 2010, 176, 249-263.	2.1	83
9	SEX ALLOCATION ADJUSTMENT TO MATING GROUP SIZE IN A SIMULTANEOUS HERMAPHRODITE. Evolution; International Journal of Organic Evolution, 2013, 67, 3233-3242.	2.3	82
10	Sperm competition and the evolution of spermatogenesis. Molecular Human Reproduction, 2014, 20, 1169-1179.	2.8	82
11	Trade-off between male and female allocation in the simultaneously hermaphroditic flatworm Macrostomum sp.. Journal of Evolutionary Biology, 2004, 18, 396-404.	1.7	80
12	Sexual Conflict in Hermaphrodites. Cold Spring Harbor Perspectives in Biology, 2015, 7, a017673.	5.5	78
13	Why anisogamy drives ancestral sex roles. Evolution; International Journal of Organic Evolution, 2016, 70, 1129-1135.	2.3	75
14	The evolutionary ecology of testicular function: size isn't everything. Biological Reviews, 2014, 89, 874-888.	10.4	74
15	Phenotypic plasticity in sperm production rate: thereâ€™s more to it than testis size. Evolutionary Ecology, 2007, 21, 295-306.	1.2	72
16	Size-dependent sex allocation in a simultaneous hermaphrodite parasite. Journal of Evolutionary Biology, 2001, 14, 55-67.	1.7	67
17	Bigger testes do work more: experimental evidence that testis size reflects testicular cell proliferation activity in the marine invertebrate, the free-living flatworm Macrostomum sp.. Behavioral Ecology and Sociobiology, 2004, 56, 420.	1.4	66
18	Sex allocation and investment into pre- and post-copulatory traits in simultaneous hermaphrodites: the role of polyandry and local sperm competition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120052.	4.0	64

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19	Quantifying episodes of sexual selection: Insights from a transparent worm with fluorescent sperm. Evolution; International Journal of Organic Evolution, 2016, 70, 314-328.	2.3	62
20	Efficient transgenesis and annotated genome sequence of the regenerative flatworm model Macrostomum lignano. Nature Communications, 2017, 8, 2120.	12.8	60
21	Resource-dependent sex-allocation in a simultaneous hermaphrodite. Journal of Evolutionary Biology, 2007, 20, 1046-1055.	1.7	56
22	Goings-on inside a worm: functional hypotheses derived from sexual conflict thinking. Biological Journal of the Linnean Society, 0, 99, 370-383.	1.6	54
23	Sex allocation and sexual conflict in simultaneously hermaphroditic animals. Biology Letters, 2009, 5, 705-708.	2.3	50
24	Lifetime reproductive output in a hermaphrodite cestode when reproducing alone or in pairs: a time cost of pairing. Evolutionary Ecology, 1999, 13, 381-394.	1.2	49
25	PHENOTYPICALLY FLEXIBLE SEX ALLOCATION IN A SIMULTANEOUS HERMAPHRODITE. Evolution; International Journal of Organic Evolution, 2007, 61, 216-222.	2.3	48
26	Fluorescent sperm in a transparent worm: validation of a GFP marker to study sexual selection. BMC Evolutionary Biology, 2014, 14, 148.	3.2	48
27	Biological adhesion of the flatworm Macrostomum lignano relies on a duo-gland system and is mediated by a cell type-specific intermediate filament protein. Frontiers in Zoology, 2014, 11, 12.	2.0	46
28	Evidence for Karyotype Polymorphism in the Free-Living Flatworm, Macrostomum lignano, a Model Organism for Evolutionary and Developmental Biology. PLoS ONE, 2016, 11, e0164915.	2.5	46
29	Hypodermic self-insemination as a reproductive assurance strategy. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150660.	2.6	44
30	Sex allocation predicts mating rate in a simultaneous hermaphrodite. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 4247-4253.	2.6	43
31	Production and characterisation of cell- and tissue-specific monoclonal antibodies for the flatworm Macrostomum sp.. Histochemistry and Cell Biology, 2005, 123, 89-104.	1.7	41
32	The first multi-gene phylogeny of the Macrostomorpha sheds light on the evolution of sexual and asexual reproduction in basal Platyhelminthes. Molecular Phylogenetics and Evolution, 2015, 92, 82-107.	2.7	41
33	Indirect genetic effects and sexual conflicts: Partner genotype influences multiple morphological and behavioral reproductive traits in a flatworm. Evolution; International Journal of Organic Evolution, 2017, 71, 1232-1245.	2.3	37
34	Thraustochytrids as novel parasitic protists of marine free-living flatworms: Thraustochytrium caudivorum sp. nov. parasitizes Macrostomum lignano. Marine Biology, 2007, 152, 1095-1104.	1.5	35
35	Sperm competition-induced plasticity in the speed of spermatogenesis. BMC Evolutionary Biology, 2016, 16, 60.	3.2	35
36	Effects of mating status on copulatory and postcopulatory behaviour in a simultaneous hermaphrodite. Animal Behaviour, 2013, 85, 453-461.	1.9	34

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37	Positional RNA-Seq identifies candidate genes for phenotypic engineering of sexual traits. Frontiers in Zoology, 2015, 12, 14.	2.0	34
38	The free-living flatworm Macrostomum lignano: A new model organism for ageing research. Experimental Gerontology, 2009, 44, 243-249.	2.8	33
39	The free-living flatworm Macrostomum lignano. EvoDevo, 2020, 11, 5.	3.2	33
40	New insights into the karyotype evolution of the free-living flatworm Macrostomum lignano (Platyhelminthes, Turbellaria). Scientific Reports, 2017, 7, 6066.	3.3	32
41	Phenotypic engineering of sperm-production rate confirms evolutionary predictions of sperm competition theory. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122711.	2.6	31
42	Sex allocation plasticity on a transcriptome scale: Socially sensitive gene expression in a simultaneous hermaphrodite. Molecular Ecology, 2019, 28, 2321-2341.	3.9	30
43	Title is missing!. Aquatic Ecology, 2000, 34, 279-285.	1.5	29
44	The Stem Cell System of the Basal Flatworm Macrostomum lignano. , 2008, , 75-94.		29
45	Occurrence, costs and heritability of delayed selfing in a freeâ€living flatworm. Journal of Evolutionary Biology, 2012, 25, 2559-2568.	1.7	29
46	Evolution of testicular architecture in the Drosophilidae: A role for sperm length. BMC Evolutionary Biology, 2008, 8, 143.	3.2	26
47	A phylogenetically informed search for an alternative Macrostomum model species, with notes on taxonomy, mating behavior, karyology, and genome size. Journal of Zoological Systematics and Evolutionary Research, 2020, 58, 41-65.	1.4	26
48	Sperm competition affects sex allocation but not sperm morphology in a flatworm. Behavioral Ecology and Sociobiology, 2010, 64, 1367-1375.	1.4	25
49	Isolation and characterization of microsatellite loci from the tapewormSchistocephalus solidus. Molecular Ecology, 2000, 9, 1926-1927.	3.9	22
50	Melav2, an elav-like gene, is essential for spermatid differentiation in the flatworm Macrostomum lignano. BMC Developmental Biology, 2009, 9, 62.	2.1	22
51	Determinants of female fecundity in a simultaneous hermaphrodite: the role of polyandry and food availability. Evolutionary Ecology, 2011, 25, 203-218.	1.2	20
52	A targeted in situ hybridization screen identifies putative seminal fluid proteins in a simultaneously hermaphroditic flatworm. BMC Evolutionary Biology, 2018, 18, 81.	3.2	20
53	Tracking sperm of a donor in a recipient: an immunocytochemical approach. Animal Biology, 2007, 57, 121-136.	1.0	19
54	Earlier sex change in infected individuals of the protogynous reef fish Thalassoma bifasciatum. Behavioral Ecology and Sociobiology, 2003, 55, 137-143.	1.4	17

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55	The effect of cryptic female choice on sex allocation in simultaneous hermaphrodites. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 3123-3131.	2.6	15
56	No evidence for strong cytonuclear conflict over sex allocation in a simultaneously hermaphroditic flatworm. BMC Evolutionary Biology, 2017, 17, 103.	3.2	15
57	Genome and Karyotype Reorganization after Whole Genome Duplication in Free-Living Flatworms of the Genus Macrostomum. International Journal of Molecular Sciences, 2020, 21, 680.	4.1	14
58	Large-scale phylogenomics of the genus Macrostomum (Platyhelminthes) reveals cryptic diversity and novel sexual traits. Molecular Phylogenetics and Evolution, 2022, 166, 107296.	2.7	14
59	Variation in sex allocation plasticity in three closely related flatworm species. Ecology and Evolution, 2020, 10, 26-37.	1.9	13
60	Successful mating and hybridisation in two closely related flatworm species despite significant differences in reproductive morphology and behaviour. Scientific Reports, 2020, 10, 12830.	3.3	13
61	RNA-Seq of three free-living flatworm species suggests rapid evolution of reproduction-related genes. BMC Genomics, 2020, 21, 462.	2.8	12
62	Evolution: Don't Be So Butch, Dear!. Current Biology, 2014, 24, R311-R313.	3.9	11
63	The varied ways of being male and female. Molecular Reproduction and Development, 2017, 84, 94-104.	2.0	11
64	The repeatable opportunity for selection differs between pre- and postcopulatory fitness components. Evolution Letters, 2021, 5, 101-114.	3.3	10
65	Frequent origins of traumatic insemination involve convergent shifts in sperm and genital morphology. Evolution Letters, 2022, 6, 63-82.	3.3	10
66	No Plastic Responses to Experimental Manipulation of Sperm Competition per se in a Freeâ€Living Flatworm. Ethology, 2010, 116, 292-299.	1.1	7
67	Strategic mating effort in a simultaneous hermaphrodite. Behavioral Ecology and Sociobiology, 2012, 66, 593-601.	1.4	6
68	Mating behavior and reproductive morphology predict macroevolution of sex allocation in hermaphroditic flatworms. BMC Biology, 2022, 20, 35.	3.8	6
69	Faster Rates of Molecular Sequence Evolution in Reproduction-Related Genes and in Species with Hypodermic Sperm Morphologies. Molecular Biology and Evolution, 2021, 38, 5685-5703.	8.9	4
70	Rogue Sperm Indicate Sexually Antagonistic Coevolution in Nematodes. PLoS Biology, 2014, 12, e1001916.	5.6	3
71	Evolution of sex allocation plasticity in a hermaphroditic flatworm genus. Journal of Evolutionary Biology, 2022, 35, 817-830.	1.7	3
72	Evolution: Mitochondrial lodgers can take over inÂhermaphroditic snails. Current Biology, 2022, 32, R477-R479.	3.9	1

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73	Is the initiation of selfing linked to a hermaphroditeâ€™s female or male reproductive function?. Behavioral Ecology and Sociobiology, 2020, 74, 41.	1.4	0