

# Willie J Swanson

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

3,456  
citations

394421

19  
h-index

501196

28  
g-index

32  
all docs

32  
docs citations

32  
times ranked

3065  
citing authors

#	ARTICLE	IF	CITATIONS
1	The rapid evolution of reproductive proteins. <i>Nature Reviews Genetics</i> , 2002, 3, 137-144.	16.3	1,177
2	Pervasive Adaptive Evolution in Mammalian Fertilization Proteins. <i>Molecular Biology and Evolution</i> , 2003, 20, 18-20.	8.9	427
3	Evolution of reproductive proteins from animals and plants. <i>Reproduction</i> , 2006, 131, 11-22.	2.6	319
4	Maximum-Likelihood Analysis of Molecular Adaptation in Abalone Sperm Lysin Reveals Variable Selective Pressures Among Lineages and Sites. <i>Molecular Biology and Evolution</i> , 2000, 17, 1446-1455.	8.9	224
5	Pervasive Adaptive Evolution in Primate Seminal Proteins. <i>PLoS Genetics</i> , 2005, 1, e35.	3.5	155
6	Positive selection in the egg receptor for abalone sperm lysin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4639-4643.	7.1	145
7	Coevolution of Interacting Fertilization Proteins. <i>PLoS Genetics</i> , 2009, 5, e1000570.	3.5	125
8	Rapid evolution of reproductive proteins in abalone and <i>Drosophila</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 261-268.	4.0	112
9	From molecules to mating: Rapid evolution and biochemical studies of reproductive proteins. <i>Journal of Proteomics</i> , 2016, 135, 12-25.	2.4	101
10	Selection in the Rapid Evolution of Gamete Recognition Proteins in Marine Invertebrates. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a002931-a002931.	5.5	98
11	Polymorphism in Abalone Fertilization Proteins Is Consistent with the Neutral Evolution of the Egg's Receptor for Lysin (VERL) and Positive Darwinian Selection of Sperm Lysin. <i>Molecular Biology and Evolution</i> , 2001, 18, 376-383.	8.9	83
12	Full-length sequence of VERL, the egg vitelline envelope receptor for abalone sperm lysin. <i>Gene</i> , 2002, 288, 111-117.	2.2	66
13	ZP Domain Proteins in the Abalone Egg Coat Include a Paralog of VERL under Positive Selection That Binds Lysin and 18-kDa Sperm Proteins. <i>Molecular Biology and Evolution</i> , 2010, 27, 193-203.	8.9	56
14	Evidence of Amino Acid Diversityâ€“Enhancing Selection within Humans and among Primates at the Candidate Sperm-Receptor Gene PKDREJ. <i>American Journal of Human Genetics</i> , 2007, 81, 44-52.	6.2	48
15	Positive Selection in the Carbohydrate Recognition Domains of Sea Urchin Sperm Receptor for Egg Jelly (suREJ) Proteins. <i>Molecular Biology and Evolution</i> , 2005, 22, 533-541.	8.9	45
16	The Molecular Basis of Sex: Linking Yeast to Human. <i>Molecular Biology and Evolution</i> , 2011, 28, 1963-1966.	8.9	41
17	Liposome Fusion Induced by a Mr 18 000 Protein Localized to the Acrosomal Region of Acrosome-Reacted Abalone Spermatozoa. <i>Biochemistry</i> , 1995, 34, 14202-14208.	2.5	40
18	Detecting Coevolution through Allelic Association between Physically Unlinked Loci. <i>American Journal of Human Genetics</i> , 2010, 86, 674-685.	6.2	34

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19	Detecting coevolution in mammalian sperm-egg fusion proteins. <i>Molecular Reproduction and Development</i> , 2014, 81, 531-538.	2.0	29
20	Mass spectrometry and next-generation sequencing reveal an abundant and rapidly evolving abalone sperm protein. <i>Molecular Reproduction and Development</i> , 2013, 80, 460-465.	2.0	24
21	The œZP domain is not one, but likely two independent domains. <i>Molecular Reproduction and Development</i> , 2017, 84, 284-285.	2.0	24
22	Duplicate Abalone Egg Coat Proteins Bind Sperm Lysin Similarly, but Evolve Oppositely, Consistent with Molecular Mimicry at Fertilization. <i>PLoS Genetics</i> , 2013, 9, e1003287.	3.5	19
23	Egg Coat Proteins Across Metazoan Evolution. <i>Current Topics in Developmental Biology</i> , 2018, 130, 443-488.	2.2	19
24	Molecular mechanisms and evolution of fertilization proteins. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2021, 336, 652-665.	1.3	18
25	Solution structure of sperm lysin yields novel insights into molecular dynamics of rapid protein evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1310-1315.	7.1	14
26	Indirect sexual selection drives rapid sperm protein evolution in abalone. <i>ELife</i> , 2019, 8, .	6.0	7
27	Proteomics support the threespine stickleback egg coat as a protective oocyte envelope. <i>Molecular Reproduction and Development</i> , 2021, 88, 500-515.	2.0	3
28	Domain Expansion and Functional Diversification in Vertebrate Reproductive Proteins. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	1
29	A conversation with Mariana Wolfner, newly inducted member of the National Academy of Sciences. <i>Molecular Reproduction and Development</i> , 2020, 87, 3-6.	2.0	0