

# Kelly L Walton

## List of Publications by Year in descending order

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46  
papers

2,070  
citations

279798

23  
h-index

243625

44  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting TGF- $\beta$ 2 Mediated SMAD Signaling for the Prevention of Fibrosis. <i>Frontiers in Pharmacology</i> , 2017, 8, 461.	3.5	393
2	Elevated expression of activins promotes muscle wasting and cachexia. <i>FASEB Journal</i> , 2014, 28, 1711-1723.	0.5	163
3	Prodomains regulate the synthesis, extracellular localisation and activity of TGF- $\beta$ 2 superfamily ligands. <i>Growth Factors</i> , 2011, 29, 174-186.	1.7	99
4	Two Distinct Regions of Latency-associated Peptide Coordinate Stability of the Latent Transforming Growth Factor- $\beta$ 1 Complex. <i>Journal of Biological Chemistry</i> , 2010, 285, 17029-17037.	3.4	96
5	Structural basis for potency differences between GDF8 and GDF11. <i>BMC Biology</i> , 2017, 15, 19.	3.8	90
6	Specific targeting of TGF- $\beta$ 2 family ligands demonstrates distinct roles in the regulation of muscle mass in health and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5266-E5275.	7.1	90
7	New insights into the mechanisms of activin action and inhibition. <i>Molecular and Cellular Endocrinology</i> , 2012, 359, 2-12.	3.2	81
8	Hormonal Regulation of Sertoli Cell Micro-RNAs at Spermiation. <i>Endocrinology</i> , 2011, 152, 1670-1683.	2.8	78
9	<i>Smad7</i> gene delivery prevents muscle wasting associated with cancer cachexia in mice. <i>Science Translational Medicine</i> , 2016, 8, 348ra98.	12.4	70
10	The angiotensin receptor blocker, Losartan, inhibits mammary tumor development and progression to invasive carcinoma. <i>Oncotarget</i> , 2017, 8, 18640-18656.	1.8	66
11	A Common Biosynthetic Pathway Governs the Dimerization and Secretion of Inhibin and Related Transforming Growth Factor $\beta$ 2 (TGF $\beta$ 2) Ligands. <i>Journal of Biological Chemistry</i> , 2009, 284, 9311-9320.	3.4	63
12	Differential Effects of IL6 and Activin A in the Development of Cancer-Associated Cachexia. <i>Cancer Research</i> , 2016, 76, 5372-5382.	0.9	62
13	Activin Signaling Regulates Sertoli Cell Differentiation and Function. <i>Endocrinology</i> , 2012, 153, 6065-6077.	2.8	61
14	The TGF- $\beta$ 2 Signalling Network in Muscle Development, Adaptation and Disease. <i>Advances in Experimental Medicine and Biology</i> , 2016, 900, 97-131.	1.6	56
15	Development of Novel Activin-Targeted Therapeutics. <i>Molecular Therapy</i> , 2015, 23, 434-444.	8.2	46
16	Suppression of Inhibin A Biological Activity by Alterations in the Binding Site for Betaglycan. <i>Journal of Biological Chemistry</i> , 2008, 283, 16743-16751.	3.4	42
17	New insights into the genetic basis of premature ovarian insufficiency: Novel causative variants and candidate genes revealed by genomic sequencing. <i>Maturitas</i> , 2020, 141, 9-19.	2.4	41
18	Activation of Latent Human GDF9 by a Single Residue Change (Gly391Arg) in the Mature Domain. <i>Endocrinology</i> , 2012, 153, 1301-1310.	2.8	40

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19	Inhibin B Is a More Potent Suppressor of Rat Follicle-Stimulating Hormone Release than Inhibin A in Vitro and in Vivo. <i>Endocrinology</i> , 2009, 150, 4784-4793.	2.8	38
20	BMP15 Mutations Associated With Primary Ovarian Insufficiency Reduce Expression, Activity, or Synergy With GDF9. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 1009-1019.	3.6	31
21	Molecular characterization of latent GDF8 reveals mechanisms of activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E866-E875.	7.1	30
22	Species Differences in the Expression and Activity of Bone Morphogenetic Protein 15. <i>Endocrinology</i> , 2013, 154, 888-899.	2.8	28
23	A variant of human growth differentiation factor-9 that improves oocyte developmental competence. <i>Journal of Biological Chemistry</i> , 2020, 295, 7981-7991.	3.4	28
24	HtrA3 as an Early Marker for Preeclampsia: Specific Monoclonal Antibodies and Sensitive High-Throughput Assays for Serum Screening. <i>PLoS ONE</i> , 2012, 7, e45956.	2.5	28
25	Structure of AMH bound to AMHR2 provides insight into a unique signaling pair in the TGF- $\beta$ family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	26
26	The Synthesis and Secretion of Inhibins. <i>Vitamins and Hormones</i> , 2011, 85, 149-184.	1.7	23
27	Generation of a Specific Activin Antagonist by Modification of the Activin A Propeptide. <i>Endocrinology</i> , 2011, 152, 3758-3768.	2.8	23
28	TGFBR3L is an inhibin B co-receptor that regulates female fertility. <i>Science Advances</i> , 2021, 7, eabl4391.	10.3	21
29	Serum Concentrations of Oocyte-Secreted Factors BMP15 and GDF9 During IVF and in Women With Reproductive Pathologies. <i>Endocrinology</i> , 2019, 160, 2298-2313.	2.8	19
30	Activin A-Induced Cachectic Wasting Is Attenuated by Systemic Delivery of Its Cognate Propeptide in Male Mice. <i>Endocrinology</i> , 2019, 160, 2417-2426.	2.8	17
31	Cumulin and FSH Cooperate to Regulate Inhibin B and Activin B Production by Human Granulosa-Lutein Cells In Vitro. <i>Endocrinology</i> , 2019, 160, 853-862.	2.8	17
32	Biological activity and in vivo half-life of pro-activin A in male rats. <i>Molecular and Cellular Endocrinology</i> , 2016, 422, 84-92.	3.2	14
33	Multiple Soluble TGF- $\beta$ Receptors in Addition to Soluble Endoglin Are Elevated in Preeclamptic Serum and They Synergistically Inhibit TGF- $\beta$ Signaling. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 3065-3074.	3.6	13
34	Germline Mutations of Inhibins in Early-Onset Ovarian Epithelial Tumors. <i>Human Mutation</i> , 2014, 35, 294-297.	2.5	11
35	Inhibin Biosynthesis and Activity Are Limited by a Prodomain-Derived Peptide. <i>Endocrinology</i> , 2015, 156, 3047-3057.	2.8	10
36	A Novel, More Efficient Approach to Generate Bioactive Inhibins. <i>Endocrinology</i> , 2016, 157, 2799-2809.	2.8	10

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37	2-Phenyl and 2-heterocyclic-4-(3-(pyridin-2-yl)-1H-pyrazol-4-yl)pyridines as inhibitors of TGF- $\beta$ 1 and activin A signalling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5642-5645.	2.2	8
38	Engineering the Ovarian Hormones Inhibin A and Inhibin B to Enhance Synthesis and Activity. <i>Endocrinology</i> , 2020, 161, .	2.8	8
39	Use of detergent-based buffers allows detection of precursor inhibin forms in an immunoassay format. <i>Molecular and Cellular Endocrinology</i> , 2013, 381, 106-114.	3.2	6
40	Development of a high-throughput assay for human proprotein convertase 5/6 for detecting uterine receptivity. <i>Analytical Biochemistry</i> , 2015, 475, 14-21.	2.4	5
41	TMEPAI/PMPEA1 Is a Positive Regulator of Skeletal Muscle Mass. <i>Frontiers in Physiology</i> , 2020, 11, 560225.	2.8	5
42	Inhibin Inactivation in Female Mice Leads to Elevated FSH Levels, Ovarian Overstimulation, and Pregnancy Loss. <i>Endocrinology</i> , 2022, 163, .	2.8	5
43	Identification of protein binding partners of ALK-5 kinase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 6496-6500.	3.0	2
44	Functional Characterization of Two New Variants in the Bone Morphogenetic Protein 7 Prodomain in Two Pairs of Monozygotic Twins With Hypospadias. <i>Journal of the Endocrine Society</i> , 2019, 3, 814-824.	0.2	2
45	Human INHBB Gene Variant (c.1079T>C;p.Met360Thr) Alters Testis Germ Cell Content, but Does Not Impact Fertility in Mice. <i>Endocrinology</i> , 2022, 163, .	2.8	2
46	Inhibin: To Betaglycan, or Not to Betaglycan. <i>Endocrinology</i> , 2019, 160, 341-342.	2.8	1