

# David M Olson

## List of Publications by Citations

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77  
papers

2,352  
citations

26  
h-index

47  
g-index

119  
ext. papers

2,847  
ext. citations

4.7  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
77	Inflammatory processes in preterm and term parturition. <i>Journal of Reproductive Immunology</i> , <b>2008</b> , 79, 50-7	4.2	349
76	The role of prostaglandins in the initiation of parturition. <i>Best Practice and Research in Clinical Obstetrics and Gynaecology</i> , <b>2003</b> , 17, 717-30	4.6	180
75	Maternal stress induces epigenetic signatures of psychiatric and neurological diseases in the offspring. <i>PLoS ONE</i> , <b>2013</b> , 8, e56967	3.7	139
74	Prostaglandin endoperoxide-H synthase-1 and -2 messenger ribonucleic acid levels in human amnion with spontaneous labor onset. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>1995</b> , 80, 517-23	5.6	99
73	Ancestral exposure to stress epigenetically programs preterm birth risk and adverse maternal and newborn outcomes. <i>BMC Medicine</i> , <b>2014</b> , 12, 121	11.4	96
72	Interleukin-6 is an essential determinant of on-time parturition in the mouse. <i>Endocrinology</i> , <b>2010</b> , 151, 3996-4006	4.8	95
71	Adverse childhood experiences are associated with spontaneous preterm birth: a case-control study. <i>BMC Medicine</i> , <b>2015</b> , 13, 124	11.4	77
70	Novel Noncompetitive IL-1 Receptor-Biased Ligand Prevents Infection- and Inflammation-Induced Preterm Birth. <i>Journal of Immunology</i> , <b>2015</b> , 195, 3402-15	5.3	76
69	The role of nitric oxide and metalloproteinases in the pathogenesis of hyperoxia-induced lung injury in newborn rats. <i>British Journal of Pharmacology</i> , <b>1998</b> , 125, 1455-62	8.6	76
68	Expression of myometrial activation and stimulation genes in a mouse model of preterm labor: myometrial activation, stimulation, and preterm labor. <i>Endocrinology</i> , <b>2000</b> , 141, 1718-28	4.8	75
67	Antenatal Suppression of IL-1 Protects against Inflammation-Induced Fetal Injury and Improves Neonatal and Developmental Outcomes in Mice. <i>Journal of Immunology</i> , <b>2017</b> , 198, 2047-2062	5.3	71
66	Allostatic Load and Preterm Birth. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 29856-74	6.3	63
65	Prostaglandin endoperoxide H synthase (PGHS) activity and PGHS-1 and -2 messenger ribonucleic acid abundance in human chorion throughout gestation and with preterm labor. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>1998</b> , 83, 1358-67	5.6	54
64	A critical role of interleukin-1 in preterm labor. <i>Cytokine and Growth Factor Reviews</i> , <b>2016</b> , 28, 37-51	17.9	48
63	Novel Toll-like receptor-4 antagonist (+)-naloxone protects mice from inflammation-induced preterm birth. <i>Scientific Reports</i> , <b>2016</b> , 6, 36112	4.9	40
62	Mouse placental prostaglandins are associated with uterine activation and the timing of birth. <i>Biology of Reproduction</i> , <b>2003</b> , 68, 579-87	3.9	40
61	Toll-Like Receptor 4 Is an Essential Upstream Regulator of On-Time Parturition and Perinatal Viability in Mice. <i>Endocrinology</i> , <b>2015</b> , 156, 3828-41	4.8	38

60	Maternal Whole Blood Gene Expression at 18 and 28 Weeks of Gestation Associated with Spontaneous Preterm Birth in Asymptomatic Women. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155191	3.7	36
59	Interleukin-6 controls uterine Th9 cells and CD8(+) T regulatory cells to accelerate parturition in mice. <i>Immunology and Cell Biology</i> , <b>2016</b> , 94, 79-89	5	35
58	The interleukin 1beta-induced expression of human prostaglandin F2alpha receptor messenger RNA in human myometrial-derived ULTR cells requires the transcription factor, NFkappaB. <i>Biology of Reproduction</i> , <b>2006</b> , 75, 697-704	3.9	35
57	Development and validation of primary human myometrial cell culture models to study pregnancy and labour. <i>BMC Pregnancy and Childbirth</i> , <b>2013</b> , 13 Suppl 1, S7	3.2	34
56	Lactate produced during labor modulates uterine inflammation via GPR81(HCA). <i>American Journal of Obstetrics and Gynecology</i> , <b>2017</b> , 216, 60.e1-60.e17	6.4	34
55	Timing of hyperoxic exposure during alveolarization influences damage mediated by leukotrienes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2001</b> , 281, L799-806	5.8	32
54	Prostaglandin endoperoxide H synthase mRNA expression in the human amnion and decidua during pregnancy and in the amnion at preterm labour. <i>Molecular Human Reproduction</i> , <b>1999</b> , 5, 182-7	4.4	31
53	Delay of preterm birth in sheep by THG113.31, a prostaglandin F2alpha receptor antagonist. <i>American Journal of Obstetrics and Gynecology</i> , <b>2005</b> , 193, 256-66	6.4	29
52	PGF2 modulates the output of chemokines and pro-inflammatory cytokines in myometrial cells from term pregnant women through divergent signaling pathways. <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 603-14	4.4	27
51	Prostaglandin endoperoxide H synthase-1 and -2 mRNA levels and enzyme activity in human decidua at term labor. <i>Journal of the Society for Gynecologic Investigation</i> , <b>1998</b> , 5, 13-20		26
50	Ancestral experience as a game changer in stress vulnerability and disease outcomes. <i>BioEssays</i> , <b>2015</b> , 37, 602-11	4.1	25
49	Altered brain morphology and functional connectivity reflect a vulnerable affective state after cumulative multigenerational stress in rats. <i>Neuroscience</i> , <b>2016</b> , 330, 79-89	3.9	23
48	Does a maternal history of abuse before pregnancy affect pregnancy outcomes? A systematic review with meta-analysis. <i>BMC Pregnancy and Childbirth</i> , <b>2018</b> , 18, 404	3.2	21
47	Effects of PGF2 on the expression of uterine activation proteins in pregnant human myometrial cells from upper and lower segment. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2013</b> , 98, 2975-83 <sup>5.6</sup>		20
46	Emerging tocolytics: challenges in designing and testing drugs to delay preterm delivery and prolong pregnancy. <i>Expert Opinion on Emerging Drugs</i> , <b>2008</b> , 13, 695-707	3.7	20
45	The promise of prostaglandins: have they fulfilled their potential as therapeutic targets for the delay of preterm birth?. <i>Journal of the Society for Gynecologic Investigation</i> , <b>2005</b> , 12, 466-78		19
44	Lack of Social Support Raises Stress Vulnerability in Rats with a History of Ancestral Stress. <i>Scientific Reports</i> , <b>2017</b> , 7, 5277	4.9	18
43	Antenatal IL-1-dependent inflammation persists postnatally and causes retinal and sub-retinal vasculopathy in progeny. <i>Scientific Reports</i> , <b>2018</b> , 8, 11875	4.9	17

42	Interleukin (IL)-1 in rat parturition: IL-1 receptors 1 and 2 and accessory proteins abundance in pregnant rat uterus at term - regulation by progesterone. <i>Physiological Reports</i> , <b>2016</b> , 4, e12866	2.6	14
41	Prostaglandin-endoperoxide H synthase-2 expression and activity increases with term labor in human chorion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1997</b> , 272, E832-40	6	14
40	Hydrogen Sulfide Delays LPS-Induced Preterm Birth in Mice via Anti-Inflammatory Pathways. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152838	3.7	14
39	Prenatal two-hit stress affects maternal and offspring pregnancy outcomes and uterine gene expression in rats: match or mismatch?. <i>Biology of Reproduction</i> , <b>2019</b> , 100, 195-207	3.9	13
38	Recent Canadian efforts to develop population-level pregnancy intervention studies to mitigate effects of natural disasters and other tragedies. <i>Journal of Developmental Origins of Health and Disease</i> , <b>2019</b> , 10, 108-114	2.4	11
37	Prenatal Maternal Stress Causes Preterm Birth and Affects Neonatal Adaptive Immunity in Mice. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 254	8.4	11
36	Cooperative effects of sequential PGF2 $\alpha$ and IL-1 $\beta$ on IL-6 and COX-2 expression in human myometrial cells. <i>Biology of Reproduction</i> , <b>2019</b> , 100, 1370-1385	3.9	10
35	DNA methylation-associated repression of MEST/PEG1 expression contributes to the invasion of extravillous trophoblast cells. <i>Placenta</i> , <b>2016</b> , 46, 92-101	3.4	10
34	Cloning and characterization of the promoter region of the human prostaglandin F2 $\alpha$ receptor gene. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>2004</b> , 1676, 193-202		9
33	Progesterone and Prostaglandin H Synthase-2 Involvement in Alcohol-Induced Preterm Birth in Mice. <i>Alcoholism: Clinical and Experimental Research</i> , <b>1999</b> , 23, 1793-1800	3.7	9
32	Racial disparities in pregnancy outcomes: genetics, epigenetics, and allostatic load. <i>Current Opinion in Physiology</i> , <b>2020</b> , 13, 155-165	2.6	9
31	IL-27 induces a pro-inflammatory response in human fetal membranes mediating preterm birth. <i>International Immunopharmacology</i> , <b>2017</b> , 50, 361-369	5.8	8
30	Prostaglandin Endoperoxide H Synthase-1 and -2 mRNA Levels and Enzyme Activity in Human Decidua at Term Labor. <i>Journal of the Society for Gynecologic Investigation</i> , <b>1998</b> , 5, 13-20		8
29	Climate change is a major stressor causing poor pregnancy outcomes and child development. <i>F1000Research</i> , <b>2020</b> , 9,	3.6	8
28	Oncoplastic and reconstructive breast surgery in Canada: breaking new ground in general surgical training. <i>Canadian Journal of Surgery</i> , <b>2018</b> , 61, 294-299	2	8
27	Inflammatory Amplification: A Central Tenet of Uterine Transition for Labor. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2021</b> , 11, 660983	5.9	8
26	Multiple prenatal stresses increase sexual dimorphism in adult offspring behavior. <i>Psychoneuroendocrinology</i> , <b>2019</b> , 107, 251-260	5	7
25	Uterotonic Neuromedin U Receptor 2 and Its Ligands Are Upregulated by Inflammation in Mice and Humans, and Elicit Preterm Birth. <i>Biology of Reproduction</i> , <b>2016</b> , 95, 72	3.9	7

24	The importance of impermeant support in small bowel preservation: a morphologic, metabolic and functional study. <i>American Journal of Transplantation</i> , <b>2001</b> , 1, 236-42	8.7	7
23	Maternal and fetal intrauterine tissue crosstalk promotes proinflammatory amplification and uterine transition $\square$ <i>Biology of Reproduction</i> , <b>2019</b> , 100, 783-797	3.9	7
22	IFPA meeting 2016 workshop report III: Decidua-trophoblast interactions; trophoblast implantation and invasion; immunology at the maternal-fetal interface; placental inflammation. <i>Placenta</i> , <b>2017</b> , 60 Suppl 1, S15-S19	3.4	6
21	Targeting Toll-like receptor-4 to tackle preterm birth and fetal inflammatory injury. <i>Clinical and Translational Immunology</i> , <b>2020</b> , 9, e1121	6.8	6
20	The rat cumulative allostatic load measure (rCALM): a new translational assessment of the burden of stress. <i>Environmental Epigenetics</i> , <b>2019</b> , 5, dvz005	2.4	5
19	Pregnant human peripheral leukocyte migration during several late pregnancy clinical conditions: a cross-sectional observational study. <i>BMC Pregnancy and Childbirth</i> , <b>2017</b> , 17, 16	3.2	5
18	Two novel genetic variants in the mineralocorticoid receptor gene associated with spontaneous preterm birth. <i>BMC Medical Genetics</i> , <b>2015</b> , 16, 59	2.1	4
17	Improving Wait Times and Patient Experience Through Implementation of a Provincial Expedited Diagnostic Pathway for BI-RADS 5 Breast Lesions. <i>Annals of Surgical Oncology</i> , <b>2019</b> , 26, 3361-3367	3.1	4
16	Maternal Mental Health after a Wildfire: Effects of Social Support in the Fort McMurray Wood Buffalo Study. <i>Canadian Journal of Psychiatry</i> , <b>2021</b> , 66, 710-718	4.8	4
15	The determinant role of IL-6 in the establishment of inflammation leading to spontaneous preterm birth. <i>Cytokine and Growth Factor Reviews</i> , <b>2021</b> , 59, 118-130	17.9	4
14	Landscape of Preterm Birth Therapeutics and a Path Forward. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	4
13	Blunted Cardiac AMPK Response is Associated with Susceptibility to Ischemia/Reperfusion in Male Offspring of Gestational Diabetic Rats. <i>Cellular Physiology and Biochemistry</i> , <b>2019</b> , 52, 1103-1116	3.9	3
12	An allosteric interleukin-1 receptor modulator mitigates inflammation and photoreceptor toxicity in a model of retinal degeneration. <i>Journal of Neuroinflammation</i> , <b>2020</b> , 17, 359	10.1	3
11	Preterm Birth and Neonatal Injuries: Importance of Interleukin-1 and Potential of Interleukin-1 Receptor Antagonists. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 6132-6141	3.3	2
10	Unexpected effects of expressive writing on post-disaster distress in the Hurricane Harvey Study: a randomized controlled trial in perinatal women. <i>Psychological Medicine</i> , <b>2021</b> , 1-9	6.9	2
9	Screening in the Prenatal Period for Intimate Partner Violence and History of Abuse: A Survey of Edmonton Obstetrician/Gynaecologists. <i>Journal of Obstetrics and Gynaecology Canada</i> , <b>2019</b> , 41, 38-45	1.3	2
8	Effect of developmental age and hyperoxia exposure on kinase and phosphatase activities in newborn rat lungs. <i>Experimental Lung Research</i> , <b>1998</b> , 24, 339-53	2.3	1
7	Prostaglandin endoperoxide H synthase mRNA expression in the fetal membranes correlates with fetal fibronectin concentration in the cervico-vaginal fluids at term: evidence of enzyme induction before the onset of labour. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , <b>2000</b> , 107, 267-73	3.7	1

6	Hyperoxia regulates leukotriene (LT) receptor mRNA expression in the developing rat lung. <i>FASEB Journal</i> , <b>2006</b> , 20, A1442	0.9	1
5	The Fort McMurray Mommy Baby Study: A Protocol to Reduce Maternal Stress Due to the 2016 Fort McMurray Wood Buffalo, Alberta, Canada Wildfire. <i>Frontiers in Public Health</i> , <b>2021</b> , 9, 601375	6	1
4	Contemporary Environmental Stressors and Adverse Pregnancy Outcomes: OPERA <b>2021</b> , 155-168		0
3	Direct administration of the non-competitive interleukin-1 receptor antagonist rytvela transiently reduced intrauterine inflammation in an extremely preterm sheep model of chorioamnionitis. <i>PLoS ONE</i> , <b>2021</b> , 16, e0257847	3.7	0
2	Enhancing Resilience in Canadian Military Families and Communities: A Qualitative Analysis of the Reaching In/Reaching Out and Bounce Back and Thrive! Resiliency Skills Training Programs. <i>Frontiers in Public Health</i> , <b>2021</b> , 9, 662313	6	
1	Resilient Parents/Resilient Communities: A Pilot Study Trialing the Bounce Back and Thrive! Resilience-Training Program With Military Families. <i>Frontiers in Psychology</i> , <b>2021</b> , 12, 651522	3.4	