Boris Novakovic

List of Publications by Year
in descending order

76 papers	6,757 citations	109321 35 h-index	71685 76 g-index
82 all docs	82 docs citations	82 times ranked	9704 citing authors

#	Article	IF	Citations
1	BCG Vaccination Protects against Experimental Viral Infection in Humans through the Induction of Cytokines Associated with Trained Immunity. Cell Host and Microbe, 2018, 23, 89-100.e5.	11.0	860
2	Glutaminolysis and Fumarate Accumulation Integrate Immunometabolic and Epigenetic Programs in Trained Immunity. Cell Metabolism, 2016, 24, 807-819.	16.2	584
3	Metabolic Induction of Trained Immunity through the Mevalonate Pathway. Cell, 2018, 172, 135-146.e9.	28.9	485
4	Î²-Glucan Reverses the Epigenetic State of LPS-Induced Immunological Tolerance. Cell, 2016, 167, 1354-1368.e14.	28.9	467
5	DNA methylation analysis of multiple tissues from newborn twins reveals both genetic and intrauterine components to variation in the human neonatal epigenome. Human Molecular Genetics, 2010, 19, 4176-4188.	2.9	296
6	Trained immunity, tolerance, priming and differentiation: distinct immunological processes. Nature Immunology, 2021, 22, 2-6.	14.5	274
7	Neonatal DNA methylation profile in human twins is specified by a complex interplay between intrauterine environmental and genetic factors, subject to tissue-specific influence. Genome Research, 2012, 22, 1395-1406.	5.5	246
8	The Itaconate Pathway Is a Central Regulatory Node Linking Innate Immune Tolerance and Trained Immunity. Cell Metabolism, 2019, 29, 211-220.e5.	16.2	232
9	Placenta-specific Methylation of the Vitamin D 24-Hydroxylase Gene. Journal of Biological Chemistry, 2009, 284, 14838-14848.	3.4	218
10	Intrauterine programming of obesity and type 2 diabetes. Diabetologia, 2019, 62, 1789-1801.	6.3	167
11	Evidence for widespread changes in promoter methylation profile in human placenta in response to increasing gestational age and environmental/stochastic factors. BMC Genomics, 2011, 12, 529.	2.8	164
12	BCG Vaccination Induces Long-Term Functional Reprogramming of Human Neutrophils. Cell Reports, 2020, 33, 108387.	6.4	152
13	Î²-Glucan Induces Protective Trained Immunity against Mycobacterium tuberculosis Infection: A Key Role for IL-1. Cell Reports, 2020, 31, 107634.	6.4	147
14	Treatment with Statins Does Not Revert Trained Immunity in Patients with Familial Hypercholesterolemia. Cell Metabolism, 2019, 30, 1-2.	16.2	130
15	Sexual Dimorphism in Innate Immunity: The Role of Sex Hormones and Epigenetics. Frontiers in Immunology, 2020, 11, 604000.	4.8	124
16	Postnatal stability, tissue, and time specific effects ofAHRRmethylation change in response to maternal smoking in pregnancy. Epigenetics, 2014, 9, 377-386.	2.7	118
17	Uric acid priming in human monocytes is driven by the AKTâ€“PRAS40 autophagy pathway. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5485-5490.	7.1	114
18	The ever growing complexity of placental epigenetics â€“ Role in adverse pregnancy outcomes and fetal programming. Placenta, 2012, 33, 959-970.	1.5	107

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19	Circadian rhythm influences induction of trained immunity by BCG vaccination. Journal of Clinical Investigation, 2020, 130, 5603-5617.	8.2	95
20	Epigenetic regulation of human placental function and pregnancy outcome: considerations for causal inference. American Journal of Obstetrics and Gynecology, 2015, 213, S182-S196.	1.3	94
21	Assisted reproductive technologies are associated with limited epigenetic variation at birth that largely resolves by adulthood. Nature Communications, 2019, 10, 3922.	12.8	94
22	Specific tumour-associated methylation in normal human term placenta and first-trimester cytotrophoblasts. Molecular Human Reproduction, 2008, 14, 547-554.	2.8	84
23	DNA Methylation-mediated Down-regulation of DNA Methyltransferase-1 (DNMT1) Is Coincident with, but Not Essential for, Global Hypomethylation in Human Placenta. Journal of Biological Chemistry, 2010, 285, 9583-9593.	3.4	83
24	Wide-ranging DNA methylation differences of primary trophoblast cell populations and derived cell lines: implications and opportunities for understanding trophoblast functionâ€. Molecular Human Reproduction, 2011, 17, 344-353.	2.8	76
25	Methylation of the adenomatous polyposis coli (APC) gene in human placenta and hypermethylation in choriocarcinoma cells. Cancer Letters, 2008, 268, 56-62.	7.2	66
26	The effects of maternal anxiety during pregnancy on IGF2/H19 methylation in cord blood. Translational Psychiatry, 2016, 6, e765-e765.	4.8	61
27	Maternal vitamin D predominates over genetic factors in determining neonatal circulating vitamin D concentrations. American Journal of Clinical Nutrition, 2012, 96, 188-195.	4.7	59
28	Rewiring of glucose metabolism defines trained immunity induced by oxidized low-density lipoprotein. Journal of Molecular Medicine, 2020, 98, 819-831.	3.9	59
29	Epigenetics as the mediator of fetal programming of adult onset disease: what is the evidence?. Acta Obstetricia Et Gynecologica Scandinavica, 2014, 93, 1090-1098.	2.8	55
30	Glucose as a fetal nutrient: dynamic regulation of several glucose transporter genes by DNA methylation in the human placenta across gestation. Journal of Nutritional Biochemistry, 2013, 24, 282-288.	4.2	50
31	The Peri/Postnatal Epigenetic Twins Study (PETS). Twin Research and Human Genetics, 2013, 16, 13-20.	0.6	50
32	Cohort Profile: The Peri/post-natal Epigenetic Twins Study. International Journal of Epidemiology, 2012, 41, 55-61.	1.9	48
33	Diabetes in pregnancy and epigenetic mechanismsâ€"how the first 9 months from conception might affect the child's epigenome and later risk of disease. Lancet Diabetes and Endocrinology,the, 2019, 7, 796-806.	11.4	46
34	Association of maternal and nutrient supply line factors with DNA methylation at the imprintedIGF2/H19locus in multiple tissues of newborn twins. Epigenetics, 2013, 8, 1069-1079.	2.7	40
35	Placental pseudo-malignancy from a DNA methylation perspective: unanswered questions and future directions. Frontiers in Genetics, 2013, 4, 285.	2.3	40
36	Trained innate immunity, long-lasting epigenetic modulation, and skewed myelopoiesis by heme. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	40

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37	Human placental methylome in the interplay of adverse placental health, environmental exposure, and pregnancy outcome. PLoS Genetics, 2019, 15, e1008236.	3.5	38
38	Inhibition of Histone Demethylases LSD1 and UTX Regulates ERÎ± Signaling in Breast Cancer. Cancers, 2019, 11, 2027.	3.7	34
39	Human fetoplacental arterial and venous endothelial cells are differentially programmed by gestational diabetes mellitus, resulting in cell-specific barrier function changes. Diabetologia, 2018, 61, 2398-2411.	6.3	33
40	The emerging role of epigenetics in the immune response to vaccination and infection: a systematic review. Epigenetics, 2020, 15, 555-593.	2.7	33
41	Distinct Patterns of Gene-Specific Methylation in Mammalian Placentas: Implications for Placental Evolution and Function. Placenta, 2010, 31, 259-268.	1.5	30
42	DNA methylation profiling highlights the unique nature of the human placental epigenome. Epigenomics, 2010, 2, 627-638.	2.1	29
43	Assessing global and gene specific DNA methylation in anorexia nervosa: A pilot study. International Journal of Eating Disorders, 2014, 47, 206-210.	4.0	28
44	DNA methylation mediated up-regulation ofTERRAnon-coding RNA is coincident with elongated telomeres in the human placenta. Molecular Human Reproduction, 2016, 22, 791-799.	2.8	28
45	The role of Tollâ€like receptor 10 in modulation of trained immunity. Immunology, 2020, 159, 289-297.	4.4	28
46	Extensive epigenomic integration of the glucocorticoid response in primary human monocytes and in vitro derived macrophages. Scientific Reports, 2019, 9, 2772.	3.3	27
47	Lysine methyltransferase G9a is an important modulator of trained immunity. Clinical and Translational Immunology, 2021, 10, e1253.	3.8	25
48	An integrative genomics approach identifies KDM4 as a modulator of trained immunity. European Journal of Immunology, 2022, 52, 431-446.	2.9	22
49	Variable DAXX gene methylation is a common feature of placental trophoblast differentiation, preeclampsia, and response to hypoxia. FASEB Journal, 2017, 31, 2380-2392.	0.5	21
50	A High-Fat Diet Increases Influenza A Virus-Associated Cardiovascular Damage. Journal of Infectious Diseases, 2020, 222, 820-831.	4.0	21
51	Reduced placental FOXP3 associated with subsequent infant allergic disease. Journal of Allergy and Clinical Immunology, 2011, 128, 886-887.e5.	2.9	20
52	DNA methylation of amino acid transporter genes in the human placenta. Placenta, 2017, 60, 64-73.	1.5	20
53	Glutathione Metabolism Contributes to the Induction of Trained Immunity. Cells, 2021, 10, 971.	4.1	20
54	The importance of the intrauterine environment in shaping the human neonatal epigenome. Epigenomics, 2013, 5, 1-4.	2.1	19

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55	Human active X-specific DNA methylation events showing stability across time and tissues. European Journal of Human Genetics, 2014, 22, 1376-1381.	2.8	19
56	Increased methylation and decreased expression of homeobox genes TLX1, HOXA10 and DLX5 in human placenta are associated with trophoblast differentiation. Scientific Reports, 2017, 7, 4523.	3.3	18
57	A Potential Role for Epigenetically Mediated Trained Immunity in Food Allergy. IScience, 2020, 23, 101171.	4.1	18
58	Low Birth Weight in MZ Twins Discordant for Birth Weight is Associated with Shorter Telomere Length and lower IQ, but not Anxiety/Depression in Later Life. Twin Research and Human Genetics, 2015, 18, 198-209.	0.6	17
59	A possible role for mitochondrial-derived peptides humanin and MOTS-c in patients with Q fever fatigue syndrome and chronic fatigue syndrome. Journal of Translational Medicine, 2019, 17, 157.	4.4	17
60	Association of medically assisted reproduction with offspring cord blood DNA methylation across cohorts. Human Reproduction, 2021, 36, 2403-2413.	0.9	17
61	Gender-affirming hormone therapy induces specific DNA methylation changes in blood. Clinical Epigenetics, 2022, 14, 24.	4.1	17
62	Early-life determinants of hypoxia-inducible factor 3A geneÂ(HIF3A) methylation: a birth cohort study. Clinical Epigenetics, 2019, 11, 96.	4.1	15
63	Sex matters: XIST and DDX3Y gene expression as a tool to determine fetal sex in human first trimester placenta. Placenta, 2020, 97, 68-70.	1.5	13
64	Epigenetic programming underpins Bâ€cell dysfunction in peanut and multiâ€food allergy. Clinical and Translational Immunology, 2021, 10, e1324.	3.8	13
65	I Remember You: Epigenetic Priming in Epithelial Stem Cells. Immunity, 2017, 47, 1019-1021.	14.3	12
66	Maternal Obesity Alters Placental Cell Cycle Regulators in the First Trimester of Human Pregnancy: New Insights for BRCA1. International Journal of Molecular Sciences, 2020, 21, 468.	4.1	12
67	Hyper-Inflammatory Monocyte Activation Following Endotoxin Exposure in Food Allergic Infants. Frontiers in Immunology, 2020, 11, 567981.	4.8	11
68	The Heterologous Effects of Bacillus Calmette-GuÃ©rin (BCG) Vaccine and Trained Innate Immunity. , 2018, , 71-90.		8
69	oxLDL-Induced Trained Immunity Is Dependent on Mitochondrial Metabolic Reprogramming. Immunometabolism, 2021, 3, e210025.	6.0	7
70	Long-Lasting Transcriptional Changes in Circulating Monocytes of Acute Q Fever Patients. Open Forum Infectious Diseases, 2019, 6, .	0.9	5
71	Determinants of placental leptin receptor gene expression and association with measures at birth. Placenta, 2020, 100, 89-95.	1.5	5
72	Micromanaging human placental function: differential microRNA expression in feto-placental endothelial cells of gestational diabetes pregnancies. Clinical Science, 2019, 133, 315-319.	4.3	4

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73	Transcriptomic Remodelling of Fetal Endothelial Cells During Establishment of Inflammatory Memory. Frontiers in Immunology, 2021, 12, 757393.	4.8	3
74	We Can Still Be Friends: IFN-Î³ Breaks Up Macrophage Enhancers. Immunity, 2017, 47, 209-211.	14.3	2
75	Triiodothyronine (T3) Induces Limited Transcriptional and DNA Methylation Reprogramming in Human Monocytes. Biomedicines, 2022, 10, 608.	3.2	2
76	Innate Immune Memory in Paediatric Food Allergy. Journal of Allergy and Clinical Immunology, 2019, 143, AB431.	2.9	0