

# Ivan Ivanov

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,022  
citations

430874

18  
h-index

434195

31  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1482  
citing authors

#	ARTICLE	IF	CITATIONS
1	n -3 Polyunsaturated fatty acids modulate carcinogen-directed non-coding microRNA signatures in rat colon. <i>Carcinogenesis</i> , 2009, 30, 2077-2084.	2.8	158
2	Noninvasive stool-based detection of infant gastrointestinal development using gene expression profiles from exfoliated epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, G582-G589.	3.4	78
3	Integrated microRNA and mRNA expression profiling in a rat colon carcinogenesis model: effect of a chemo-protective diet. <i>Physiological Genomics</i> , 2011, 43, 640-654.	2.3	70
4	Comparison of anti-inflammatory mechanisms of mango ( <i>Mangifera Indica</i> L.) and pomegranate ( <i>Punica Granatum</i> L.) in a preclinical model of colitis. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 1912-1923.	3.3	64
5	Dietary fish oil and curcumin combine to modulate colonic cytokinetics and gene expression in dextran sodium sulphate-treated mice. <i>British Journal of Nutrition</i> , 2011, 106, 519-529.	2.3	54
6	Red raspberry decreases heart biomarkers of cardiac remodeling associated with oxidative and inflammatory stress in obese diabetic db/db mice. <i>Food and Function</i> , 2016, 7, 4944-4955.	4.6	38
7	Intervention in gene regulatory networks via greedy control policies based on long-run behavior. <i>BMC Systems Biology</i> , 2009, 3, 61.	3.0	37
8	Influence of whole-wheat consumption on fecal microbial community structure of obese diabetic mice. <i>PeerJ</i> , 2016, 4, e1702.	2.0	34
9	Noninvasive molecular fingerprinting of host-microbiome interactions in neonates. <i>FEBS Letters</i> , 2014, 588, 4112-4119.	2.8	32
10	Dynamics Preserving Size Reduction Mappings for Probabilistic Boolean Networks. <i>IEEE Transactions on Signal Processing</i> , 2007, 55, 2310-2322.	5.3	30
11	State reduction for network intervention in probabilistic Boolean networks. <i>Bioinformatics</i> , 2010, 26, 3098-3104.	4.1	30
12	Loss of aryl hydrocarbon receptor potentiates FoxM1 signaling to enhance self-renewal of colonic stem and progenitor cells. <i>EMBO Journal</i> , 2020, 39, e104319.	7.8	30
13	Colonic mucosal and exfoliome transcriptomic profiling and fecal microbiome response to a flaxseed lignan extract intervention in humans. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 377-390.	4.7	29
14	Loss of Aryl Hydrocarbon Receptor Promotes Colon Tumorigenesis in <i>ApcS580/+; KrasG12D/+</i> Mice. <i>Molecular Cancer Research</i> , 2021, 19, 771-783.	3.4	26
15	Effects of high-fat diet and intestinal aryl hydrocarbon receptor deletion on colon carcinogenesis. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, G451-G463.	3.4	23
16	Reduction Mappings between Probabilistic Boolean Networks. <i>Eurasip Journal on Advances in Signal Processing</i> , 2004, 2004, 1.	1.7	22
17	MCMC implementation of the optimal Bayesian classifier for non-Gaussian models: model-based RNA-Seq classification. <i>BMC Bioinformatics</i> , 2014, 15, 401.	2.6	22
18	Comparative effects of diet and carcinogen on microRNA expression in the stem cell niche of the mouse colonic crypt. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 121-134.	3.8	20

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19	The non-invasive exfoliated transcriptome (exfoliome) reflects the tissue-level transcriptome in a mouse model of NSAID enteropathy. <i>Scientific Reports</i> , 2017, 7, 14687.	3.3	20
20	Enhancer of Zeste 2 Polycomb Repressive Complex 2 Subunit Is Required for Uterine Epithelial Integrity. <i>American Journal of Pathology</i> , 2019, 189, 1212-1225.	3.8	20
21	Genome-wide analysis of the rat colon reveals proximal-distal differences in histone modifications and proto-oncogene expression. <i>Physiological Genomics</i> , 2013, 45, 1229-1243.	2.3	19
22	A four-compartment compartmental model to assess net whole body protein breakdown using a pulse of phenylalanine and tyrosine stable isotopes in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E63-E74.	3.5	17
23	<sc>D</sc>ietary fat and fiber interact to uniquely modify global histone post-translational epigenetic programming in a rat colon cancer progression model. <i>International Journal of Cancer</i> , 2018, 143, 1402-1415.	5.1	15
24	Comprehensive site-specific whole genome profiling of stromal and epithelial colonic gene signatures in human sigmoid colon and rectal tissue. <i>Physiological Genomics</i> , 2016, 48, 651-659.	2.3	12
25	Transforming growth factor beta signaling and decidual integrity in mice. <i>Biology of Reproduction</i> , 2020, 103, 1186-1198.	2.7	11
26	Antitumor potential of dark sweet cherry sweet ( <i>Prunus avium</i> ) phenolics in suppressing xenograft tumor growth of MDA-MB-453 breast cancer cells. <i>Journal of Nutritional Biochemistry</i> , 2020, 84, 108437.	4.2	10
27	PCAN: Probabilistic Correlation Analysis of Two Non-Normal Data Sets. <i>Biometrics</i> , 2016, 72, 1358-1368.	1.4	7
28	Chronic binge alcohol consumption during pregnancy alters rat maternal uterine artery pressure response. <i>Alcohol</i> , 2016, 56, 59-64.	1.7	7
29	Assessment of histone tail modifications and transcriptional profiling during colon cancer progression reveals a global decrease in H3K4me3 activity. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1392-1402.	3.8	7
30	Assessing the Multivariate Relationship between the Human Infant Intestinal Exfoliated Cell Transcriptome (Exfoliome) and Microbiome in Response to Diet. <i>Microorganisms</i> , 2020, 8, 2032.	3.6	7
31	Boolean Models of Genomic Regulatory Networks: Reduction Mappings, Inference, and External Control. <i>Current Genomics</i> , 2009, 10, 375-387.	1.6	6
32	Single-cell RNA Sequencing Reveals How the Aryl Hydrocarbon Receptor Shapes Cellular Differentiation Potency in the Mouse Colon. <i>Cancer Prevention Research</i> , 2022, 15, 17-28.	1.5	6
33	Personalized Nutrition Using Microbial Metabolite Phenotype to Stratify Participants and Non-Invasive Host Exfoliomics Reveal the Effects of Flaxseed Lignan Supplementation in a Placebo-Controlled Crossover Trial. <i>Nutrients</i> , 2022, 14, 2377.	4.1	6
34	EZH2 and Endometrial Cancer Development: Insights from a Mouse Model. <i>Cells</i> , 2022, 11, 909.	4.1	5
35	Optimal control of gene regulatory networks with uncertain intervention effects. , 2013, , .		4
36	Expression of bovine genes associated with local and systemic immune response to infestation with the Lone Star tick, <i>Amblyomma americanum</i> . <i>Ticks and Tick-borne Diseases</i> , 2014, 5, 676-688.	2.7	4

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37	Data describing the effects of dietary bioactive agents on colonic stem cell microRNA and mRNA expression. <i>Data in Brief</i> , 2016, 6, 398-404.	1.0	4
38	Quantifying the notions of canalizing and master genes in a gene regulatory network—a Boolean network modeling perspective. <i>Bioinformatics</i> , 2019, 35, 643-649.	4.1	4
39	Establishment of a multicomponent dietary bioactive human equivalent dose to delete damaged Lgr5+ stem cells using a mouse colon tumor initiation model. <i>European Journal of Cancer Prevention</i> , 2019, 28, 383-389.	1.3	4
40	Network Classification Based on Reducibility With Respect to the Stability of Canalizing Power of Genes in a Gene Regulatory Network — A Boolean Network Modeling Perspective. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2022, 19, 558-568.	3.0	4
41	Differences in the genome, methylome, and transcriptome do not differentiate isolates of <i>Streptococcus equi</i> subsp. <i>equi</i> from horses with acute clinical signs from isolates of inapparent carriers. <i>PLoS ONE</i> , 2021, 16, e0252804.	2.5	4
42	Fecal microbiome and metabolites differ between breast and formula-fed human infants. <i>FASEB Journal</i> , 2013, 27, 850.4.	0.5	4
43	Transcriptomic Profiling of Gene Expression Associated with Granulosa Cell Tumor Development in a Mouse Model. <i>Cancers</i> , 2022, 14, 2184.	3.7	3
44	Synthesizing Boolean networks with a given attractor structure. , 2006, , .		2
45	Investigation of the binding of dioxin selective pentapeptides to a polyaniline matrix. <i>Synthetic Metals</i> , 2012, 162, 1255-1263.	3.9	2
46	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. <i>PLoS ONE</i> , 2020, 15, e0229797.	2.5	2
47	Gut-host Crosstalk: Methodological and Computational Challenges. <i>Digestive Diseases and Sciences</i> , 2020, 65, 686-694.	2.3	2
48	Exfoliated epithelial cell transcriptome reflects both small and large intestinal cell signatures in piglets. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, G41-G51.	3.4	2
49	An integrated in vivo and in silico analysis of the metabolism disrupting effects of CPI-613 on embryo-larval zebrafish ( <i>Danio rerio</i> ). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 248, 109084.	2.6	2
50	Reduction mappings and control policies for intervention in Boolean Networks. , 2008, , .		1
51	Reduction cost for Boolean Networks with perturbation. , 2008, , .		1
52	The Model-Based Study of the Effectiveness of Reporting Lists of Small Feature Sets Using RNA-Seq Data. <i>Cancer Informatics</i> , 2017, 16, 117693511771053.	1.9	1
53	Reducing the complexity of a PBN while preserving its dynamical structure. , 2006, , .		0
54	Bidirectional Relationships and Attractor Structure of Boolean Networks. , 2007, , .		0

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55	A CoD based reduction algorithm for Boolean and probabilistic Boolean networks. , 2009, , .		0
56	Pathway analysis in the context of Bayesian networks - mathematical modeling of master and canalizing genes. , 2011, , .		0
57	Bayesian multivariate Poisson model for RNA-seq classification. , 2013, , .		0
58	On the distribution of randomly generated boolean networks as models for genetic regulation. , 2017, , .		0
59	Non-invasive stool-based detection of newborn infant gastrointestinal development using gene expression profiles derived from exfoliated epithelial cells. FASEB Journal, 2010, 24, 206.6.	0.5	0
60	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
61	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
62	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
63	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
64	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
65	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0