Ivan Ivanov

List of Publications by Year in descending order

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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	Network Classification Based on Reducibility With Respect to the Stability of Canalizing Power of Genes in a Gene Regulatory Network â€“ A Boolean Network Modeling Perspective. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 558-568.	3.0	4
2	Single-cell RNA Sequencing Reveals How the Aryl Hydrocarbon Receptor Shapes Cellular Differentiation Potency in the Mouse Colon. Cancer Prevention Research, 2022, 15, 17-28.	1.5	6
3	EZH2 and Endometrial Cancer Development: Insights from a Mouse Model. Cells, 2022, 11, 909.	4.1	5
4	Transcriptomic Profiling of Gene Expression Associated with Granulosa Cell Tumor Development in a Mouse Model. Cancers, 2022, 14, 2184.	3.7	3
5	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. Nutrients, 2022, 14, 2377.	4.1	6
6	Loss of Aryl Hydrocarbon Receptor Promotes Colon Tumorigenesis in ApcS580/+; KrasG12D/+ Mice. Molecular Cancer Research, 2021, 19, 771-783.	3.4	26
7	Differences in the genome, methylome, and transcriptome do not differentiate isolates of Streptococcus equi subsp. equi from horses with acute clinical signs from isolates of inapparent carriers. PLoS ONE, 2021, 16, e0252804.	2.5	4
8	Exfoliated epithelial cell transcriptome reflects both small and large intestinal cell signatures in piglets. American Journal of Physiology - Renal Physiology, 2021, 321, G41-G51.	3.4	2
9	An integrated in vivo and in silico analysis of the metabolism disrupting effects of CPI-613 on embryo-larval zebrafish (Danio rerio). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 248, 109084.	2.6	2
10	Effects of high-fat diet and intestinal aryl hydrocarbon receptor deletion on colon carcinogenesis. American Journal of Physiology - Renal Physiology, 2020, 318, G451-G463.	3.4	23
11	Loss of aryl hydrocarbon receptor potentiates FoxM1 signaling to enhance selfâ€renewal of colonic stem and progenitor cells. EMBO Journal, 2020, 39, e104319.	7.8	30
12	Transforming growth factor beta signaling and decidual integrity in miceâ€. Biology of Reproduction, 2020, 103, 1186-1198.	2.7	11
13	Assessing the Multivariate Relationship between the Human Infant Intestinal Exfoliated Cell Transcriptome (Exfoliome) and Microbiome in Response to Diet. Microorganisms, 2020, 8, 2032.	3.6	7
14	Antitumor potential of dark sweet cherry sweet (Prunus avium) phenolics in suppressing xenograft tumor growth of MDA-MB-453 breast cancer cells. Journal of Nutritional Biochemistry, 2020, 84, 108437.	4.2	10
15	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. PLoS ONE, 2020, 15, e0229797.	2.5	2
16	Gut-host Crosstalk: Methodological and Computational Challenges. Digestive Diseases and Sciences, 2020, 65, 686-694.	2.3	2
17	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
18	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0

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19	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
20	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
21	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
22	Non-invasive evaluation of the equine gastrointestinal mucosal transcriptome. , 2020, 15, e0229797.		0
23	Quantifying the notions of canalizing and master genes in a gene regulatory networkâ€"a Boolean network modeling perspective. Bioinformatics, 2019, 35, 643-649.	4.1	4
24	Colonic mucosal and exfoliome transcriptomic profiling and fecal microbiome response to a flaxseed lignan extract intervention in humans. American Journal of Clinical Nutrition, 2019, 110, 377-390.	4.7	29
25	Establishment of a multicomponent dietary bioactive human equivalent dose to delete damaged Lgr5+ stem cells using a mouse colon tumor initiation model. European Journal of Cancer Prevention, 2019, 28, 383-389.	1.3	4
26	Enhancer of Zeste 2 Polycomb Repressive Complex 2 Subunit Is Required for Uterine Epithelial Integrity. American Journal of Pathology, 2019, 189, 1212-1225.	3.8	20
27	<scp>D</scp>ietary fat and fiber interact to uniquely modify global histone postâ€translational epigenetic programming in a rat colon cancer progression model. International Journal of Cancer, 2018, 143, 1402-1415.	5.1	15
28	Assessment of histone tail modifications and transcriptional profiling during colon cancer progression reveals a global decrease in H3K4me3 activity. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1392-1402.	3.8	7
29	The non-invasive exfoliated transcriptome (exfoliome) reflects the tissue-level transcriptome in a mouse model of NSAID enteropathy. Scientific Reports, 2017, 7, 14687.	3.3	20
30	A four-compartment compartmental model to assess net whole body protein breakdown using a pulse of phenylalanine and tyrosine stable isotopes in humans. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E63-E74.	3.5	17
31	The Model-Based Study of the Effectiveness of Reporting Lists of Small Feature Sets Using RNA-Seq Data. Cancer Informatics, 2017, 16, 117693511771053.	1.9	1
32	On the distribution of randomly generated boolean networks as models for genetic regulation. , 2017, , .		0
33	PCAN: Probabilistic Correlation Analysis of Two Non-Normal Data Sets. Biometrics, 2016, 72, 1358-1368.	1.4	7
34	Comprehensive site-specific whole genome profiling of stromal and epithelial colonic gene signatures in human sigmoid colon and rectal tissue. Physiological Genomics, 2016, 48, 651-659.	2.3	12
35	Chronic binge alcohol consumption during pregnancy alters rat maternal uterine artery pressure response. Alcohol, 2016, 56, 59-64.	1.7	7
36	Data describing the effects of dietary bioactive agents on colonic stem cell microRNA and mRNA expression. Data in Brief, 2016, 6, 398-404.	1.0	4

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37	Red raspberry decreases heart biomarkers of cardiac remodeling associated with oxidative and inflammatory stress in obese diabetic db/db mice. Food and Function, 2016, 7, 4944-4955.	4.6	38
38	Comparison of antiâ€inflammatory mechanisms of mango (Mangifera Indica L.) and pomegranate (Punica Granatum L.) in a preclinical model of colitis. Molecular Nutrition and Food Research, 2016, 60, 1912-1923.	3.3	64
39	Comparative effects of diet and carcinogen on microRNA expression in the stem cell niche of the mouse colonic crypt. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 121-134.	3.8	20
40	Influence of whole-wheat consumption on fecal microbial community structure of obese diabetic mice. PeerJ, 2016, 4, e1702.	2.0	34
41	MCMC implementation of the optimal Bayesian classifier for non-Gaussian models: model-based RNA-Seq classification. BMC Bioinformatics, 2014, 15, 401.	2.6	22
42	Noninvasive molecular fingerprinting of hostâ€“microbiome interactions in neonates. FEBS Letters, 2014, 588, 4112-4119.	2.8	32
43	Expression of bovine genes associated with local and systemic immune response to infestation with the Lone Star tick, Amblyomma americanum. Ticks and Tick-borne Diseases, 2014, 5, 676-688.	2.7	4
44	Optimal control of gene regulatory networks with uncertain intervention effects. , 2013, , .		4
45	Bayesian multivariate Poisson model for RNA-seq classification. , 2013, , .		0
46	Genome-wide analysis of the rat colon reveals proximal-distal differences in histone modifications and proto-oncogene expression. Physiological Genomics, 2013, 45, 1229-1243.	2.3	19
47	Fecal microbiome and metabolites differ between breast and formulaâ€fed human infants. FASEB Journal, 2013, 27, 850.4.	0.5	4
48	Investigation of the binding of dioxin selective pentapeptides to a polyaniline matrix. Synthetic Metals, 2012, 162, 1255-1263.	3.9	2
49	Pathway analysis in the context of Bayesian networks - mathematical modeling of master and canalizing genes. , 2011, , .		0
50	Dietary fish oil and curcumin combine to modulate colonic cytokinetics and gene expression in dextran sodium sulphate-treated mice. British Journal of Nutrition, 2011, 106, 519-529.	2.3	54
51	Integrated microRNA and mRNA expression profiling in a rat colon carcinogenesis model: effect of a chemo-protective diet. Physiological Genomics, 2011, 43, 640-654.	2.3	70
52	State reduction for network intervention in probabilistic Boolean networks. Bioinformatics, 2010, 26, 3098-3104.	4.1	30
53	Noninvasive stool-based detection of infant gastrointestinal development using gene expression profiles from exfoliated epithelial cells. American Journal of Physiology - Renal Physiology, 2010, 298, G582-G589.	3.4	78
54	Nonâ€invasive stoolâ€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

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55	A CoD based reduction algorithm for Boolean and probabilistic Boolean networks. , 2009, , .		0
56	n -3 Polyunsaturated fatty acids modulate carcinogen-directed non-coding microRNA signatures in rat colon. Carcinogenesis, 2009, 30, 2077-2084.	2.8	158
57	Intervention in gene regulatory networks via greedy control policies based on long-run behavior. BMC Systems Biology, 2009, 3, 61.	3.0	37
58	Boolean Models of Genomic Regulatory Networks: Reduction Mappings, Inference, and External Control. Current Genomics, 2009, 10, 375-387.	1.6	6
59	Reduction mappings and control policies for intervention in Boolean Networks. , 2008, , .		1
60	Reduction cost for Boolean Networks with perturbation. , 2008, , .		1
61	Dynamics Preserving Size Reduction Mappings for Probabilistic Boolean Networks. IEEE Transactions on Signal Processing, 2007, 55, 2310-2322.	5.3	30
62	Bidirectional Relationships and Attractor Structure of Boolean Networks. , 2007, , .		0
63	Synthesizing Boolean networks with a given attractor structure. , 2006, , .		2
64	Reducing the complexity of a PBN while preserving its dynamical structure. , 2006, , .		0
65	Reduction Mappings between Probabilistic Boolean Networks. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	22