Zeynep H Gümüş

List of Publications by Year
in descending order

65 papers	6,659 citations	201674 27 h-index	182427 51 g-index
86 all docs	86 docs citations	86 times ranked	16256 citing authors

#	ARTICLE	IF	CITATIONS
1	Immunology of COVID-19: Current State of the Science. Immunity, 2020, 52, 910-941.	14.3	1,387
2	Gene expression elucidates functional impact of polygenic risk for schizophrenia. Nature Neuroscience, 2016, 19, 1442-1453.	14.8	952
3	Comprehensive functional genomic resource and integrative model for the human brain. Science, 2018, 362, .	12.6	618
4	Integrated Proteogenomic Characterization of Clear Cell Renal Cell Carcinoma. Cell, 2019, 179, 964-983.e31.	28.9	430
5	Proteogenomic Characterization Reveals Therapeutic Vulnerabilities in Lung Adenocarcinoma. Cell, 2020, 182, 200-225.e35.	28.9	410
6	Integrative Annotation of Variants from 1092 Humans: Application to Cancer Genomics. Science, 2013, 342, 1235587.	12.6	341
7	A microRNA miR-34a-Regulated Bimodal Switch Targets Notch in Colon Cancer Stem Cells. Cell Stem Cell, 2013, 12, 602-615.	11.1	325
8	Integrated Proteogenomic Characterization across Major Histological Types of Pediatric Brain Cancer. Cell, 2020, 183, 1962-1985.e31.	28.9	177
9	A proteogenomic portrait of lung squamous cell carcinoma. Cell, 2021, 184, 4348-4371.e40.	28.9	170
10	Effects of Cigarette Smoke on the Human Oral Mucosal Transcriptome. Cancer Prevention Research, 2010, 3, 266-278.	1.5	146
11	Global Optimization in Design under Uncertainty: Â Feasibility Test and Flexibility Index Problems. Industrial & Engineering Chemistry Research, 2001, 40, 4267-4282.	3.7	136
12	<i>miR-23a</i> Promotes the Transition from Indolent to Invasive Colorectal Cancer. Cancer Discovery, 2012, 2, 540-553.	9.4	132
13	Landscape of Conditional eQTL in Dorsolateral Prefrontal Cortex and Co-localization with Schizophrenia GWAS. American Journal of Human Genetics, 2018, 102, 1169-1184.	6.2	128
14	Global Optimization of Nonlinear Bilevel Programming Problems. Journal of Global Optimization, 2001, 20, 1-31.	1.8	125
15	miR-1269 promotes metastasis and forms a positive feedback loop with TGF-β². Nature Communications, 2015, 6, 6879.	12.8	110
16	Global optimization of mixed-integer bilevel programming problems. Computational Management Science, 2005, 2, 181-212.	1.3	109
17	SpotOn: High Accuracy Identification of Protein-Protein Interface Hot-Spots. Scientific Reports, 2017, 7, 8007.	3.3	77
18	Chemokine 25–induced signaling suppresses colon cancer invasion and metastasis. Journal of Clinical Investigation, 2012, 122, 3184-3196.	8.2	67

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19	Effects of Tobacco Smoke on Gene Expression and Cellular Pathways in a Cellular Model of Oral Leukoplakia. Cancer Prevention Research, 2008, 1, 100-111.	1.5	54
20	A Novel Genetic Variant in Long Non-coding RNA Gene NEXN-AS1 is Associated with Risk of Lung Cancer. Scientific Reports, 2016, 6, 34234.	3.3	48
21	A Machine Learning Approach for Hot-Spot Detection at Protein-Protein Interfaces. International Journal of Molecular Sciences, 2016, 17, 1215.	4.1	46
22	Oncogenic G12D mutation alters local conformations and dynamics of K-Ras. Scientific Reports, 2019, 9, 11730.	3.3	46
23	Identification of SERPINE1 as a Regulator of Glioblastoma Cell Dispersal with Transcriptome Profiling. Cancers, 2019, 11, 1651.	3.7	43
24	Comprehensive Immunoprofiling of Pediatric Zika Reveals Key Role for Monocytes in the Acute Phase and No Effect of Prior Dengue Virus Infection. Cell Reports, 2020, 31, 107569.	6.4	43
25	Ancestry-specific predisposing germline variants in cancer. Genome Medicine, 2020, 12, 51.	8.2	35
26	Comparative effects of oncogenic mutations G12C, G12V, G13D, and Q61H on local conformations and dynamics of K-Ras. Computational and Structural Biotechnology Journal, 2020, 18, 1000-1011.	4.1	33
27	Rapid Temporal Changes in the Expression of a Set of Neuromodulatory Genes During Alcohol Withdrawal in the Dorsal Vagal Complex: Molecular Evidence of Homeostatic Disturbance. Alcoholism: Clinical and Experimental Research, 2012, 36, 1688-1700.	2.4	32
28	Rare, Pathogenic Germline Variants in *Fanconi Anemia* Genes Increase Risk for Squamous Lung Cancer. Clinical Cancer Research, 2019, 25, 1517-1525.	7.0	31
29	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. Nature Biotechnology, 2015, 33, 656-660.	17.5	30
30	Resistance/Response Molecular Signature for Oral Tongue Squamous Cell Carcinoma. Disease Markers, 2012, 32, 51-64.	1.3	28
31	Intrinsic K-Ras dynamics: A novel molecular dynamics data analysis method shows causality between residue pair motions. Scientific Reports, 2016, 6, 37012.	3.3	26
32	KDM2B, an H3K36-specific demethylase, regulates apoptotic response of GBM cells to TRAIL. Cell Death and Disease, 2017, 8, e2897-e2897.	6.3	26
33	Towards a quantitative representation of the cell signaling mechanisms of hallucinogens: Measurement and mathematical modeling of 5-HT1A and 5-HT2A receptor-mediated ERK1/2 activation. Neuropharmacology, 2009, 56, 213-225.	4.1	25
34	High-depth whole genome sequencing of an Ashkenazi Jewish reference panel: enhancing sensitivity, accuracy, and imputation. Human Genetics, 2018, 137, 343-355.	3.8	24
35	Inherited Rare, Deleterious Variants in ATM Increase Lung Adenocarcinoma Risk. Journal of Thoracic Oncology, 2020, 15, 1871-1879.	1.1	24
36	Ancestral reconstruction reveals mechanisms of ERK regulatory evolution. ELife, 2019, 8, .	6.0	24

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37	Reactive distillation column design with vapor/liquid/liquid equilibria. Computers and Chemical Engineering, 1997, 21, S983-S988.	3.8	22
38	iCAVE: an open source tool for visualizing biomolecular networks in 3D, stereoscopic 3D and immersive 3D. GigaScience, 2017, 6, 1-13.	6.4	21
39	Novel ultra-rare exonic variants identified in a founder population implicate cadherins in schizophrenia. Neuron, 2021, 109, 1465-1478.e4.	8.1	21
40	Resistance/response molecular signature for oral tongue squamous cell carcinoma. Disease Markers, 2012, 32, 51-64.	1.3	11
41	Germline Pathogenic Variants Impact Clinicopathology of Advanced Lung Cancer. Cancer Epidemiology Biomarkers and Prevention, 2022, 31, 1450-1459.	2.5	10
42	Exploring Biological Networks in 3D, Stereoscopic 3D, and Immersive 3D with iCAVE. Current Protocols in Bioinformatics, 2018, 61, 8.27.1-8.27.26.	25.8	6
43	Dynamical Rearrangement of Human Epidermal Growth Factor Receptor 2 upon Antibody Binding: Effects on the Dimerization. Biomolecules, 2019, 9, 706.	4.0	6
44	ProNetViewâ€cRCC: A Webâ€Based Portal to Interactively Explore Clear Cell Renal Cell Carcinoma Proteogenomics Networks. Proteomics, 2020, 20, e2000043.	2.2	6
45	Inhibition of colorectal cancer genomic copy number alterations and chromosomal fragile site tumor suppressor FHIT and WWOX deletions by DNA mismatch repair. Oncotarget, 2017, 8, 71574-71586.	1.8	6
46	Generation of TRAIL-resistant cell line models reveals distinct adaptive mechanisms for acquired resistance and re-sensitization. Oncogene, 2021, 40, 3201-3216.	5.9	5
47	ImmuneRegulation: a web-based tool for identifying human immune regulatory elements. Nucleic Acids Research, 2019, 47, W142-W150.	14.5	4
48	Germline and Somatic Smoothened Mutations in Nonâ€"Small-Cell Lung Cancer Are Potentially Responsive to Hedgehog Inhibitor Vismodegib. JCO Precision Oncology, 2017, 1, 1-10.	3.0	3
49	Response of germline and somatic smoothened (SMO) mutations in non-small cell lung cancer (NSCLC) to hedgehog inhibitor vismodegib.. Journal of Clinical Oncology, 2017, 35, 9062-9062.	1.6	3
50	A Brave New World: Virtual Reality and Augmented Reality in Systems Biology. Frontiers in Bioinformatics, 2022, 2, .	2.1	2
51	Identifying Causality in Mutant KRas Residue Pairs from Molecular Dynamics Data Analysis. Biophysical Journal, 2018, 114, 397a.	0.5	1
52	SNPs at SMG7 associated with time from biochemical recurrence to prostate cancer death. Cancer Epidemiology Biomarkers and Prevention, 2022, , .	2.5	1
53	Brain aging is faithfully modelled in organotypic brain slices and accelerated by prions. Communications Biology, 2022, 5, .	4.4	1
54	Nonlinear bilevel programming: A deterministic global optimization framework. Computer Aided Chemical Engineering, 2001, 9, 393-400.	0.5	0

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55	Bilevel Programming: Applications in Engineering. , 2008, , 243-248.		0
56	Quantification and Analysis of Combination Drug Synergy in High-Throughput Transcriptome Studies. , 2010, , .		0
57	EPIG-01THE FUNCTION OF CHROMATIN-MODIFYING ENZYMES IN GBM CELL APOPTOSIS. Neuro-Oncology, 2015, 17, v86.1-v86.	1.2	0
58	CBIO-08IGFBP2 IS A NOVEL MOLECULAR DETERMINANT IN TRAIL-RESISTANT SUBPOPULATIONS OF GBM CELL LINES. Neuro-Oncology, 2015, 17, v56.3-v56.	1.2	0
59	DRES-12. PROFILING OF DIFFERENT GBM CELL POPULATIONS WITH VARYING APOPTOTIC THRESHOLDS IDENTIFIES IGFBP-2 AS AÂNOVEL MEDIATOR OF TRAIL RESISTANCE. Neuro-Oncology, 2016, 18, vi54-vi54.	1.2	0
60	ANGI-08. IDENTIFICATION OF NOVEL MOLECULAR PLAYERS OF GBM CELL DISPERSAL THROUGH AN IN VITRO PROFILING APPROACH. Neuro-Oncology, 2016, 18, vi16-vi16.	1.2	0
61	Spoton: A Machine-Learning Approach for Hot-Spot Determination. Biophysical Journal, 2017, 112, 45a.	0.5	0
62	Functional Common and Rare *ERBB2* Germline Variants Cooperate in Familial and Sporadic Cancer Susceptibility. Cancer Prevention Research, 2021, 14, 441-454.	1.5	0
63	Abstract 115: An integrated framework of transcriptome analysis leads to mechanistic insights into the FTI/Taxol synergy. , 2010, , .		0
64	Abstract 4911: Molecular investigation of the FTI/Taxol synergy using an integrated framework of transcriptome analysis. , 2011, , .		0
65	Mixed Integer Nonlinear Bilevel Programming: Deterministic Global Optimization. , 2008, , 2225-2230.		0