

# Francesco Iorio

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

15,311  
citations

101543

36  
h-index

106344

65  
g-index

96  
all docs

96  
docs citations

96  
times ranked

27723  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drug repurposing: progress, challenges and recommendations. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 41-58.	46.4	2,689
2	Systematic identification of genomic markers of drug sensitivity in cancer cells. <i>Nature</i> , 2012, 483, 570-575.	27.8	2,173
3	Prospective Derivation of a Living Organoid Biobank of Colorectal Cancer Patients. <i>Cell</i> , 2015, 161, 933-945.	28.9	1,710
4	A Landscape of Pharmacogenomic Interactions in Cancer. <i>Cell</i> , 2016, 166, 740-754.	28.9	1,518
5	Prioritization of cancer therapeutic targets using CRISPR-Cas9 screens. <i>Nature</i> , 2019, 568, 511-516.	27.8	886
6	Discovery of drug mode of action and drug repositioning from transcriptional responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14621-14626.	7.1	813
7	Heterogeneity of genomic evolution and mutational profiles in multiple myeloma. <i>Nature Communications</i> , 2014, 5, 2997.	12.8	741
8	A CRISPR Dropout Screen Identifies Genetic Vulnerabilities and Therapeutic Targets in Acute Myeloid Leukemia. <i>Cell Reports</i> , 2016, 17, 1193-1205.	6.4	556
9	Machine Learning Prediction of Cancer Cell Sensitivity to Drugs Based on Genomic and Chemical Properties. <i>PLoS ONE</i> , 2013, 8, e61318.	2.5	406
10	Pharmacogenomic agreement between two cancer cell line data sets. <i>Nature</i> , 2015, 528, 84-87.	27.8	358
11	A Yeast Synthetic Network for In Vivo Assessment of Reverse-Engineering and Modeling Approaches. <i>Cell</i> , 2009, 137, 172-181.	28.9	348
12	Characterizing Mutational Signatures in Human Cancer Cell Lines Reveals Episodic APOBEC Mutagenesis. <i>Cell</i> , 2019, 176, 1282-1294.e20.	28.9	298
13	Transcriptional data: a new gateway to drug repositioning?. <i>Drug Discovery Today</i> , 2013, 18, 350-357.	6.4	209
14	Transcription Factor Activities Enhance Markers of Drug Sensitivity in Cancer. <i>Cancer Research</i> , 2018, 78, 769-780.	0.9	161
15	Agreement between two large pan-cancer CRISPR-Cas9 gene dependency data sets. <i>Nature Communications</i> , 2019, 10, 5817.	12.8	160
16	Integrated cross-study datasets of genetic dependencies in cancer. <i>Nature Communications</i> , 2021, 12, 1661.	12.8	135
17	BRAF inhibitor resistance mediated by the AKT pathway in an oncogenic BRAF mouse melanoma model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E536-45.	7.1	121
18	CellMinerCDB for Integrative Cross-Database Genomics and Pharmacogenomics Analyses of Cancer Cell Lines. <i>IScience</i> , 2018, 10, 247-264.	4.1	117

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19	Hemopoietic-specific Sf3b1-K700E knock-in mice display the splicing defect seen in human MDS but develop anemia without ring sideroblasts. <i>Leukemia</i> , 2017, 31, 720-727.	7.2	105
20	Transcriptional gene network inference from a massive dataset elucidates transcriptome organization and gene function. <i>Nucleic Acids Research</i> , 2011, 39, 8677-8688.	14.5	102
21	Identifying Network of Drug Mode of Action by Gene Expression Profiling. <i>Journal of Computational Biology</i> , 2009, 16, 241-251.	1.6	94
22	Functional linkage of gene fusions to cancer cell fitness assessed by pharmacological and CRISPR-Cas9 screening. <i>Nature Communications</i> , 2019, 10, 2198.	12.8	92
23	Unsupervised correction of gene-independent cell responses to CRISPR-Cas9 targeting. <i>BMC Genomics</i> , 2018, 19, 604.	2.8	75
24	DvD: An R/Cytoscape pipeline for drug repurposing using public repositories of gene expression data. <i>Bioinformatics</i> , 2013, 29, 132-134.	4.1	64
25	Blood transcriptomics of drug-naïve sporadic Parkinson's disease patients. <i>BMC Genomics</i> , 2015, 16, 876.	2.8	64
26	JACKS: joint analysis of CRISPR/Cas9 knockout screens. <i>Genome Research</i> , 2019, 29, 464-471.	5.5	64
27	Drug mechanism of action discovery through the integration of pharmacological and CRISPR screens. <i>Molecular Systems Biology</i> , 2020, 16, e9405.	7.2	63
28	Phosphoproteomics data classify hematological cancer cell lines according to tumor type and sensitivity to kinase inhibitors. <i>Genome Biology</i> , 2013, 14, R37.	9.6	60
29	Combinatorial CRISPR screen identifies fitness effects of gene paralogues. <i>Nature Communications</i> , 2021, 12, 1302.	12.8	59
30	Identification of small molecules enhancing autophagic function from drug network analysis. <i>Autophagy</i> , 2010, 6, 1204-1205.	9.1	58
31	Multilevel models improve precision and speed of IC <sub>50</sub> estimates. <i>Pharmacogenomics</i> , 2016, 17, 691-700.	1.3	57
32	Cancer research needs a better map. <i>Nature</i> , 2021, 589, 514-516.	27.8	57
33	Project Score database: a resource for investigating cancer cell dependencies and prioritizing therapeutic targets. <i>Nucleic Acids Research</i> , 2021, 49, D1365-D1372.	14.5	54
34	Network based elucidation of drug response: from modulators to targets. <i>BMC Systems Biology</i> , 2013, 7, 139.	3.0	47
35	GDSCTools for mining pharmacogenomic interactions in cancer. <i>Bioinformatics</i> , 2018, 34, 1226-1228.	4.1	45
36	Identification of drug-specific pathways based on gene expression data: application to drug induced lung injury. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 904-920.	1.3	43

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37	Logic models to predict continuous outputs based on binary inputs with an application to personalized cancer therapy. <i>Scientific Reports</i> , 2016, 6, 36812.	3.3	43
38	Minimal genome-wide human CRISPR-Cas9 library. <i>Genome Biology</i> , 2021, 22, 40.	8.8	40
39	A Semi-Supervised Approach for Refining Transcriptional Signatures of Drug Response and Repositioning Predictions. <i>PLoS ONE</i> , 2015, 10, e0139446.	2.5	39
40	Efficient randomization of biological networks while preserving functional characterization of individual nodes. <i>BMC Bioinformatics</i> , 2016, 17, 542.	2.6	38
41	The germline genetic component of drug sensitivity in cancer cell lines. <i>Nature Communications</i> , 2018, 9, 3385.	12.8	38
42	Fast randomization of large genomic datasets while preserving alteration counts. <i>Bioinformatics</i> , 2014, 30, i617-i623.	4.1	36
43	Structural rearrangements generate cell-specific, gene-independent CRISPR-Cas9 loss of fitness effects. <i>Genome Biology</i> , 2019, 20, 27.	8.8	35
44	CELLector: Genomics-Guided Selection of Cancer In Vitro Models. <i>Cell Systems</i> , 2020, 10, 424-432.e6.	6.2	35
45	Stem cell-like transcriptional reprogramming mediates metastatic resistance to mTOR inhibition. <i>Oncogene</i> , 2017, 36, 2737-2749.	5.9	34
46	Comprehensive Pharmacogenomic Profiling of Malignant Pleural Mesothelioma Identifies a Subgroup Sensitive to FGFR Inhibition. <i>Clinical Cancer Research</i> , 2018, 24, 84-94.	7.0	33
47	Interactive data analysis and clustering of genomic data. <i>Neural Networks</i> , 2008, 21, 368-378.	5.9	31
48	Artificial neural network analysis of circulating tumor cells in metastatic breast cancer patients. <i>Breast Cancer Research and Treatment</i> , 2011, 129, 451-458.	2.5	31
49	Transcriptional response networks for elucidating mechanisms of action of multitargeted agents. <i>Drug Discovery Today</i> , 2016, 21, 1063-1075.	6.4	28
50	Pathway-based dissection of the genomic heterogeneity of cancer hallmarks' acquisition with SLAPenrich. <i>Scientific Reports</i> , 2018, 8, 6713.	3.3	24
51	Unravelling druggable signalling networks that control F508del-CFTR proteostasis. <i>ELife</i> , 2015, 4, .	6.0	22
52	Genome-wide chemical mutagenesis screens allow unbiased saturation of the cancer genome and identification of drug resistance mutations. <i>Genome Research</i> , 2017, 27, 613-625.	5.5	20
53	Loss of functional BAP1 augments sensitivity to TRAIL in cancer cells. <i>ELife</i> , 2018, 7, .	6.0	20
54	CoRe: a robustly benchmarked R package for identifying core-fitness genes in genome-wide pooled CRISPR-Cas9 screens. <i>BMC Genomics</i> , 2021, 22, 828.	2.8	14

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55	Integrated transcriptomic and proteomic analysis identifies protein kinase CK2 as a key signaling node in an inflammatory cytokine network in ovarian cancer cells. <i>Oncotarget</i> , 2016, 7, 15648-15661.	1.8	13
56	Computational estimation of quality and clinical relevance of cancer cell lines. <i>Molecular Systems Biology</i> , 2022, 18, .	7.2	12
57	Cancer develops, progresses and responds to therapies through restricted perturbation of the protein-protein interaction network. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 1038.	1.3	10
58	Analysis of CRISPR-Cas9 screens identifies genetic dependencies in melanoma. <i>Pigment Cell and Melanoma Research</i> , 2021, 34, 122-131.	3.3	10
59	Functional Impact of Genomic Complexity on the Transcriptome of Multiple Myeloma. <i>Clinical Cancer Research</i> , 2021, 27, 6479-6490.	7.0	9
60	Abstract A44: A landscape of pharmacogenomic interactions in cancer. , 2017, , .		9
61	NIRest: A Tool for Gene Network and Mode of Action Inference. <i>Annals of the New York Academy of Sciences</i> , 2009, 1158, 257-264.	3.8	8
62	Identification of Intrinsic Drug Resistance and Its Biomarkers in High-Throughput Pharmacogenomic and CRISPR Screens. <i>Patterns</i> , 2020, 1, 100065.	5.9	6
63	Exploiting combinatorial patterns in cancer genomic data for personalized therapy and new target discovery. <i>Pharmacogenomics</i> , 2014, 15, 1943-1946.	1.3	5
64	Redefining false discoveries in cancer data analyses. <i>Nature Computational Science</i> , 2021, 1, 22-23.	8.0	1
65	Building Maps of Drugs Mode-of-Action from Gene Expression Data. <i>Lecture Notes in Computer Science</i> , 2009, , 56-65.	1.3	1
66	A Crispr/Cas9 Drop-out Screen Identifies Genome-Wide Genetic Vulnerabilities in Acute Myeloid Leukaemia. <i>Blood</i> , 2015, 126, 554-554.	1.4	1
67	Gene ontology fuzzy-enrichment analysis to investigate drug mode-of-action. , 2010, , .		0
68	High-Throughput Analysis of the Drug Mode of Action of PB28, MC18 and MC70, Three Cyclohexylpiperazine Derivative New Molecules. <i>Lecture Notes in Computer Science</i> , 2008, , 1085-1092.	1.3	0
69	Abstract 49: Targeting the TNF network in human ovarian cancer - A systems biology approach. , 2012, , .		0
70	Whole Exome Sequencing Of Multiple Myeloma Reveals An Heterogeneous Clonal Architecture and Genomic Evolution. <i>Blood</i> , 2013, 122, 399-399.	1.4	0
71	Abstract 2218: Genomic characterisation of 1015 cancer cell-lines. , 2014, , .		0
72	CellMinerCDB for Integrative Genomics and Pharmacogenomics Analyses of Cancer Cell Lines. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0