Dov Greenbaum

List of Publications by Year
in descending order

83 papers	5,611 citations	430874 18 h-index	79698 73 g-index
104 all docs	104 docs citations	104 times ranked	8268 citing authors

#	Article	IF	Citations
1	Comparing protein abundance and mRNA expression levels on a genomic scale. Genome Biology, 2003, 4, 117.	9.6	1,453
2	A Bayesian Networks Approach for Predicting Protein-Protein Interactions from Genomic Data. Science, 2003, 302, 449-453.	12.6	1,183
3	Relating Whole-Genome Expression Data with Protein-Protein Interactions. Genome Research, 2002, 12, 37-46.	5.5	605
4	What is Bioinformatics? A Proposed Definition and Overview of the Field. Methods of Information in Medicine, 2001, 40, 346-358.	1.2	306
5	Genomic analysis of essentiality within protein networks. Trends in Genetics, 2004, 20, 227-231.	6.7	303
6	The real cost of sequencing: higher than you think!. Genome Biology, 2011, 12, 125.	9.6	299
7	Bridging structural biology and genomics: assessing protein interaction data with known complexes. Trends in Genetics, 2002, 18, 529-536.	6.7	265
8	Analysis of mRNA expression and protein abundance data: an approach for the comparison of the enrichment of features in the cellular population of proteins and transcripts. Bioinformatics, 2002, 18, 585-596.	4.1	176
9	Interrelating Different Types of Genomic Data, from Proteome to Secretome: 'Oming in on Function. Genome Research, 2001, 11, 1463-1468.	5.5	155
10	Analyzing Cellular Biochemistry in Terms of Molecular Networks. Annual Review of Biochemistry, 2004, 73, 1051-1087.	11.1	133
11	Genomic and proteomic analysis of the myeloid differentiation program: global analysis of gene expression during induced differentiation in the MPRO cell line. Blood, 2002, 100, 3209-3220.	1.4	88
12	TopNet: a tool for comparing biological sub-networks, correlating protein properties with topological statistics. Nucleic Acids Research, 2004, 32, 328-337.	14.5	80
13	Genomics and Privacy: Implications of the New Reality of Closed Data for the Field. PLoS Computational Biology, 2011, 7, e1002278.	3.2	67
14	The Role of Cloud Computing in Managing the Deluge of Potentially Private Genetic Data. American Journal of Bioethics, 2011, 11, 39-41.	0.9	39
15	Structural genomics analysis: Characteristics of atypical, common, and horizontally transferred folds. Proteins: Structure, Function and Bioinformatics, 2002, 47, 126-141.	2.6	33
16	Genomic Anonymity: Have We Already Lost It?. American Journal of Bioethics, 2008, 8, 71-74.	0.9	31
17	Expanding ELSI to all areas of innovative science and technology. Nature Biotechnology, 2015, 33, 425-426.	17.5	22
18	GeneCensus: genome comparisons in terms of metabolic pathway activity and protein family sharing. Nucleic Acids Research, 2002, 30, 4574-4582.	14.5	20

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19	Increased cyber-biosecurity for DNA synthesis. Nature Biotechnology, 2020, 38, 1379-1381.	17.5	19
20	Deep Fakes and Memory Malleability: False Memories in the Service of Fake News. AJOB Neuroscience, 2020, 11, 96-104.	1.1	19
21	An interdepartmental Ph.D. program in computational biology and bioinformatics: The Yale perspective. Journal of Biomedical Informatics, 2007, 40, 73-79.	4.3	17
22	Network security and data integrity in academia: an assessment and a proposal for large-scale archiving. Genome Biology, 2005, 6, 119.	9.6	16
23	Hochschullehrerprivilegâ€"A Modern Incarnation of the Professorâ€™s Privilege to Promote University to Industry Technology Transfer. Science, Technology and Society, 2010, 15, 55-76.	1.9	16
24	Ethical, legal and social concerns relating to exoskeletons. ACM SIGCAS Computers and Society, 2016, 45, 234-239.	0.1	15
25	Wuz You Robbed? Concerns With Using Big Data Analytics in Sports. American Journal of Bioethics, 2018, 18, 32-33.	0.9	13
26	Space debris puts exploration at risk. Science, 2020, 370, 922-922.	12.6	12
27	Establishing a Global Standard for Wearable Devices in Sport and Exercise Medicine: Perspectives from Academic and Industry Stakeholders. Sports Medicine, 2021, 51, 2237-2250.	6.5	12
28	A universal legal framework as a prerequisite for database interoperability. Nature Biotechnology, 2003, 21, 979-982.	17.5	11
29	Making It Count: Extracting Real World Data from Compassionate Use and Expanded Access Programs. American Journal of Bioethics, 2020, 20, 89-92.	0.9	11
30	Is Social Media a Cesspool of Misinformation? Clearing a Path for Patient-Friendly Safe Spaces Online. American Journal of Bioethics, 2017, 17, 19-21.	0.9	10
31	Structuring supplemental materials in support of reproducibility. Genome Biology, 2017, 18, 64.	8.8	10
32	Neuralink: The Ethical â€˜Rithmatic of Reading and Writing to the Brain. AJOB Neuroscience, 2019, 10, 187-189.	1.1	10
33	Lessons in space regulations from the lunar tardigrades of the Beresheet hard landing. Nature Astronomy, 2020, 4, 208-209.	10.1	10
34	Cyberbiosecurity: An Emerging Field that has Ethical Implications for Clinical Neuroscience. Cambridge Quarterly of Healthcare Ethics, 2021, 30, 662-668.	0.8	9
35	Patents and Drug Shortages: Will the New Congressional Efforts Save Us from Impending Drug Shortages?. American Journal of Bioethics, 2012, 12, 18-20.	0.9	8
36	Are BMI prosthetics uncontrollable Frankensteinian monsters?. Brain-Computer Interfaces, 2016, 3, 149-155.	1.8	8

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37	Grand challenge: ELSI in a changing global environment. Frontiers in Genetics, 2013, 4, 158.	2.3	7
38	If You Donâ€™t Know Where You Are Going, You Might Wind Up Someplace Else: Incidental Findings in Recreational Personal Genomics. American Journal of Bioethics, 2014, 14, 12-14.	0.9	7
39	Social Networking and Personal Genomics: Suggestions for Optimizing the Interaction. American Journal of Bioethics, 2009, 9, 15-19.	0.9	6
40	Legal and Social Implications of Predictive Brain Machine Interfaces: Duty of Care, Negligence, and Criminal Responsibility. AJOB Neuroscience, 2015, 6, 40-42.	1.1	6
41	Genetic Technology to Prevent Disabilities: How Popular Culture Informs Our Understanding of the Use of Genetics to Define and Prevent Undesirable Traits. American Journal of Bioethics, 2015, 15, 32-34.	0.9	5
42	When a Push Becomes a Shove: Nudging in Elderly Care. American Journal of Bioethics, 2019, 19, 78-80.	0.9	5
43	Making Compassionate Use More Useful: Using real-world data, real-world evidence and digital twins to supplement or supplant randomized controlled trials. , 2020, , .		5
44	Avoiding Overregulation in the Medical Internet of Things. , 0, , 129-141.		4
45	Who Watches the Step-Watchers: The Ups and Downs of Turning Anecdotal Citizen Science into Actionable Clinical Data. American Journal of Bioethics, 2019, 19, 44-46.	0.9	4
46	Introducing Personal Genomics to College Athletes: Potentials and Pitfalls. American Journal of Bioethics, 2012, 12, 45-47.	0.9	3
47	If You Can't Walk the Walk, Do You Have to Talk the Talk: Ethical Considerations for the Emerging Field of Sports Genomics. American Journal of Bioethics, 2013, 13, 19-21.	0.9	3
48	Exoskeleton progress yields slippery slope. Science, 2015, 350, 1176-1176.	12.6	3
49	Go Big or Go Home: Big Science and ELSI Funding. AJOB Neuroscience, 2016, 7, 32-34.	1.1	3
50	How Do You Donate Life When People Are Not Dying: Transplants in the Age of Autonomous Vehicles. American Journal of Bioethics, 2018, 18, 27-29.	0.9	3
51	Editorial: ELSI in Human Enhancement: What Distinguishes It From Therapy?. Frontiers in Genetics, 2020, 11, 618.	2.3	3
52	An analysis of the present system of scientific publishing: what's wrong and where to go from here. Interdisciplinary Science Reviews, 2003, 28, 293-302.	1.4	2
53	Genomic Data Disclosure: Time to Reassess the Realities. American Journal of Bioethics, 2013, 13, 47-50.	0.9	2
54	Proposed social and technological solutions to issues of data privacy in personal genomics. , 2014, , .		2

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55	Science and Law Separated by Impenetrable Language Barriers: Overcoming Impediments to Much Needed Interactions. AJOB Neuroscience, 2017, 8, 37-39.	1.1	2
56	Hotline Bling: Late-Night Ethics Calls as an Alternative to Research Ethics Consultations. American Journal of Bioethics, 2018, 18, 61-62.	0.9	2
57	Ethics of AI in Transplant Matching: Is It Better or Just More of the Same?. American Journal of Bioethics, 2019, 19, 45-47.	0.9	2
58	Computer security in academiaâ€"a potential roadblock to distributed annotation of the human genome. Nature Biotechnology, 2004, 22, 771-772.	17.5	1
59	When Scientific Data Become Legal Evidence. Science, 2009, 324, 335-336.	12.6	1
60	Patentable Subject Matter: Morally Neutral and Context Free. Recent Patents on DNA & Gene Sequences, 2011, 5, 72-80.	0.7	1
61	An Analysis of Federal Circuit Discrimination: The Evolution of the Written Description Requirement Vis-a-Vis DNA and Biotechnological Inventions Concerns for Synthetic Biology. Recent Patents on DNA & Gene Sequences, 2011, 5, 153-165.	0.7	1
62	Social Considerations in Research: Consider Them but Don't Use Them. American Journal of Bioethics, 2011, 11, 31-32.	0.9	1
63	Regulation and the Fate of Personalized Medicine. AMA Journal of Ethics, 2012, 14, 645-652.	0.7	1
64	More Nuanced Informed Consent Is Not Necessarily Better Informed Consent. American Journal of Bioethics, 2015, 15, 51-53.	0.9	1
65	Memories: More Dangerous Than the Real Thing?. AJOB Neuroscience, 2016, 7, 251-253.	1.1	1
66	Matters of life and death To Be a Machine: Adventures Among Cyborgs, Utopians,Hackers, and the Futurists Solving the Modest Problem of Death Mark O'Connell Doubleday, 2017. 251 pp. Modern Death: How Medicine Changed the End ofLife Haider Warraich St. Martin's Press, 2017. 336 pp.. Science, 2017, 355, 1029-1029.	12.6	1
67	They Chose â€¦ Poorly: A Novel Cause of Action to Discourage Detrimental Genetic Selection. American Journal of Law and Medicine, 2017, 43, 107-137.	0.2	1
68	National Technology Transfer Mechanisms. , 2011, , .		1
69	Making Compassionate Use More Useful: Using real-world data, real-world evidence and digital twins to supplement or supplant randomized controlled trials. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2021, 26, 38-49.	0.7	1
70	Editorial. Nucleic Acids Research, 2004, 33, D3-D4.	14.5	0
71	An Analysis of the Evolution of the Written Description Requirement vis-a-vis DNA and Biotechnological Inventions. Recent Patents on DNA & Gene Sequences, 2007, 1, 138-44.	0.7	0
72	Can't run from DNA. New Scientist, 2009, 203, 28-29.	0.0	0

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73	State Neutrality and Patentable Subject Matter: Developing Controversial Biotechnology. AJOB Neuroscience, 2010, 1, 59-61.	1.1	0
74	Editorial [Hot Topic Special Issue: Genetics and Athletics Guest Editor: Dov Greenbaum]. Recent Patents on DNA & Gene Sequences, 2012, 6, 173-174.	0.7	0
75	The Picture of Health: Medical Ethics and the Movies. Medical Law Review, 2014, 22, 644-649.	0.5	0
76	Editorial (Thematic Issue: Genomics and Criminal Law). Recent Advances in DNA & Gene Sequences, 2015, 8, 57-58.	0.7	0
77	The Impact of the Humanities in Science and Technology Research: A Multidisciplinary Approach to the Ethical, Social, and Legal Impacts of Science and Innovation. AJOB Neuroscience, 2016, 7, 106-107.	1.1	0
78	Collegiate Sports: Professionals All But in Name Raise Unique Bioethics Concerns in the Collection of Biometric Data. American Journal of Bioethics, 2017, 17, 70-72.	0.9	0
79	Is Criminal Law Both Redundant and Inconsistent?: Crime and Consciousness in Light of Developments in Neuroscience. AJOB Neuroscience, 2018, 9, 51-52.	1.1	0
80	Thematic Coherence Within Narratives: A Feature or a Bug?. AJOB Neuroscience, 2020, 11, 24-25.	1.1	0
81	The lasting legacy of John von Neumann The Man from the Future: The Visionary Life of John von Neumann Ananyo Bhattacharya Norton, 2022. 368 pp.. Science, 2022, 375, 983-983.	12.6	0
82	ELSI: Ethical, Legal and Social Implications. , 2022, , .		0
83	VR in the Prison System: Ethical and Legal Concerns. AJOB Neuroscience, 2022, 13, 158-160.	1.1	0