

# Richard M Gronostajski

## List of Publications by Year in descending order

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101  
papers

6,432  
citations

66343

42  
h-index

74163

75  
g-index

105  
all docs

105  
docs citations

105  
times ranked

7317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Roles of the NFI/CTF gene family in transcription and development. <i>Gene</i> , 2000, 249, 31-45.	2.2	474
2	The Transcription Factor NFIA Controls the Onset of Gliogenesis in the Developing Spinal Cord. <i>Neuron</i> , 2006, 52, 953-968.	8.1	419
3	Single-Cell RNA-Seq Analysis of Retinal Development Identifies NFI Factors as Regulating Mitotic Exit and Late-Born Cell Specification. <i>Neuron</i> , 2019, 102, 1111-1126.e5.	8.1	343
4	Sox9 and NFIA Coordinate a Transcriptional Regulatory Cascade during the Initiation of Gliogenesis. <i>Neuron</i> , 2012, 74, 79-94.	8.1	287
5	The Transcription Factor Gene Nfib Is Essential for both Lung Maturation and Brain Development. <i>Molecular and Cellular Biology</i> , 2005, 25, 685-698.	2.3	266
6	Expression patterns of the four nuclear factor I genes during mouse embryogenesis indicate a potential role in development. <i>Developmental Dynamics</i> , 1997, 208, 313-325.	1.8	196
7	Abnormal Development of Forebrain Midline Glia and Commissural Projections in <i>Nfia</i> Knock-Out Mice. <i>Journal of Neuroscience</i> , 2003, 23, 203-212.	3.6	196
8	Essential Role for NFI-C/CTF Transcription-Replication Factor in Tooth Root Development. <i>Molecular and Cellular Biology</i> , 2003, 23, 1075-1084.	2.3	176
9	Nfix Regulates Fetal-Specific Transcription in Developing Skeletal Muscle. <i>Cell</i> , 2010, 140, 554-566.	28.9	173
10	Epigenomic enhancer annotation reveals a key role for NFIX in neural stem cell quiescence. <i>Genes and Development</i> , 2013, 27, 1769-1786.	5.9	170
11	NFIB is a governor of epithelial melanocyte stem cell behaviour in a shared niche. <i>Nature</i> , 2013, 495, 98-102.	27.8	144
12	The transcription factor Nfix is essential for normal brain development. <i>BMC Developmental Biology</i> , 2008, 8, 52.	2.1	143
13	Thioltransferase (Glutaredoxin) Reactivates the DNA-binding Activity of Oxidation-inactivated Nuclear Factor I. <i>Journal of Biological Chemistry</i> , 1998, 273, 392-397.	3.4	135
14	NFIA Controls Telencephalic Progenitor Cell Differentiation through Repression of the Notch Effector Hes1. <i>Journal of Neuroscience</i> , 2010, 30, 9127-9139.	3.6	119
15	Analysis of nuclear factor I binding to DNA using degenerate oligonucleotides. <i>Nucleic Acids Research</i> , 1986, 14, 9117-9132.	14.5	108
16	NFIA Haploinsufficiency Is Associated with a CNS Malformation Syndrome and Urinary Tract Defects. <i>PLoS Genetics</i> , 2007, 3, e80.	3.5	100
17	Transcription factor Lhx2 is necessary and sufficient to suppress astroglial cell proliferation and promote neurogenesis in the developing hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E265-74.	7.1	94
18	Nuclear Factor One Transcription Factors in CNS Development. <i>Molecular Neurobiology</i> , 2009, 39, 10-23.	4.0	89

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19	Nuclear Factor I-C Is Essential for Odontogenic Cell Proliferation and Odontoblast Differentiation during Tooth Root Development. <i>Journal of Biological Chemistry</i> , 2009, 284, 17293-17303.	3.4	88
20	Specific Glial Populations Regulate Hippocampal Morphogenesis. <i>Journal of Neuroscience</i> , 2008, 28, 12328-12340.	3.6	84
21	CREB Binding Protein Coordinates the Function of Multiple Transcription Factors Including Nuclear Factor I to Regulate Phosphoenolpyruvate Carboxykinase (GTP) Gene Transcription. <i>Journal of Biological Chemistry</i> , 1999, 274, 8813-8822.	3.4	79
22	Differential DNA binding and transcription modulation by three T-box proteins, T, TBX1 and TBX2. <i>Gene</i> , 2000, 258, 15-29.	2.2	79
23	Nuclear factor I gene expression in the developing forebrain. <i>Journal of Comparative Neurology</i> , 2008, 508, 385-401.	1.6	74
24	Nuclear Factor I Coordinates Multiple Phases of Cerebellar Granule Cell Development via Regulation of Cell Adhesion Molecules. <i>Journal of Neuroscience</i> , 2007, 27, 6115-6127.	3.6	73
25	<i>Nfic</i> Gene Disruption Inhibits Differentiation of Odontoblasts Responsible for Root Formation and Results in Formation of Short and Abnormal Roots in Mice. <i>Journal of Periodontology</i> , 2007, 78, 1795-1802.	3.4	72
26	NFIB-Mediated Repression of the Epigenetic Factor <i>Ezh2</i> Regulates Cortical Development. <i>Journal of Neuroscience</i> , 2014, 34, 2921-2930.	3.6	70
27	NFI Transcription Factors Interact with FOXA1 to Regulate Prostate-Specific Gene Expression. <i>Molecular Endocrinology</i> , 2014, 28, 949-964.	3.7	70
28	Mesenchymal Nuclear factor I B regulates cell proliferation and epithelial differentiation during lung maturation. <i>Developmental Biology</i> , 2011, 354, 242-252.	2.0	69
29	Differential DNA methylation of vocal and facial anatomy genes in modern humans. <i>Nature Communications</i> , 2020, 11, 1189.	12.8	69
30	Real Time FRET Based Detection of Mechanical Stress in Cytoskeletal and Extracellular Matrix Proteins. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 148-159.	2.1	65
31	Nuclear Factor I (NFI) Isoforms Differentially Activate Simple versus Complex NFI-responsive Promoters. <i>Journal of Biological Chemistry</i> , 1998, 273, 18538-18546.	3.4	61
32	NFIB overexpression cooperates with <i>Rb/p53</i> deletion to promote small cell lung cancer. <i>Oncotarget</i> , 2016, 7, 57514-57524.	1.8	61
33	Nuclear Factor I/Thyroid Transcription Factor 1 Interactions Modulate Surfactant Protein C Transcription. <i>Molecular and Cellular Biology</i> , 2003, 23, 9014-9024.	2.3	60
34	Nuclear factor one transcription factors: Divergent functions in developmental versus adult stem cell populations. <i>Developmental Dynamics</i> , 2015, 244, 227-238.	1.8	60
35	Differential Interactions of Specific Nuclear Factor I Isoforms with the Glucocorticoid Receptor and STAT5 in the Cooperative Regulation of WAP Gene Transcription. <i>Molecular and Cellular Biology</i> , 2001, 21, 6859-6869.	2.3	59
36	Multiple non-cell-autonomous defects underlie neocortical callosal dysgenesis in <i>Nfib</i> -deficient mice. <i>Neural Development</i> , 2009, 4, 43.	2.4	58

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37	A Role for Nuclear Factor I in the Intrinsic Control of Cerebellar Granule Neuron Gene Expression. <i>Journal of Biological Chemistry</i> , 2004, 279, 53491-53497.	3.4	55
38	Protein degradation in 3T3 cells and tumorigenic transformed 3T3 cells. <i>Journal of Cellular Physiology</i> , 1984, 119, 127-132.	4.1	54
39	NFI transcription factors provide chromatin access to maintain stem cell identity while preventing unintended lineage fate choices. <i>Nature Cell Biology</i> , 2020, 22, 640-650.	10.3	52
40	Nuclear Factor I/B: A Master Regulator of Cell Differentiation with Paradoxical Roles in Cancer. <i>EBioMedicine</i> , 2017, 22, 2-9.	6.1	51
41	Transcriptional regulation of Nfix by NFIB drives astrocytic maturation within the developing spinal cord. <i>Developmental Biology</i> , 2017, 432, 286-297.	2.0	50
42	NFI-C Regulates Osteoblast Differentiation via Control of Osterix Expression. <i>Stem Cells</i> , 2014, 32, 2467-2479.	3.2	49
43	Nuclear Factor I-C Links Platelet-Derived Growth Factor and Transforming Growth Factor $\beta$ 1 Signaling to Skin Wound Healing Progression. <i>Molecular and Cellular Biology</i> , 2009, 29, 6006-6017.	2.3	47
44	Nuclear factor one X regulates the development of multiple cellular populations in the postnatal cerebellum. <i>Journal of Comparative Neurology</i> , 2011, 519, 3532-3548.	1.6	44
45	Crosstalk between Nuclear Factor I-C and Transforming Growth Factor- $\beta$ 1 Signaling Regulates Odontoblast Differentiation and Homeostasis. <i>PLoS ONE</i> , 2011, 6, e29160.	2.5	44
46	NFIX Regulates Proliferation and Migration Within the Murine SVZ Neurogenic Niche. <i>Cerebral Cortex</i> , 2015, 25, 3758-3778.	2.9	43
47	The Nuclear Factor I (NFI) gene family in mammary gland development and function. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2003, 8, 241-254.	2.7	42
48	NMDA-induced neuronal survival is mediated through nuclear factor I-A in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 2446-2456.	8.2	42
49	Nuclear Factor I-mediated Repression of the Mouse Mammary Tumor Virus Promoter Is Abrogated by the Coactivators p300/CBP and SRC-1. <i>Journal of Biological Chemistry</i> , 1999, 274, 7072-7081.	3.4	41
50	NFIB Haploinsufficiency Is Associated with Intellectual Disability and Macrocephaly. <i>American Journal of Human Genetics</i> , 2018, 103, 752-768.	6.2	40
51	Physical and Kinetic Properties of the Nicotinamide Adenine Dinucleotide-specific Glutamate Dehydrogenase Purified from <i>Chlorella sorokiniana</i> . <i>Plant Physiology</i> , 1978, 61, 967-974.	4.8	37
52	Nuclear Factor One X in Development and Disease. <i>Trends in Cell Biology</i> , 2019, 29, 20-30.	7.9	36
53	Identification of NFI-binding sites and cloning of NFI-cDNAs suggest a regulatory role for NFI transcription factors in olfactory neuron gene expression. <i>Molecular Brain Research</i> , 1999, 72, 65-79.	2.3	35
54	Differential neuronal and glial expression of nuclear factor I proteins in the cerebral cortex of adult mice. <i>Journal of Comparative Neurology</i> , 2017, 525, 2465-2483.	1.6	35

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55	The role of increased proteolysis in the atrophy and arrest of proliferation in serum-deprived fibroblasts. <i>Journal of Cellular Physiology</i> , 1984, 121, 189-198.	4.1	34
56	Temporal Regulation of Nuclear Factor One Occupancy by Calcineurin/NFAT Governs a Voltage-Sensitive Developmental Switch in Late Maturing Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 2860-2872.	3.6	33
57	Transcriptional regulation of intermediate progenitor cell generation during hippocampal development. <i>Development (Cambridge)</i> , 2016, 143, 4620-4630.	2.5	33
58	Variants in nuclear factor I genes influence growth and development. <i>American Journal of Medical Genetics, Part C: Seminars in Medical Genetics</i> , 2019, 181, 611-626.	1.6	32
59	Disruption of Nfic Causes Dissociation of Odontoblasts by Interfering With the Formation of Intercellular Junctions and Aberrant Odontoblast Differentiation. <i>Journal of Histochemistry and Cytochemistry</i> , 2009, 57, 469-476.	2.5	31
60	DNA-binding specificity and in vivo targets of <i>Caenorhabditis elegans</i> nuclear factor I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12049-12054.	7.1	29
61	Targets of the nuclear factor I regulon involved in early and late development of postmitotic cerebellar granule neurons. <i>Journal of Neuroscience Research</i> , 2010, 88, 258-265.	2.9	29
62	Neurogenic differentiation by hippocampal neural stem and progenitor cells is biased by NFIX expression. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	29
63	Stimulation of transcription in vitro by binding sites for nuclear factor I. <i>Nucleic Acids Research</i> , 1988, 16, 2087-2098.	14.5	27
64	Nuclear Factor I Regulates Expression of the Gene for Phosphoenolpyruvate Carboxykinase (GTP). <i>Journal of Biological Chemistry</i> , 1998, 273, 13387-13390.	3.4	24
65	AF111264 ( Nfib ), AF111265 ( Nfic ), AF111266 ( Nfix ).->. <i>Mammalian Genome</i> , 1999, 10, 390-396.	2.2	24
66	Transcriptional Regulation of Rat CYP2A3 by Nuclear Factor 1. <i>Journal of Biological Chemistry</i> , 2004, 279, 27888-27895.	3.4	23
67	Nuclear Factor I and Cerebellar Granule Neuron Development: An Intrinsic“Extrinsic Interplay. <i>Cerebellum</i> , 2012, 11, 41-49.	2.5	23
68	Absence of the transcription factor <i>Nfib</i> delays the formation of the basilar pontine and other mossy fiber nuclei. <i>Journal of Comparative Neurology</i> , 2009, 513, 98-112.	1.6	22
69	The NFI-Regulome Database: A tool for annotation and analysis of control regions of genes regulated by Nuclear Factor I transcription factors. <i>Journal of Clinical Bioinformatics</i> , 2011, 1, 4.	1.2	22
70	Expansion of the lateral ventricles and ependymal deficits underlie the hydrocephalus evident in mice lacking the transcription factor NFIX. <i>Brain Research</i> , 2015, 1616, 71-87.	2.2	22
71	Combined allelic dosage of <i>Nfia</i> and <i>Nfib</i> regulates cortical development. <i>Brain and Neuroscience Advances</i> , 2017, 1, 239821281773943.	3.4	22
72	Loss of NFIX Transcription Factor Biases Postnatal Neural Stem/Progenitor Cells Toward Oligodendrogenesis. <i>Stem Cells and Development</i> , 2015, 24, 2114-2126.	2.1	21

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73	Reciprocal autoregulation by NFI occupancy and ETV1 promotes the developmental expression of dendrite-synapse genes in cerebellar granule neurons. <i>Molecular Biology of the Cell</i> , 2016, 27, 1488-1499.	2.1	21
74	Transcriptional regulation of ependymal cell maturation within the postnatal brain. <i>Neural Development</i> , 2018, 13, 2.	2.4	21
75	Nfix Expression Critically Modulates Early B Lymphopoiesis and Myelopoiesis. <i>PLoS ONE</i> , 2015, 10, e0120102.	2.5	19
76	Heterozygosity for Nuclear Factor One X Affects Hippocampal-Dependent Behaviour in Mice. <i>PLoS ONE</i> , 2013, 8, e65478.	2.5	19
77	Nuclear Factor One X Regulates Bobby Sox During Development of the Mouse Forebrain. <i>Cellular and Molecular Neurobiology</i> , 2013, 33, 867-873.	3.3	17
78	Coregulation of Genetic Programs by the Transcription Factors NFIB and STAT5. <i>Molecular Endocrinology</i> , 2014, 28, 758-767.	3.7	16
79	Common Regulatory Targets of NFIA, NFIX and NFIB during Postnatal Cerebellar Development. <i>Cerebellum</i> , 2020, 19, 89-101.	2.5	16
80	Cell-type-specific expression of NFIX in the developing and adult cerebellum. <i>Brain Structure and Function</i> , 2017, 222, 2251-2270.	2.3	15
81	BDNF activates an NFI-dependent neurodevelopmental timing program by sequestering NFATc4. <i>Molecular Biology of the Cell</i> , 2018, 29, 975-987.	2.1	12
82	Differential target gene activation by TBX2 and TBX2VP16: evidence for activation domain-dependent modulation of gene target specificity. <i>Gene</i> , 2004, 342, 67-76.	2.2	10
83	T-box proteins differentially activate the expression of the endogenous interferon $\beta$ gene versus transfected reporter genes in non-immune cells. <i>Gene</i> , 2006, 377, 130-139.	2.2	10
84	Granule neuron precursor cell proliferation is regulated by NFIX and intersectin 1 during postnatal cerebellar development. <i>Brain Structure and Function</i> , 2019, 224, 811-827.	2.3	10
85	NFIX-Mediated Inhibition of Neuroblast Branching Regulates Migration Within the Adult Mouse Ventricular Subventricular Zone. <i>Cerebral Cortex</i> , 2019, 29, 3590-3604.	2.9	10
86	Heterozygosity for Nuclear Factor One X in mice models features of Malan syndrome. <i>EBioMedicine</i> , 2019, 39, 388-400.	6.1	9
87	Bel1-mediated Transactivation of the Spumaretroviral Internal Promoter Is Repressed by Nuclear Factor I. <i>Journal of Biological Chemistry</i> , 2003, 278, 11836-11842.	3.4	8
88	<i>Nfib</i> hemizygous mice are protected from hyperoxic lung injury and death. <i>Physiological Reports</i> , 2017, 5, e13398.	1.7	8
89	nfi-I affects behavior and life-span in <i>C. elegans</i> but is not essential for DNA replication or survival. <i>BMC Developmental Biology</i> , 2005, 5, 24.	2.1	7
90	Nuclear Factor I/A Controls A-fiber Nociceptor Development. <i>Neuroscience Bulletin</i> , 2020, 36, 685-695.	2.9	7

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91	NFIA and NFIB function as tumour suppressors in high-grade glioma in mice. <i>Carcinogenesis</i> , 2021, 42, 357-368.	2.8	7
92	Analysis of hippocampal-dependent learning and memory behaviour in mice lacking Nfix from adult neural stem cells. <i>BMC Research Notes</i> , 2018, 11, 564.	1.4	4
93	Deletion of NFIX results in defective progression through meiosis within the mouse testis. <i>Biology of Reproduction</i> , 2022, , .	2.7	4
94	Recombination activation gene-2-deficient blastocyst complementation analysis reveals an essential role for nuclear factor I-A transcription factor in T-cell activation. <i>International Immunology</i> , 2011, 23, 385-390.	4.0	3
95	Alterations in gene expression in the spinal cord of mice lacking Nfix. <i>BMC Research Notes</i> , 2020, 13, 437.	1.4	1
96	Expression patterns of the four nuclear factor I genes during mouse embryogenesis indicate a potential role in development. <i>Developmental Dynamics</i> , 1997, 208, 313-325.	1.8	1
97	Nuclear factor I gene expression in the developing forebrain. <i>Journal of Comparative Neurology</i> , 2008, 508, SPC1-SPC1.	1.6	0
98	Nuclear factor I gene expression in the developing forebrain. <i>Journal of Comparative Neurology</i> , 2008, 508, spc1.	1.6	0
99	Differential neuronal and glial expression of nuclear factor I proteins in the cerebral cortex of adult mice. <i>Journal of Comparative Neurology</i> , 2017, 525, spc1-spc1.	1.6	0
100	Common regulatory targets of NFIA and NFIX mediate postnatal cerebellar development. <i>IBRO Reports</i> , 2019, 6, S337-S338.	0.3	0
101	NFIA controls progenitor cell differentiation through repression of the Notch effector Hes1. <i>FASEB Journal</i> , 2010, 24, 65.2.	0.5	0