

Donald F Newgreen

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

5,124
citations

159585

30
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

4944
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines and definitions for research on epithelial-mesenchymal transition. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 341-352.	37.0	1,195
2	Carcinoma Invasion and Metastasis: A Role for Epithelial-Mesenchymal Transition?. <i>Cancer Research</i> , 2005, 65, 5991-5995.	0.9	579
3	The Fallacy of Epithelial Mesenchymal Transition in Neoplasia. <i>Cancer Research</i> , 2005, 65, 5996-6001.	0.9	489
4	GDNF Is a Chemoattractant for Enteric Neural Cells. <i>Developmental Biology</i> , 2001, 229, 503-516.	2.0	280
5	Dynamics of neural crest-derived cell migration in the embryonic mouse gut. <i>Developmental Biology</i> , 2004, 270, 455-473.	2.0	256
6	A Single Rostrocaudal Colonization of the Rodent Intestine by Enteric Neuron Precursors Is Revealed by the Expression of Phox2b, Ret, and p75 and by Explants Grown under the Kidney Capsule or in Organ Culture. <i>Developmental Biology</i> , 1998, 202, 67-84.	2.0	208
7	Cell proliferation drives neural crest cell invasion of the intestine. <i>Developmental Biology</i> , 2007, 302, 553-568.	2.0	182
8	Transplanted progenitors generate functional enteric neurons in the postnatal colon. <i>Journal of Clinical Investigation</i> , 2013, 123, 1182-1191.	8.2	138
9	Sox10 overexpression induces neural crest-like cells from all dorsoventral levels of the neural tube but inhibits differentiation. <i>Developmental Dynamics</i> , 2005, 233, 430-444.	1.8	136
10	Trans-mesenteric neural crest cells are the principal source of the colonic enteric nervous system. <i>Nature Neuroscience</i> , 2012, 15, 1211-1218.	14.8	131
11	The Migration of Neural Crest Cells. <i>International Review of Cytology</i> , 1986, 103, 89-145.	6.2	128
12	White paper on guidelines concerning enteric nervous system stem cell therapy for enteric neuropathies. <i>Developmental Biology</i> , 2016, 417, 229-251.	2.0	112
13	Looking inside an invasion wave of cells using continuum models: Proliferation is the key. <i>Journal of Theoretical Biology</i> , 2006, 243, 343-360.	1.7	83
14	Morphology and behaviour of neural crest cells of chick embryo in vitro. <i>Cell and Tissue Research</i> , 1979, 203, 115-40.	2.9	77
15	Modeling proliferative tissue growth: A general approach and an avian case study. <i>Physical Review E</i> , 2008, 78, 031912.	2.1	73
16	Migration of Enteric Neural Crest Cells in Relation to Growth of the Gut in Avian Embryos. <i>Cells Tissues Organs</i> , 1996, 157, 105-115.	2.3	68
17	Mathematical and experimental insights into the development of the enteric nervous system and Hirschsprung's Disease. <i>Development Growth and Differentiation</i> , 2007, 49, 277-286.	1.5	63
18	Neural crest regionalisation for enteric nervous system formation: Implications for Hirschsprung's disease and stem cell therapy. <i>Developmental Biology</i> , 2010, 339, 280-294.	2.0	59

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19	Contribution of Fibroblast and Mast Cell (Afferent) and Tumor (Efferent) IL-6 Effects within the Tumor Microenvironment. <i>Cancer Microenvironment</i> , 2012, 5, 83-93.	3.1	59
20	Retinoic Acid Upregulates Ret and Induces Chain Migration and Population Expansion in Vagal Neural Crest Cells to Colonise the Embryonic Gut. <i>PLoS ONE</i> , 2013, 8, e64077.	2.5	59
21	Extracellular Matrix and Adhesive Molecules in the Early Development of the Gut and Its Innervation in Normal and <i>Spotting Lethal&/i> Rat Embryos. <i>Cells Tissues Organs</i> , 1995, 154, 243-260.	2.3	57
22	Differentiation of sympathetic and enteric neurons of the fowl embryo in grafts to the chorio-allantoic membrane. <i>Cell and Tissue Research</i> , 1980, 208, 1-19.	2.9	55
23	Neural cells in the esophagus respond to glial cell line-derived neurotrophic factor and neurturin, and are RET-dependent. <i>Developmental Biology</i> , 2004, 272, 118-133.	2.0	52
24	Non-linear elasticity of core/shell spun PGS/PLLA fibres and their effect on cell proliferation. <i>Biomaterials</i> , 2013, 34, 6306-6317.	11.4	47
25	Developmental changes in neurite outgrowth responses of dorsal root and sympathetic ganglia to GDNF, neurturin, and artemin. <i>Developmental Dynamics</i> , 2003, 227, 395-401.	1.8	46
26	Chemotactic and diffusive migration on a nonuniformly growing domain: numerical algorithm development and applications. <i>Journal of Computational and Applied Mathematics</i> , 2006, 192, 282-300.	2.0	45
27	Cell lineage tracing in the developing enteric nervous system: superstars revealed by experiment and simulation. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130815.	3.4	40
28	Enteric Neural Cells From Hirschsprung Disease Patients Form Ganglia in Autologous Aneuronal Colon. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 92-109.	4.5	40
29	Simple rules for a simple nervous system? Molecular and biomathematical approaches to enteric nervous system formation and malformation. <i>Developmental Biology</i> , 2013, 382, 305-319.	2.0	39
30	On the role of differential adhesion in gangliogenesis in the enteric nervous system. <i>Journal of Theoretical Biology</i> , 2011, 287, 148-159.	1.7	38
31	Spatial Analysis of Multi-species Exclusion Processes: Application to Neural Crest Cell Migration in the Embryonic Gut. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 474-490.	1.9	34
32	Building stable chains with motile agents: Insights into the morphology of enteric neural crest cell migration. <i>Journal of Theoretical Biology</i> , 2011, 276, 250-268.	1.7	30
33	Fibroblast growth factor-2 over-rides insulin-like growth factor-I induced proliferation and cell survival in human neuroblastoma cells. <i>Journal of Cellular Physiology</i> , 2004, 199, 371-380.	4.1	23
34	CRISPR/Cas9 Targets Chicken Embryonic Somatic Cells In Vitro and In Vivo and generates Phenotypic Abnormalities. <i>Scientific Reports</i> , 2016, 6, 34524.	3.3	22
35	Generation of Adrenal Chromaffin-like Cells from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2018, 10, 134-150.	4.8	21
36	Parameters affecting efficiency of in ovo electroporation of the avian neural tube and crest. <i>Developmental Dynamics</i> , 2014, 243, 1440-1447.	1.8	18

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37	Spatial and temporal dynamics of cell generations within an invasion wave: A link to cell lineage tracing. <i>Journal of Theoretical Biology</i> , 2014, 363, 344-356.	1.7	16
38	Why are enteric ganglia so small? Role of differential adhesion of enteric neurons and enteric neural crest cells.. <i>F1000Research</i> , 2015, 4, 113.	1.6	16
39	Neural Crest Cell Outgrowth Cultures and the Analysis of Cell Migration. , 2000, 137, 201-211.		12
40	The enteric neural crest progressively loses capacity to form enteric nervous system. <i>Developmental Biology</i> , 2019, 446, 34-42.	2.0	11
41	Differential Clonal Expansion in an Invading Cell Population: Clonal Advantage or Dumb Luck?. <i>Cells Tissues Organs</i> , 2017, 203, 105-113.	2.3	10
42	Fine scale differences within the vagal neural crest for enteric nervous system formation. <i>Developmental Biology</i> , 2019, 446, 22-33.	2.0	10
43	RET overactivation leads to concurrent Hirschsprung disease and intestinal ganglioneuromas. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	10
44	Incomplete penetrance: The role of stochasticity in developmental cell colonization. <i>Journal of Theoretical Biology</i> , 2015, 380, 309-314.	1.7	9
45	Olf603, an orphan olfactory receptor, is expressed in multiple specific embryonic tissues. <i>Gene Expression Patterns</i> , 2015, 19, 30-35.	0.8	7
46	Modeling Development and Disease in Our "Second" Brain. <i>Lecture Notes in Computer Science</i> , 2012, , 405-414.	1.3	6
47	Deficiency of the Wnt receptor <i>Ryk</i> causes multiple cardiac and outflow tract defects. <i>Growth Factors</i> , 2018, 36, 58-68.	1.7	5
48	Stochastic clonal expansion of "superstars" enhances the reserve capacity of enteric nervous system precursor cells. <i>Developmental Biology</i> , 2018, 444, S287-S296.	2.0	4
49	Development of Functional Thyroid C Cell-like Cells from Human Pluripotent Cells in 2D and in 3D Scaffolds. <i>Cells</i> , 2021, 10, 2897.	4.1	4
50	The Somatic Mutation Paradigm in Congenital Malformations: Hirschsprung Disease as a Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12354.	4.1	3
51	The Continuum of Epithelial Mesenchymal Transition " Implication of Hybrid States for Migration and Survival in Development and Cancer. , 0, , 117-130.		1
52	Development of the Enteric Nervous System. , 2018, , 273-288.		1
53	Technologies for Live Imaging of Enteric Neural Crest-Derived Cells. <i>Methods in Molecular Biology</i> , 2019, 1976, 97-105.	0.9	1
54	Addressing Interdisciplinary Difficulties in Developmental Biology/Mathematical Collaborations: A Neural Crest Example. <i>Methods in Molecular Biology</i> , 2019, 1976, 21-36.	0.9	1