

Jean-Noel Freund

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123
papers

6,266
citations

40
h-index

76
g-index

140
ext. papers

6,862
ext. citations

7.7
avg, IF

5.03
L-index

#	Paper	IF	Citations
123	Wnt/beta-catenin/Tcf signaling induces the transcription of Axin2, a negative regulator of the signaling pathway. <i>Molecular and Cellular Biology</i> , 2002 , 22, 1172-83	4.8	1319
122	SOX9 is an intestine crypt transcription factor, is regulated by the Wnt pathway, and represses the CDX2 and MUC2 genes. <i>Journal of Cell Biology</i> , 2004 , 166, 37-47	7.3	356
121	Key role of the Cdx2 homeobox gene in extracellular matrix-mediated intestinal cell differentiation. <i>Journal of Cell Biology</i> , 1997 , 139, 1553-65	7.3	244
120	Klotho is a novel beta-glucuronidase capable of hydrolyzing steroid beta-glucuronides. <i>Journal of Biological Chemistry</i> , 2004 , 279, 9777-84	5.4	172
119	The Cdx2 homeobox gene has a tumour suppressor function in the distal colon in addition to a homeotic role during gut development. <i>Gut</i> , 2003 , 52, 1465-71	19.2	172
118	Cdx and Hox genes differentially regulate posterior axial growth in mammalian embryos. <i>Developmental Cell</i> , 2009 , 17, 516-26	10.2	168
117	The Cdx-1 and Cdx-2 homeobox genes in the intestine. <i>Biochemistry and Cell Biology</i> , 1998 , 76, 957-69	3.6	168
116	NADPH oxidase 1 modulates WNT and NOTCH1 signaling to control the fate of proliferative progenitor cells in the colon. <i>Molecular and Cellular Biology</i> , 2010 , 30, 2636-50	4.8	143
115	Functional interference between thyroid hormone receptor alpha (TRalpha) and natural truncated TRDeltaalpha isoforms in the control of intestine development. <i>Molecular and Cellular Biology</i> , 2001 , 21, 4761-72	4.8	114
114	Down-regulation of the homeodomain factor Cdx2 in colorectal cancer by collagen type I: an active role for the tumor environment in malignant tumor progression. <i>Cancer Research</i> , 2004 , 64, 6973-7	10.1	109
113	PTEN and TNF-alpha regulation of the intestinal-specific Cdx-2 homeobox gene through a PI3K, PKB/Akt, and NF-kappaB-dependent pathway. <i>Gastroenterology</i> , 2002 , 123, 1163-78	13.3	109
112	Intestinal epithelial-mesenchymal cell interactions. <i>Annals of the New York Academy of Sciences</i> , 1998 , 859, 1-17	6.5	106
111	The rudimentary gene of <i>Drosophila melanogaster</i> encodes four enzymic functions. <i>Journal of Molecular Biology</i> , 1987 , 193, 1-13	6.5	105
110	Identification and characterization of human Mex-3 proteins, a novel family of evolutionarily conserved RNA-binding proteins differentially localized to processing bodies. <i>Nucleic Acids Research</i> , 2007 , 35, 1289-300	20.1	100
109	Involvement of T3Ralpha- and beta-receptor subtypes in mediation of T3 functions during postnatal murine intestinal development. <i>Gastroenterology</i> , 1999 , 116, 1367-78	13.3	93
108	Fetal endoderm primarily holds the temporal and positional information required for mammalian intestinal development. <i>Journal of Cell Biology</i> , 1994 , 126, 211-21	7.3	92
107	The Cdx-1 and Cdx-2 homeobox genes in the intestine. <i>Biochemistry and Cell Biology</i> , 1998 , 76, 957-969	3.6	92

106	Down-regulation of the tumor suppressor PTEN by the tumor necrosis factor-alpha/nuclear factor-kappaB (NF-kappaB)-inducing kinase/NF-kappaB pathway is linked to a default IkappaB-alpha autoregulatory loop. <i>Journal of Biological Chemistry</i> , 2004 , 279, 4285-91	5.4	84
105	The intestine-specific homeobox gene Cdx2 decreases mobility and antagonizes dissemination of colon cancer cells. <i>Oncogene</i> , 2008 , 27, 107-15	9.2	78
104	Bile acids induce ectopic expression of intestinal guanylyl cyclase C Through nuclear factor-kappaB and Cdx2 in human esophageal cells. <i>Gastroenterology</i> , 2006 , 130, 1191-206	13.3	76
103	Directing nuclear deformation on micropillared surfaces by substrate geometry and cytoskeleton organization. <i>Biomaterials</i> , 2013 , 34, 2991-3001	15.6	73
102	Downregulation of the colon tumour-suppressor homeobox gene Cdx-2 by oncogenic ras. <i>Oncogene</i> , 1999 , 18, 87-92	9.2	71
101	Cdx2 determines the fate of postnatal intestinal endoderm. <i>Development (Cambridge)</i> , 2012 , 139, 465-74	6.6	65
100	Type IV collagen mRNA accumulates in the mesenchymal compartment at early stages of murine developing intestine. <i>Journal of Cell Biology</i> , 1990 , 110, 849-57	7.3	65
99	Multiple regulatory regions control the complex expression pattern of the mouse Cdx2 homeobox gene. <i>Gastroenterology</i> , 2008 , 135, 1238-1247, 1247.e1-3	13.3	61
98	Cellular and molecular partners involved in gut morphogenesis and differentiation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1998 , 353, 847-56	5.8	61
97	CDX2 regulation by the RNA-binding protein MEX3A: impact on intestinal differentiation and stemness. <i>Nucleic Acids Research</i> , 2013 , 41, 3986-99	20.1	60
96	Concerted involvement of Cdx/Hox genes and Wnt signaling in morphogenesis of the caudal neural tube and cloacal derivatives from the posterior growth zone. <i>Development (Cambridge)</i> , 2011 , 138, 3451-62	6.6	59
95	Molecular and cellular effects of vitamin B12 in brain, myocardium and liver through its role as co-factor of methionine synthase. <i>Biochimie</i> , 2013 , 95, 1033-40	4.6	58
94	Sprouty2 inhibits BDNF-induced signaling and modulates neuronal differentiation and survival. <i>Cell Death and Differentiation</i> , 2007 , 14, 1802-12	12.7	54
93	Production of low-lactose milk by ectopic expression of intestinal lactase in the mouse mammary gland. <i>Nature Biotechnology</i> , 1999 , 17, 160-4	44.5	52
92	Lactase expression is controlled differently in the jejunum and ileum during development in rats. <i>Gastroenterology</i> , 1991 , 100, 388-94	13.3	51
91	Gastric intestinal metaplasia revisited: function and regulation of CDX2. <i>Trends in Molecular Medicine</i> , 2012 , 18, 555-63	11.5	50
90	Stimulation of the intestinal Cdx2 homeobox gene by butyrate in colon cancer cells. <i>Gut</i> , 2002 , 50, 525-9	19.2	49
89	Laminin isoforms: biological roles and effects on the intracellular distribution of nuclear proteins in intestinal epithelial cells. <i>Experimental Cell Research</i> , 2005 , 303, 494-503	4.2	48

88	Key elements of the BMP/SMAD pathway co-localize with CDX2 in intestinal metaplasia and regulate CDX2 expression in human gastric cell lines. <i>Journal of Pathology</i> , 2008 , 215, 411-20	9.4	46
87	CDX2 autoregulation in human intestinal metaplasia of the stomach: impact on the stability of the phenotype. <i>Gut</i> , 2011 , 60, 290-8	19.2	45
86	The human mucin MUC4 is transcriptionally regulated by caudal-related homeobox, hepatocyte nuclear factors, forkhead box A, and GATA endodermal transcription factors in epithelial cancer cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22638-50	5.4	40
85	Gradient expression of Cdx along the rat intestine throughout postnatal development. <i>FEBS Letters</i> , 1992 , 314, 163-6	3.8	40
84	Discrepancy between the intestinal lactase enzymatic activity and mRNA accumulation in sucklings and adults. Effect of starvation and thyroxine treatment. <i>FEBS Letters</i> , 1989 , 248, 39-42	3.8	40
83	Phosphorylation of the homeotic tumor suppressor Cdx2 mediates its ubiquitin-dependent proteasome degradation. <i>Oncogene</i> , 2005 , 24, 7955-63	9.2	37
82	Multiple levels of control of the stage- and region-specific expression of rat intestinal lactase. <i>Journal of Cell Biology</i> , 1993 , 123, 1577-86	7.3	37
81	Broader expression of the mouse platelet factor 4-cre transgene beyond the megakaryocyte lineage. <i>Journal of Thrombosis and Haemostasis</i> , 2015 , 13, 115-25	15.4	34
80	Cdx2 controls expression of the protocadherin Mucdhl, an inhibitor of growth and Eatenin activity in colon cancer cells. <i>Gastroenterology</i> , 2012 , 142, 875-885.e3	13.3	34
79	Combined NADPH oxidase 1 and interleukin 10 deficiency induces chronic endoplasmic reticulum stress and causes ulcerative colitis-like disease in mice. <i>PLoS ONE</i> , 2014 , 9, e101669	3.7	33
78	Differential regulation of the glucose-6-phosphatase TATA box by intestine-specific homeodomain proteins CDX1 and CDX2. <i>Nucleic Acids Research</i> , 2003 , 31, 5238-46	20.1	33
77	CDX-2 homeobox gene expression in human gastric carcinoma and precursor lesions. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2006 , 21, 438-42	4	31
76	Specific expression of lactase in the jejunum and colon during postnatal development and hormone treatments in the rat. <i>Biochemical Journal</i> , 1990 , 268, 99-103	3.8	30
75	Sequence of the precursor of intestinal lactase-phlorizin hydrolase from fetal rat. <i>Gene</i> , 1991 , 103, 275-63.8	3.8	30
74	Different effects of the Cdx1 and Cdx2 homeobox genes in a murine model of intestinal inflammation. <i>Gut</i> , 2007 , 56, 1688-95	19.2	29
73	Regulation of the tumor suppressor homeogene Cdx2 by HNF4 α in intestinal cancer. <i>Oncogene</i> , 2013 , 32, 3782-8	9.2	28
72	Subepithelial fibroblast cell lines from different levels of gut axis display regional characteristics. <i>American Journal of Physiology - Renal Physiology</i> , 1998 , 274, G945-54	5.1	28
71	Molecular organization of the rudimentary gene of <i>Drosophila melanogaster</i> . <i>Journal of Molecular Biology</i> , 1986 , 189, 25-36	6.5	28

70	Understanding epithelial homeostasis in the intestine: An old battlefield of ideas, recent breakthroughs and remaining controversies. <i>Tissue Barriers</i> , 2013 , 1, e24965	4.3	27
69	The tumor suppressor Apc controls planar cell polarities central to gut homeostasis. <i>Journal of Cell Biology</i> , 2012 , 198, 331-41	7.3	27
68	Control of differentiation-induced calbindin-D9k gene expression in Caco-2 cells by cdx-2 and HNF-1alpha. <i>American Journal of Physiology - Renal Physiology</i> , 2004 , 287, G943-53	5.1	27
67	Stimulation of Cdx1 by oncogenic beta-catenin/Tcf4 in colon cancer cells; opposite effect of the CDX2 homeoprotein. <i>FEBS Letters</i> , 2002 , 518, 83-7	3.8	27
66	Cdx1, a dispensable homeobox gene for gut development with limited effect in intestinal cancer. <i>Oncogene</i> , 2008 , 27, 4497-502	9.2	26
65	Cdx1 homeobox gene during human colon cancer progression. <i>Oncogene</i> , 2003 , 22, 7913-21	9.2	25
64	The Cdx2 homeobox gene suppresses intestinal tumorigenesis through non-cell-autonomous mechanisms. <i>Journal of Experimental Medicine</i> , 2018 , 215, 911-926	16.6	24
63	Homeodomain protein CDX2 regulates COX-2 expression in colorectal cancer. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 315, 93-9	3.4	24
62	The homeobox gene Cdx1 belongs to the p53-p21(WAF)-Bcl-2 network in intestinal epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 297, 607-15	3.4	24
61	The tumor suppressor CDX2 opposes pro-metastatic biomechanical modifications of colon cancer cells through organization of the actin cytoskeleton. <i>Cancer Letters</i> , 2017 , 386, 57-64	9.9	23
60	The microenvironment controls CDX2 homeobox gene expression in colorectal cancer cells. <i>American Journal of Pathology</i> , 2007 , 170, 733-44	5.8	22
59	Immunohistochemical expression of CDX2, E-catenin, and TP53 in inflammatory bowel disease-associated colorectal cancer. <i>Inflammatory Bowel Diseases</i> , 2011 , 17, 232-40	4.5	21
58	Frequent rearrangements and amplification of the CDX2 homeobox gene in human sporadic colorectal cancers with chromosomal instability. <i>Cancer Letters</i> , 2007 , 247, 197-203	9.9	21
57	Gastric intrinsic factor deficiency with combined GIF heterozygous mutations and FUT2 secretor variant. <i>Biochimie</i> , 2013 , 95, 995-1001	4.6	20
56	Targeted apc;twist double-mutant mice: a new model of spontaneous osteosarcoma that mimics the human disease. <i>Translational Oncology</i> , 2010 , 3, 344-53	4.9	20
55	Inflammatory bowel disease in rats: bacterial and chemical interaction. <i>World Journal of Gastroenterology</i> , 2008 , 14, 4028-39	5.6	20
54	Anticancer activity of ruthenium and osmium cyclometalated compounds: identification of ABCB1 and EGFR as resistance mechanisms. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 678-688	6.8	20
53	Cdx2 homeoprotein inhibits non-homologous end joining in colon cancer but not in leukemia cells. <i>Nucleic Acids Research</i> , 2012 , 40, 3456-69	20.1	19

52	Expression and localisation of insulin receptor substrate 2 in normal intestine and colorectal tumours. Regulation by intestine-specific transcription factor CDX2. <i>Gut</i> , 2009 , 58, 1250-9	19.2	19
51	A redox ruthenium compound directly targets PHD2 and inhibits the HIF1 pathway to reduce tumor angiogenesis independently of p53. <i>Cancer Letters</i> , 2019 , 440-441, 145-155	9.9	19
50	Enhanced Ghrelin Levels and Hypothalamic Orexigenic AgRP and NPY Neuropeptide Expression in Models of Jejuno-Colonic Short Bowel Syndrome. <i>Scientific Reports</i> , 2016 , 6, 28345	4.9	18
49	Increasing the oxygen load by treatment with myo-inositol trispyrophosphate reduces growth of colon cancer and modulates the intestine homeobox gene Cdx2. <i>Oncogene</i> , 2013 , 32, 4313-8	9.2	17
48	Pathophysiology of intestinal metaplasia of the stomach: emphasis on CDX2 regulation. <i>Biochemical Society Transactions</i> , 2010 , 38, 358-63	5.1	17
47	Cell guidance into quiescent state through chromatin remodeling induced by elastic modulus of substrate. <i>Biomaterials</i> , 2015 , 37, 144-55	15.6	16
46	Differential regulation of CDX1 and CDX2 gene expression by deficiency in methyl group donors. <i>Biochimie</i> , 2008 , 90, 697-704	4.6	15
45	Multiple-contrast X-ray micro-CT visualization of colon malformations and tumours in situ in living mice. <i>Comptes Rendus - Biologies</i> , 2007 , 330, 821-7	1.4	15
44	Promotion of intestinal carcinogenesis by dietary methionine. <i>Carcinogenesis</i> , 1999 , 20, 493-7	4.6	15
43	The control of chromosome segregation during mitosis in epithelial cells by substrate elasticity. <i>Biomaterials</i> , 2012 , 33, 798-809	15.6	14
42	Anchoring secreted proteins in endoplasmic reticulum by plant oleosin: the example of vitamin B12 cellular sequestration by transcobalamin. <i>PLoS ONE</i> , 2009 , 4, e6325	3.7	14
41	Actomyosin, vimentin and LINC complex pull on osteosarcoma nuclei to deform on micropillar topography. <i>Biomaterials</i> , 2020 , 234, 119746	15.6	14
40	Endoderm- and mesenchyme-dependent commitment of the differentiated epithelial cell types in the developing intestine of rat. <i>Differentiation</i> , 2003 , 71, 163-9	3.5	13
39	Verification of the lactase site of rat lactase-phlorizin hydrolase by site-directed mutagenesis. <i>Gastroenterology</i> , 1995 , 109, 1234-40	13.3	13
38	Organization of transcription units around the <i>Drosophila melanogaster</i> rudimentary locus and temporal pattern of expression. <i>Molecular Genetics and Genomics</i> , 1986 , 202, 493-9		13
37	Extending the functions of the homeotic transcription factor Cdx2 in the digestive system through nontranscriptional activities. <i>World Journal of Gastroenterology</i> , 2015 , 21, 1436-43	5.6	13
36	Functional diversity and interactions between the repeat domains of rat intestinal lactase. <i>Biochemical Journal</i> , 1997 , 327 (Pt 1), 95-103	3.8	12
35	Precancerous lesions upon sporadic activation of beta-catenin in mice. <i>Gastroenterology</i> , 2007 , 132, 1299-308	13.9	12

34	Transcriptional regulation of the intestinal nuclear bile acid farnesoid X receptor (FXR) by the caudal-related homeobox 2 (CDX2). <i>Journal of Biological Chemistry</i> , 2014 , 289, 28421-32	5.4	11
33	Intestinal lactase as an autologous beta-galactosidase reporter gene for in vivo gene expression studies. <i>Human Gene Therapy</i> , 2009 , 20, 21-30	4.8	11
32	Adaptation of intestinal hydrolases to starvation in rats: effect of thyroid function. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1991 , 161, 357-61	2.2	11
31	TAF4 inactivation reveals the 3 dimensional growth promoting activities of collagen 6A3. <i>PLoS ONE</i> , 2014 , 9, e87365	3.7	11
30	Fine-tuning and autoregulation of the intestinal determinant and tumor suppressor homeobox gene CDX2 by alternative splicing. <i>Cell Death and Differentiation</i> , 2017 , 24, 2173-2186	12.7	10
29	The rat LPH gene 5Tregion: comparative structure with the human gene. <i>DNA Sequence</i> , 1992 , 3, 119-21		10
28	Derivatives of plant beta-glucans are hydrolyzed by intestinal lactase-phlorizin hydrolase of mammals. <i>Enzyme</i> , 1991 , 45, 71-4		10
27	Ultrastructural study of intestinal lactase gene expression. <i>Biology of the Cell</i> , 1995 , 83, 211-7	3.5	9
26	The cis-element CE-LPH1 of the rat intestinal lactase gene promoter interacts in vitro with several nuclear factors present in endodermal tissues. <i>FEBS Letters</i> , 1994 , 353, 108-12	3.8	9
25	Histone hypoacetylation contributes to CXCL12 downregulation in colon cancer: impact on tumor growth and cell migration. <i>Oncotarget</i> , 2017 , 8, 38351-38366	3.3	9
24	Chromatin de-condensation by switching substrate elasticity. <i>Scientific Reports</i> , 2018 , 8, 12655	4.9	9
23	Distinct mechanisms for opposite functions of homeoproteins Cdx2 and HoxB7 in double-strand break DNA repair in colon cancer cells. <i>Cancer Letters</i> , 2016 , 374, 208-15	9.9	7
22	Functional interaction between the homeoprotein CDX1 and the transcriptional machinery containing the TATA-binding protein. <i>Nucleic Acids Research</i> , 2007 , 35, 175-85	20.1	7
21	CDX2 in congenital gut gastric-type heteroplasia and intestinal-type Meckel diverticula. <i>Pediatrics</i> , 2010 , 126, e723-7	7.4	6
20	Concerted involvement of Cdx/Hox genes and Wnt signaling in morphogenesis of the caudal neural tube and cloacal derivatives from the posterior growth zone. <i>Development (Cambridge)</i> , 2011 , 138, 3859-3859	6.6	6
19	Precocious and reversible expression of sucrase-isomaltase unrelated to intestinal cell turnover. <i>American Journal of Physiology - Renal Physiology</i> , 1994 , 266, G568-75	5.1	6
18	Renin-angiotensin system is involved in embryonic emergence of hematopoietic stem/progenitor cells. <i>Stem Cells</i> , 2021 , 39, 636-649	5.8	6
17	Identification of homologues of the mammalian intestinal lactase gene in non-mammals (birds and molluscs). <i>Biochemical Journal</i> , 1997 , 322 (Pt 2), 491-8	3.8	4

16	Differentially expressed endoderm and mesenchyme genes along the fetal rat intestine. <i>Genesis</i> , 2001 , 29, 55-59	1.9	4
15	The atypical cadherin MUCDHL antagonizes colon cancer formation and inhibits oncogenic signaling through multiple mechanisms. <i>Oncogene</i> , 2021 , 40, 522-535	9.2	4
14	Contribution of soft substrates to malignancy and tumor suppression during colon cancer cell division. <i>PLoS ONE</i> , 2013 , 8, e78468	3.7	3
13	Murine intestinal stem cells are highly sensitive to modulation of the T3/TR β -dependent pathway. <i>Development (Cambridge)</i> , 2021 , 148,	6.6	3
12	CDX2 expression in the hematopoietic lineage promotes leukemogenesis via TGF β inhibition. <i>Molecular Oncology</i> , 2021 , 15, 2318-2329	7.9	3
11	Severe head dysgenesis resulting from imbalance between anterior and posterior ontogenetic programs. <i>Cell Death and Disease</i> , 2019 , 10, 812	9.8	2
10	CDX2 inducible microRNAs sustain colon cancer by targeting multiple DNA damage response pathway factors. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	2
9	CDX2 controls genes involved in the metabolism of 5-fluorouracil and is associated with reduced efficacy of chemotherapy in colorectal cancer.. <i>Biomedicine and Pharmacotherapy</i> , 2022 , 147, 112630	7.5	1
8	Mesalazine initiates an anti-oncogenic Eatenin / MUCDHL negative feed-back loop in colon cancer cells by cell-specific mechanisms.. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 146, 112543	7.5	1
7	CDX2 regulates ACE expression in blood development and leukemia cells. <i>Blood Advances</i> , 2021 , 5, 2012-2016	7.2	1
6	Temporal multiomic modeling reveals a B-cell receptor proliferative program in chronic lymphocytic leukemia. <i>Leukemia</i> , 2021 , 35, 1463-1474	10.7	1
5	Deciphering the Role of Intestinal Crypt Cell Populations in Resistance to Chemotherapy. <i>Cancer Research</i> , 2021 , 81, 2730-2744	10.1	1
4	A Core Response to the CDX2 Homeoprotein During Development and in Pathologies. <i>Frontiers in Genetics</i> , 2021 , 12, 744165	4.5	0
3	A Core Proliferative Program Induced By B-Cell Receptor Stimulation in Chronic Lymphocytic Leukemia Cells. <i>Blood</i> , 2019 , 134, 3777-3777	2.2	
2	Estimation of subject coregistration errors during multimodal preclinical imaging using separate instruments: origins and avoidance of artifacts. <i>Journal of Medical Imaging</i> , 2017 , 4, 035503	2.6	
1	INTESTINAL LACTASE AS AN AUTOLOGOUS β -GALACTOSIDASE REPORTER GENE FOR IN VIVO GENE EXPRESSION STUDIES. <i>Human Gene Therapy</i> , 2008 , 081015093227032	4.8	