

# Rainer L Heuchel

## List of Publications by Year in descending order

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68  
papers

6,190  
citations

117571

34  
h-index

102432

66  
g-index

70  
all docs

70  
docs citations

70  
times ranked

8694  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D heterospecies spheroids of pancreatic stroma and cancer cells demonstrate key phenotypes of pancreatic ductal adenocarcinoma. <i>Translational Oncology</i> , 2021, 14, 101107.	1.7	8
2	Pancreatic Ductal Adenocarcinoma: Preclinical in vitro and ex vivo Models. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 741162.	1.8	18
3	Stabilization of the classical phenotype upon integration of pancreatic cancer cells into the duodenal epithelium. <i>Neoplasia</i> , 2021, 23, 1300-1306.	2.3	2
4	Targeting of Smad7 in Mesenchymal Cells Does Not Exacerbate Fibrosis During Experimental Chronic Pancreatitis. <i>Pancreas</i> , 2021, 50, 1427-1434.	0.5	0
5	Multimodal Imaging of Pancreatic Ductal Adenocarcinoma Using Multifunctional Nanoparticles as Contrast Agents. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53665-53681.	4.0	19
6	The vitamin D analogue calcipotriol promotes an anti-tumorigenic phenotype of human pancreatic CAFs but reduces T cell mediated immunity. <i>Scientific Reports</i> , 2020, 10, 17444.	1.6	49
7	Tamoxifen affects chronic pancreatitis-related fibrogenesis in an experimental mouse model: an effect beyond Cre recombination. <i>FEBS Open Bio</i> , 2019, 9, 1756-1768.	1.0	10
8	Immunohistochemical profiling of liver metastases and matched-pair analysis in patients with metastatic pancreatic ductal adenocarcinoma. <i>Pancreatology</i> , 2019, 19, 963-970.	0.5	3
9	Smad7 is required for normal macrophage function in experimental chronic pancreatitis. <i>Pancreatology</i> , 2019, 19, S28-S29.	0.5	0
10	Role of c-MET Inhibitors in Overcoming Drug Resistance in Spheroid Models of Primary Human Pancreatic Cancer and Stellate Cells. <i>Cancers</i> , 2019, 11, 638.	1.7	57
11	Human Cell Encapsulation in Gel Microbeads with Cosynthesized Concentric Nanoporous Solid Shells. <i>Advanced Functional Materials</i> , 2018, 28, 1707129.	7.8	12
12	Fibroblast drug scavenging increases intratumoural gemcitabine accumulation in murine pancreas cancer. <i>Gut</i> , 2018, 67, 497-507.	6.1	151
13	Overcoming diagnostic issues in precision treatment of pancreatic cancer. <i>Expert Review of Precision Medicine and Drug Development</i> , 2018, 3, 189-195.	0.4	1
14	RCAN1 is a marker of oxidative stress, induced in acute pancreatitis. <i>Pancreatology</i> , 2018, 18, 734-741.	0.5	29
15	Peptide microarray-based characterization of antibody responses to host proteins after bacille Calmette-Guérin vaccination. <i>International Journal of Infectious Diseases</i> , 2017, 56, 140-154.	1.5	21
16	Discrimination of pancreatic cancer and pancreatitis by LC-MS metabolomics. <i>Metabolomics</i> , 2017, 13, 61.	1.4	42
17	A Preliminary Report: Radical Surgery and Stem Cell Transplantation for the Treatment of Patients With Pancreatic Cancer. <i>Journal of Immunotherapy</i> , 2017, 40, 132-139.	1.2	5
18	Stroma-regulated HMGA2 is an independent prognostic marker in PDAC and AAC. <i>British Journal of Cancer</i> , 2017, 117, 65-77.	2.9	30

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19	Bioinformatory-assisted analysis of next-generation sequencing data for precision medicine in pancreatic cancer. <i>Molecular Oncology</i> , 2017, 11, 1413-1429.	2.1	20
20	Pdx1-Cre-driven conditional gene depletion suggests PAK4 as dispensable for mouse pancreas development. <i>Scientific Reports</i> , 2017, 7, 7031.	1.6	4
21	Immunohistochemical Typing of Adenocarcinomas of the Pancreatobiliary System Improves Diagnosis and Prognostic Stratification. <i>PLoS ONE</i> , 2016, 11, e0166067.	1.1	34
22	Cerulein-induced pancreatic fibrosis is modulated by Smad7, the major negative regulator of transforming growth factor- $\beta$ signaling. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 1839-1846.	1.8	11
23	Endoscopic papillectomy and KRAS expression in the treatment of adenoma in the major duodenal papilla. <i>Scandinavian Journal of Gastroenterology</i> , 2015, 50, 1419-1427.	0.6	8
24	Fluorescence labeled microbubbles for multimodal imaging. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 737-742.	1.0	27
25	Variant Profiling of Candidate Genes in Pancreatic Ductal Adenocarcinoma. <i>Clinical Chemistry</i> , 2015, 61, 1408-1416.	1.5	21
26	Real-Time Assessment of Tissue Hypoxia <i>In Vivo</i> with Combined Photoacoustics and High-Frequency Ultrasound. <i>Theranostics</i> , 2014, 4, 604-613.	4.6	114
27	Desmoplasia and Chemoresistance in Pancreatic Cancer. <i>Cancers</i> , 2014, 6, 2137-2154.	1.7	121
28	Age-dependent and differential effects of Smad7 <sup>Ex1</sup> on neural progenitor cell proliferation and on neurogenesis. <i>Experimental Gerontology</i> , 2014, 57, 149-154.	1.2	13
29	3D pancreatic carcinoma spheroids induce a matrix-rich, chemoresistant phenotype offering a better model for drug testing. <i>BMC Cancer</i> , 2013, 13, 95.	1.1	301
30	Inhibitory role of Smad7 in hepatocarcinogenesis in mice and <i>in vitro</i> . <i>Journal of Pathology</i> , 2013, 230, 441-452.	2.1	38
31	Smad7 regulates terminal maturation of chondrocytes in the growth plate. <i>Developmental Biology</i> , 2013, 382, 375-384.	0.9	35
32	Deficiency of Smad7 Enhances Cardiac Remodeling Induced by Angiotensin II Infusion in a Mouse Model of Hypertension. <i>PLoS ONE</i> , 2013, 8, e70195.	1.1	38
33	Disruption of Smad7 Promotes ANG II-Mediated Renal Inflammation and Fibrosis via Sp1-TGF- $\beta$ /Smad3-NF- $\kappa$ B-Dependent Mechanisms in Mice. <i>PLoS ONE</i> , 2013, 8, e53573.	1.1	86
34	Nodal/Activin Signaling Drives Self-Renewal and Tumorigenicity of Pancreatic Cancer Stem Cells and Provides a Target for Combined Drug Therapy. <i>Cell Stem Cell</i> , 2011, 9, 433-446.	5.2	366
35	The Protective Role of Smad7 in Diabetic Kidney Disease: Mechanism and Therapeutic Potential. <i>Diabetes</i> , 2011, 60, 590-601.	0.3	202
36	Hypoxic Pulmonary Hypertension in Mice with Constitutively Active Platelet-Derived Growth Factor Receptor- $\beta$ . <i>Pulmonary Circulation</i> , 2011, 1, 259-268.	0.8	44

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37	Multiple Phenotypes in Adult Mice following Inactivation of the Coxsackievirus and Adenovirus Receptor (Car) Gene. <i>PLoS ONE</i> , 2011, 6, e20203.	1.1	46
38	CIN85 regulates dopamine receptor endocytosis and governs behaviour in mice. <i>EMBO Journal</i> , 2010, 29, 2421-2432.	3.5	34
39	Smad7 Regulates the Adult Neural Stem/Progenitor Cell Pool in a Transforming Growth Factor $\beta$ 2- and Bone Morphogenetic Protein-Independent Manner. <i>Molecular and Cellular Biology</i> , 2010, 30, 3685-3694.	1.1	23
40	The human $\alpha$ 11 integrin promoter drives fibroblast-restricted expression in vivo and is regulated by TGF- $\beta$ 1 in a Smad- and Sp1-dependent manner. <i>Matrix Biology</i> , 2010, 29, 166-176.	1.5	44
41	Disruption of the Smad7 gene promotes renal fibrosis and inflammation in unilateral ureteral obstruction (UUO) in mice. <i>Nephrology Dialysis Transplantation</i> , 2009, 24, 1443-1454.	0.4	160
42	Therapy with Cell Encapsulation for Substitution of Organ Function and Tumor Treatment. <i>Advanced Engineering Materials</i> , 2009, 11, B129.	1.6	2
43	Therapy with Cell Encapsulation for Substitution of Organ Function and Tumor Treatment (Adv. Eng.) <i>Tj ETQq1 1 0.784314 rgBT /Ove</i>	1.6	0
44	A gain-of-function mutation in the PDGFR- $\beta$ 2 alters the kinetics of injury response in liver and skin. <i>Laboratory Investigation</i> , 2008, 88, 1204-1214.	1.7	14
45	Disruption of the Smad7 gene enhances CCl <sub>4</sub> -dependent liver damage and fibrogenesis in mice. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 2130-2144.	1.6	54
46	Platelet-Derived Growth Factor Receptor- $\beta$ 2 Constitutive Activity Promotes Angiogenesis In Vivo and In Vitro. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 2142-2149.	1.1	72
47	An activating mutation in the PDGF receptor-beta causes abnormal morphology in the mouse placenta. <i>International Journal of Developmental Biology</i> , 2007, 51, 361-370.	0.3	15
48	Profibrogenic transforming growth factor- $\beta$ 2/activin receptor-like kinase 5 signaling via connective tissue growth factor expression in hepatocytes. <i>Hepatology</i> , 2007, 46, 1257-1270.	3.6	109
49	Platelet-derived growth factor receptor- $\beta$ 2, carrying the activating mutation D849N, accelerates the establishment of B16 melanoma. <i>BMC Cancer</i> , 2007, 7, 224.	1.1	17
50	Expression and Function of the Gene Encoding the Voltage-Dependent Calcium Channel $\beta$ 3-Subunit in the Mouse Placenta. <i>Placenta</i> , 2007, 28, 412-420.	0.7	3
51	Tandem Sp1/Sp3 sites together with an Ets-1 site cooperate to mediate $\alpha$ 11 integrin chain expression in mesenchymal cells. <i>Matrix Biology</i> , 2006, 25, 118-129.	1.5	27
52	Platelet-derived growth factor receptor- $\beta$ 2 promotes early endothelial cell differentiation. <i>Blood</i> , 2006, 108, 1877-1886.	0.6	83
53	Deletion of Exon I of SMAD7 in Mice Results in Altered B Cell Responses. <i>Journal of Immunology</i> , 2006, 176, 6777-6784.	0.4	75
54	A Gain of Function Mutation in the Activation Loop of Plateletderived Growth Factor $\beta$ 2-Receptor Deregulates Its Kinase Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 42516-42527.	1.6	23

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55	Platelet-Derived Growth Factor Production by B16 Melanoma Cells Leads to Increased Pericyte Abundance in Tumors and an Associated Increase in Tumor Growth Rate. <i>Cancer Research</i> , 2004, 64, 2725-2733.	0.4	174
56	Transient activation of NF- $\kappa$ B through a TAK1/IKK kinase pathway by TGF- $\beta$ 1 inhibits AP-1/SMAD signaling and apoptosis: implications in liver tumor formation. <i>Oncogene</i> , 2003, 22, 412-425.	2.6	139
57	The nucleotides responsible for the direct physical contact between the chromatin insulator protein CTCF and the H19 imprinting control region manifest parent of origin-specific long-distance insulation and methylation-free domains. <i>Genes and Development</i> , 2003, 17, 586-590.	2.7	137
58	Transforming Growth Factor- $\beta$ 1 (TGF- $\beta$ 1) Induced Apoptosis of Prostate Cancer Cells Involves Smad7-dependent Activation of p38 by TGF- $\beta$ 1-activated Kinase 1 and Mitogen-activated Protein Kinase 3. <i>Molecular Biology of the Cell</i> , 2003, 14, 529-544.	0.9	213
59	Efficient TGF- $\beta$ 2 Induction of the Smad7 Gene Requires Cooperation between AP-1, Sp1, and Smad Proteins on the Mouse Smad7 Promoter. <i>Journal of Biological Chemistry</i> , 2000, 275, 29023-29030.	1.6	144
60	Retention of PDGFR-beta function in mice in the absence of phosphatidylinositol 3'-kinase and phospholipase Cgamma signaling pathways. <i>Genes and Development</i> , 2000, 14, 3179-3190.	2.7	69
61	Platelet-derived growth factor beta receptor regulates interstitial fluid homeostasis through phosphatidylinositol-3' kinase signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 11410-11415.	3.3	169
62	Embryonic lethality and liver degeneration in mice lacking the metal-responsive transcriptional activator MTF-1. <i>EMBO Journal</i> , 1998, 17, 2846-2854.	3.5	237
63	Identification of Smad7, a TGF- $\beta$ 2-inducible antagonist of TGF- $\beta$ 2 signalling. <i>Nature</i> , 1997, 389, 631-635.	13.7	1,684
64	Regulation of metallothionein gene expression in Cd- or Zn-adapted RK-13 cells. <i>Experientia</i> , 1995, 51, 606-611.	1.2	8
65	Cloning, chromosomal mapping and characterization of the human metal-regulatory transcription factor MTF-1. <i>Nucleic Acids Research</i> , 1994, 22, 3167-3173.	6.5	196
66	Thionein (apometallothionein) can modulate DNA binding and transcription activation by zinc finger containing factor Spl. <i>FEBS Letters</i> , 1991, 279, 310-312.	1.3	240
67	Two closely spaced promoters are equally activated by a remote enhancer: evidence against a scanning model for enhancer action. <i>Nucleic Acids Research</i> , 1989, 17, 8931-8947.	6.5	22
68	Increased bactericidal macrophage activity induced by immunological stimuli is dependent on interferon (IFN)- $\gamma$ . <i>European Journal of Immunology</i> , 1988, 18, 1295-1298.	1.6	14