

# Roman Thaler

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

902  
citations

430874

18  
h-index

477307

29  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1299  
citing authors

#	ARTICLE	IF	CITATIONS
1	Brd4 is required for chondrocyte differentiation and endochondral ossification. <i>Bone</i> , 2022, 154, 116234.	2.9	13
2	Intra-articular celecoxib improves knee extension regardless of surgical release in a rabbit model of arthrofibrosis. <i>Bone and Joint Research</i> , 2022, 11, 32-39.	3.6	6
3	Human outgrowth knee fibroblasts from patients undergoing total knee arthroplasty exhibit a unique gene expression profile and undergo myofibroblastogenesis upon TGF $\beta$ 1 stimulation. <i>Journal of Cellular Biochemistry</i> , 2022, 123, 878-892.	2.6	4
4	Renal Ischemia Induces Epigenetic Changes in Apoptotic, Proteolytic, and Mitochondrial Genes in Swine Scattered Tubular-like Cells. <i>Cells</i> , 2022, 11, 1803.	4.1	5
5	Global epigenetic alterations of mesenchymal stem cells in obesity: the role of vitamin C reprogramming. <i>Epigenetics</i> , 2021, 16, 705-717.	2.7	14
6	Autogenous Arteriovenous Bundle Implantation Maintains Viability Without Increased Immune Response in Large Porcine Bone Allografts. <i>Transplantation Proceedings</i> , 2021, 53, 417-426.	0.6	1
7	Biological functions of chromobox (CBX) proteins in stem cell self-renewal, lineage-commitment, cancer and development. <i>Bone</i> , 2021, 143, 115659.	2.9	52
8	Gene expression profiles of human adipose-derived mesenchymal stem cells dynamically seeded on clinically available processed nerve allografts and collagen nerve guides. <i>Neural Regeneration Research</i> , 2021, 16, 1613.	3.0	7
9	Constitutive activation of NF- $\kappa$ B inducing kinase (NIK) in the mesenchymal lineage using Osterix (Sp7)- or Fibroblast-specific protein 1 (S100a4)-Cre drives spontaneous soft tissue sarcoma. <i>PLoS ONE</i> , 2021, 16, e0254426.	2.5	4
10	Surface Roughness of Titanium Orthopedic Implants Alters the Biological Phenotype of Human Mesenchymal Stromal Cells. <i>Tissue Engineering - Part A</i> , 2021, 27, 1503-1516.	3.1	14
11	Multiple pharmacological inhibitors targeting the epigenetic suppressor enhancer of zeste homolog 2 (Ezh2) accelerate osteoblast differentiation. <i>Bone</i> , 2021, 150, 115993.	2.9	25
12	Challenges in the Measurement and Interpretation of Serum Titanium Concentrations. <i>Biological Trace Element Research</i> , 2020, 196, 20-26.	3.5	10
13	Neo- $\kappa$ Angiogenesis, Transplant Viability, and Molecular Analyses of Vascularized Bone Allografts in a Large Animal Model. <i>Journal of Orthopaedic Research</i> , 2020, 38, 288-296.	2.3	4
14	The epigenetic reader Brd4 is required for osteoblast differentiation. <i>Journal of Cellular Physiology</i> , 2020, 235, 5293-5304.	4.1	21
15	Molecular pathology of human knee arthrofibrosis defined by RNA sequencing. <i>Genomics</i> , 2020, 112, 2703-2712.	2.9	28
16	Inhibition of the epigenetic suppressor EZH2 primes osteogenic differentiation mediated by BMP2. <i>Journal of Biological Chemistry</i> , 2020, 295, 7877-7893.	3.4	51
17	Extracellular vesicles from osteosarcoma cell lines contain miRNAs associated with cell adhesion and apoptosis. <i>Gene</i> , 2019, 710, 246-257.	2.2	44
18	A multi-chamber tissue culture device for load-dependent parallel evaluation of tendon explants. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 549.	1.9	1

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19	The cancer-related transcription factor RUNX2 modulates expression and secretion of the matricellular protein osteopontin in osteosarcoma cells to promote adhesion to endothelial pulmonary cells and lung metastasis. <i>Journal of Cellular Physiology</i> , 2019, 234, 13659-13679.	4.1	43
20	In Vivo Survival of Mesenchymal Stromal Cell-Enhanced Decellularized Nerve Grafts for Segmental Peripheral Nerve Reconstruction. <i>Journal of Hand Surgery</i> , 2019, 44, 514.e1-514.e11.	1.6	16
21	Molecular pathology of adverse local tissue reaction caused by metal-on-metal implants defined by RNA-seq. <i>Genomics</i> , 2019, 111, 1404-1411.	2.9	12
22	Enhancer of zeste homolog 2 (Ezh2) controls bone formation and cell cycle progression during osteogenesis in mice. <i>Journal of Biological Chemistry</i> , 2018, 293, 12894-12907.	3.4	63
23	Expression of the ectodomain-releasing protease ADAM17 is directly regulated by the osteosarcoma and bone-related transcription factor RUNX2. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 8204-8219.	2.6	20
24	Profiling of human epigenetic regulators using a semi-automated real-time qPCR platform validated by next generation sequencing. <i>Gene</i> , 2017, 609, 28-37.	2.2	25
25	Improved Post-Thaw Function and Epigenetic Changes in Mesenchymal Stromal Cells Cryopreserved Using Multicomponent Osmolyte Solutions. <i>Stem Cells and Development</i> , 2017, 26, 828-842.	2.1	38
26	Histone H4 Methyltransferase Suv420h2 Maintains Fidelity of Osteoblast Differentiation. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 1262-1272.	2.6	25
27	Wnt/ $\beta$ -Catenin Signaling Activates Expression of the Bone-Related Transcription Factor RUNX2 in Select Human Osteosarcoma Cell Types. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 3662-3674.	2.6	49
28	Local Cellular Responses to Titanium Dioxide from Orthopedic Implants. <i>BioResearch Open Access</i> , 2017, 6, 94-103.	2.6	29
29	Proteomic Analysis of Exosomes and Exosome-Free Conditioned Media From Human Osteosarcoma Cell Lines Reveals Secretion of Proteins Related to Tumor Progression. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 351-360.	2.6	68
30	Statin and Bisphosphonate Induce Starvation in Fast-Growing Cancer Cell Lines. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1982.	4.1	7
31	Mitotic Inheritance of mRNA Facilitates Translational Activation of the Osteogenic-Lineage Commitment Factor Runx2 in Progeny of Osteoblastic Cells. <i>Journal of Cellular Physiology</i> , 2016, 231, 1001-1014.	4.1	16
32	Multi-disciplinary antimicrobial strategies for improving orthopaedic implants to prevent prosthetic joint infections in hip and knee. <i>Journal of Orthopaedic Research</i> , 2016, 34, 177-186.	2.3	55
33	Anabolic and Antiresorptive Modulation of Bone Homeostasis by the Epigenetic Modulator Sulforaphane, a Naturally Occurring Isothiocyanate. <i>Journal of Biological Chemistry</i> , 2016, 291, 6754-6771.	3.4	60
34	Osteogenic potential of human adipose-tissue-derived mesenchymal stromal cells cultured on 3D-printed porous structured titanium. <i>Gene</i> , 2016, 581, 95-106.	2.2	25
35	Acute-phase protein serum amyloid A3 is a novel paracrine coupling factor that controls bone homeostasis. <i>FASEB Journal</i> , 2015, 29, 1344-1359.	0.5	25
36	Control of bone development by P2X and P2Y receptors expressed in mesenchymal and hematopoietic cells. <i>Gene</i> , 2015, 570, 1-7.	2.2	22