Clemens Lowik

List of Publications by Year
in descending order

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Version: 2024-02-01

51 papers	3,297 citations	186265 28 h-index	197818 49 g-index
51 all docs	51 docs citations	51 times ranked	3868 citing authors

#	Article	IF	Citations
1	Farnesyl Pyrophosphate Synthase Is the Molecular Target of Nitrogen-Containing Bisphosphonates. Biochemical and Biophysical Research Communications, 1999, 264, 108-111.	2.1	464
2	In vivo imaging of transcriptionally active estrogen receptors. Nature Medicine, 2003, 9, 82-86.	30.7	273
3	CD40-targeted dendritic cell delivery of PLGA-nanoparticle vaccines induce potent anti-tumor responses. Biomaterials, 2015, 40, 88-97.	11.4	235
4	The Role of Geranylgeranylation in Bone Resorption and Its Suppression by Bisphosphonates in Fetal Bone Explants In Vitro: A Clue to the Mechanism of Action of Nitrogen-Containing Bisphosphonates. Journal of Bone and Mineral Research, 1999, 14, 722-729.	2.8	216
5	Nitrogen-Containing Bisphosphonates Inhibit Isopentenyl Pyrophosphate Isomerase/Farnesyl Pyrophosphate Synthase Activity with Relative Potencies Corresponding to Their Antiresorptive Potenciesin Vitroandin Vivo. Biochemical and Biophysical Research Communications, 1999, 255, 491-494.	2.1	191
6	Nasal vaccination with N-trimethyl chitosan and PLGA based nanoparticles: Nanoparticle characteristics determine quality and strength of the antibody response in mice against the encapsulated antigen. Vaccine, 2010, 28, 6282-6291.	3.8	176
7	Monitoring Metastatic Behavior of Human Tumor Cells in Mice with Speciesâ€Specific Polymerase Chain Reaction: Elevated Expression of Angiogenesis and Bone Resorption Stimulators by Breast Cancer in Bone Metastases. Journal of Bone and Mineral Research, 2001, 16, 1077-1091.	2.8	117
8	Structural requirements for bisphosphonate actions in vitro. Journal of Bone and Mineral Research, 1994, 9, 1875-1882.	2.8	117
9	Click beetle luciferase mutant and near infrared naphthyl-luciferins for improved bioluminescence imaging. Nature Communications, 2018, 9, 132.	12.8	101
10	Urokinase-Receptor/Integrin Complexes Are Functionally Involved in Adhesion and Progression of Human Breast Cancer in Vivo. American Journal of Pathology, 2001, 159, 971-982.	3.8	97
11	Two Distinct Effects of Recombinant Human Tumor Necrosis Factor-a on Osteoclast Development and Subsequent Resorption of Mineralized Matrix*. Endocrinology, 1991, 129, 1596-1604.	2.8	95
12	Modulation of IL-6 Production of IL-1 Activity by Keratinocyte-Fibroblast Interaction. Journal of Investigative Dermatology, 1993, 101, 316-324.	0.7	90
13	Sensitive Dual Color In Vivo Bioluminescence Imaging Using a New Red Codon Optimized Firefly Luciferase and a Green Click Beetle Luciferase. PLoS ONE, 2011, 6, e19277.	2.5	88
14	Dissociation of binding and antiresorptive properties of hydroxybisphosphonates by substitution of the hydroxyl with an amino group. Journal of Bone and Mineral Research, 1996, 11, 1492-1497.	2.8	84
15	Role of trimethylated chitosan (TMC) in nasal residence time, local distribution and toxicity of an intranasal influenza vaccine. Journal of Controlled Release, 2010, 144, 17-24.	9.9	61
16	Evaluating reporter genes of different luciferases for optimized in vivo bioluminescence imaging of transplanted neural stem cells in the brain. Contrast Media and Molecular Imaging, 2013, 8, 505-513.	0.8	60
17	Effect of Angiogenic and Antiangiogenic Compounds on the Outgrowth of Capillary Structures from Fetal Mouse Bone Explants. Laboratory Investigation, 2001, 81, 5-15.	3.7	54
18	Antigenâ"Adjuvant Nanoconjugates for Nasal Vaccination: An Improvement over the Use of Nanoparticles?. Molecular Pharmaceutics, 2010, 7, 2207-2215.	4.6	54

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19	Leukemia inhibitory factor inhibits osteoclastic resorption, growth, mineralization, and alkaline phosphatase activity in fetal mouse metacarpal bones in culture. Journal of Bone and Mineral Research, 1993, 8, 191-198.	2.8	51
20	Ceramic hydroxyapatite implants for the release of bisphosphonate. Bone and Mineral, 1994, 25, 123-134.	1.9	49
21	A multi-modality platform to image stem cell graft survival in the naÃ¯ve and stroke-damaged mouse brain. Biomaterials, 2014, 35, 2218-2226.	11.4	47
22	In vitro and Ex vivo evidence that estrogens suppress increased bone resorption induced by ovariectomy or PTH stimulation through an effect on osteoclastogenesis. Journal of Bone and Mineral Research, 1995, 10, 1523-1530.	2.8	45
23	Bioluminescent imaging: Emerging technology for non-invasive imaging of bone tissue engineering. Biomaterials, 2006, 27, 1851-1858.	11.4	43
24	Integrins and osteoclastic resorption in three bone organ cultures: Differential sensitivity to synthetic arg-gly-asp peptides during osteoclast formation. Journal of Bone and Mineral Research, 1994, 9, 1021-1028.	2.8	40
25	Investigative Urology: Hypercalcemia and Cosecretion of Interleukin-6 and Parathyroid Hormone Related Peptide by a Human Renal Cell Carcinoma Implanted Into Nude Mice. Journal of Urology, 1995, 153, 854-857.	0.4	35
26	In Vivo Fluorescence Imaging of IgG1 Aggregates After Subcutaneous and Intravenous Injection in Mice. Pharmaceutical Research, 2014, 31, 216-227.	3.5	32
27	A Dual-Color Bioluminescence Reporter Mouse for Simultaneous in vivo Imaging of T Cell Localization and Function. Frontiers in Immunology, 2018, 9, 3097.	4.8	32
28	Human CD46-transgenic mice in studies involving replication-incompetent adenoviral type 35 vectors. Journal of General Virology, 2006, 87, 255-265.	2.9	29
29	Red-shifted click beetle luciferase mutant expands the multicolor bioluminescent palette for deep tissue imaging. IScience, 2021, 24, 101986.	4.1	29
30	Disodium 1-hydroxy-3-(1-pyrrolidinyl)-propylidene-1,1-bisphosphonate (EB-1053) is a potent inhibitor of bone resorption in vitro and in vivo. Journal of Bone and Mineral Research, 1992, 7, 981-986.	2.8	26
31	Targeted nanoparticles for the non-invasive detection of traumatic brain injury by optical imaging and fluorine magnetic resonance imaging. Nano Research, 2016, 9, 1276-1289.	10.4	26
32	Bone Morphogenetic Protein 7 Inhibits Tumor Growth of Human Uveal Melanoma In Vivo. , 2007, 48, 4882.		24
33	Development of a New Hyaluronic Acid Based Redox-Responsive Nanohydrogel for the Encapsulation of Oncolytic Viruses for Cancer Immunotherapy. Nanomaterials, 2021, 11, 144.	4.1	23
34	Evaluation of NanoLuc substrates for bioluminescence imaging of transferred cells in mice. Journal of Photochemistry and Photobiology B: Biology, 2021, 216, 112128.	3.8	23
35	Alternative delivery of a thermostable inactivated polio vaccine. Vaccine, 2015, 33, 2030-2037.	3.8	21
36	Evaluating Brightness and Spectral Properties of Click Beetle and Firefly Luciferases Using Luciferin Analogues: Identification of Preferred Pairings of Luciferase and Substrate for In Vivo Bioluminescence Imaging. Molecular Imaging and Biology, 2020, 22, 1523-1531.	2.6	21

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37	Fate of Multimeric Oligomers, Submicron, and Micron Size Aggregates of Monoclonal Antibodies Upon Subcutaneous Injection in Mice. Journal of Pharmaceutical Sciences, 2016, 105, 1693-1704.	3.3	19
38	Independent pathways in the modulation of osteoclastic resorption by intermediates of the mevalonate biosynthetic pathway: The role of the retinoic acid receptor. Bone, 2006, 38, 167-171.	2.9	16
39	Ultrasound-mediated gene delivery of naked plasmid DNA in skeletal muscles: A case for bolus injections. Journal of Controlled Release, 2014, 195, 130-137.	9.9	16
40	Endostatin's heparan sulfate-binding site is essential for inhibition of angiogenesis and enhances in situ binding to capillary-like structures in bone explants. Matrix Biology, 2005, 23, 557-561.	3.6	13
41	Optimized Longitudinal Monitoring of Stem Cell Grafts in Mouse Brain Using a Novel Bioluminescent/Near Infrared Fluorescent Fusion Reporter. Cell Transplantation, 2017, 26, 1878-1889.	2.5	11
42	NanoBiT System and Hydrofurimazine for Optimized Detection of Viral Infection in Miceâ€"A Novel in Vivo Imaging Platform. International Journal of Molecular Sciences, 2020, 21, 5863.	4.1	10
43	Fluorinated PLGA-PEG-Mannose Nanoparticles for Tumor-Associated Macrophage Detection by Optical Imaging and MRI. Frontiers in Medicine, 2021, 8, 712367.	2.6	10
44	In Vitro and in Vivo Endochondral Bone Formation Models Allow Identification of Anti-Angiogenic Compounds. American Journal of Pathology, 2003, 163, 157-163.	3.8	8
45	Targeting Nanomedicine to Brain Tumors: Latest Progress and Achievements. Current Pharmaceutical Design, 2017, 23, 1953-1962.	1.9	8
46	Identification of differentially expressed genes in a renal cell carcinoma tumor model after endostatin-treatment. Laboratory Investigation, 2004, 84, 1472-1483.	3.7	7
47	In Vivo Non-Invasive Tracking of Macrophage Recruitment to Experimental Stroke. PLoS ONE, 2016, 11, e0156626.	2.5	7
48	The Monoclonal Antibodies 18d7/91f2 Recognize a Receptor Regulatory Protein on Mouse Bone Marrow Stromal Cells. Journal of Bone and Mineral Research, 2000, 15, 1286-1300.	2.8	1
49	Bone resorption and renal calcium reabsorption in renal cell carcinoma-bearing mice: the effects of bisphosphonate. BJU International, 2007, 99, 1530-1533.	2.5	1
50	Investigative Urology. Journal of Urology, 1995, , 854-857.	0.4	1
51	Optimized longitudinal monitoring of stem cell grafts in mouse brain using a novel bioluminescent/near infrared fluorescent fusion reporter. Cell Transplantation, 2017, , .	2.5	0