BMP signalling in a mechanical context â€“ Implication

Bone

137, 115416

DOI: 10.1016/j.bone.2020.115416

Citation Report

#	Article	IF	Citations
1	Biology of bone morphogenetic protein in bone repair and regeneration: A role for autologous blood coagulum as carrier. Bone, 2020, 141, 115602.	2.9	17
2	Editorial - â€œThe role of bone morphogenetic proteins (BMPs) in musculoskeletal biologyâ€. Bone, 2020, 141, 115622.	2.9	1
3	Learning from BMPs and their biophysical extracellular matrix microenvironment for biomaterial design. Bone, 2020, 141, 115540.	2.9	22
5	MicroRNAs Modulate Signaling Pathways in Osteogenic Differentiation of Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2021, 22, 2362.	4.1	36
6	Hyaluronan Synthasesâ€™ Expression and Activity Are Induced by Fluid Shear Stress in Bone Marrow-Derived Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2021, 22, 3123.	4.1	4
7	Generation of a new mouse line with conditionally activated signaling through the BMP receptor, ACVR1 : A tool to characterize pleiotropic roles of BMP functions. Genesis, 2021, 59, e23419.	1.6	4
8	Bone-to-Brain: A Round Trip in the Adaptation to Mechanical Stimuli. Frontiers in Physiology, 2021, 12, 623893.	2.8	40
9	Integration of clinical perspective into biomimetic bioreactor design for orthopedics. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 321-337.	3.4	2
10	Endocrinology of Bone and Growth Disorders. , 2021, , .		1
11	Mechanosensitive Non-Coding RNAs in Osteogenesis of Mesenchymal Stem Cells. Cell Transplantation, 2021, 30, 096368972110513.	2.5	3
12	Identification Osteogenic Signaling Pathways Following Mechanical Stimulation: A Systematic Review. Current Stem Cell Research and Therapy, 2022, 17, 772-792.	1.3	4
13	Smad2 and Smad3 expressed in skeletal muscle promote immobilization-induced bone atrophy in mice. Biochemical and Biophysical Research Communications, 2021, 582, 111-117.	2.1	3
14	Differential bioactivity of four BMP-family members as function of biomaterial stiffness. Biomaterials, 2022, 281, 121363.	11.4	16
15	Bone Regeneration and Oxidative Stress: An Updated Overview. Antioxidants, 2022, 11, 318.	5.1	34
16	Effects of Mechanical Stress Stimulation on Function and Expression Mechanism of Osteoblasts. Frontiers in Bioengineering and Biotechnology, 2022, 10, 830722.	4.1	16
17	Gremlin-1 and BMP-4 Overexpressed in Osteoarthritis Drive an Osteochondral-Remodeling Program in Osteoblasts and Hypertrophic Chondrocytes. International Journal of Molecular Sciences, 2022, 23, 2084.	4.1	12
18	Portable handâ€held bioprinters promote in situ tissue regeneration. Bioengineering and Translational Medicine, 2022, 7, .	7.1	16
19	Differential lncRNA/mRNA Expression Profiling and Functional Network Analyses in Bmp2 Deletion of Mouse Dental Papilla Cells. Frontiers in Genetics, 2021, 12, 702540.	2.3	4

#	Article	IF	Citations
20	Interplay of matrix stiffness and stress relaxation in directing osteogenic differentiation of mesenchymal stem cells. Biomaterials Science, 2022, 10, 4978-4996.	5.4	6
21	Progress of Periosteal Osteogenesis: The Prospect of In Vivo Bioreactor. Orthopaedic Surgery, 2022, 14, 1930-1939.	1.8	7
22	BMP Signaling Pathway in Dentin Development and Diseases. Cells, 2022, 11, 2216.	4.1	20
23	Craniofacial sutures: Signaling centres integrating mechanosensation, cell signaling, and cell differentiation. European Journal of Cell Biology, 2022, 101, 151258.	3.6	4
24	Could BMPs Therapy Be Improved if BMPs Were Used in Composition Acting during Bone Formation in Endochondral Ossification?. International Journal of Molecular Sciences, 2022, 23, 10327.	4.1	2
25	Recent progress in the biology and physiology of BMP-8a. Connective Tissue Research, 2023, 64, 219-228.	2.3	1
26	Role of mechano-sensitive non-coding RNAs in bone remodeling of orthodontic tooth movement: recent advances. Progress in Orthodontics, 2022, 23, .	3.5	4
27	Effectiveness of BMP-2 and PDGF-BB Adsorption onto a Collagen/Collagen-Magnesium-Hydroxyapatite Scaffold in Weight-Bearing and Non-Weight-Bearing Osteochondral Defect Bone Repair: In Vitro, Ex Vivo and In Vivo Evaluation. Journal of Functional Biomaterials, 2023, 14, 111.	4.4	6
28	Xenogeneic Serumâ€Free Human Cellâ€Derived Tissue Engineered Matrices for the Development of Clinicalâ€Grade Biomimetic Cardiovascular Devices. Advanced Therapeutics, 0, , .	3.2	0
29	Fluid shear stress-modulated chromatin accessibility reveals the mechano-dependency of endothelial SMAD1/5-mediated gene transcription. IScience, 2023, 26, 107405.	4.1	1
30	Functionally Tailored Metalâ€“Organic Framework Coatings for Mediating Ti Implant Osseointegration. Advanced Science, 2023, 10, .	11.2	2
31	Modern osteoplastic materials. RUDN Journal of Medicine, 2023, 27, 368-378.	0.2	0
32	Mechanical loading intensities affect the release of extracellular vesicles from mouse bone marrowâ€derived hematopoietic progenitor cells and change their osteoclastâ€modulating effect. FASEB Journal, 2024, 38, .	0.5	0
33	Effect of high cyclic hydrostatic pressure on osteogenesis of mesenchymal stem cells cultured in liquefied micro-compartments. Materials Today Bio, 2023, 23, 100861.	5.5	0
34	Stiffness and BMP-2 Mimetic Peptide Jointly Regulate the Osteogenic Differentiation of Rat Bone Marrow Stromal Cells in a Gelatin Cryogel. Biomacromolecules, 2024, 25, 890-902.	5.4	0
35	Osteocyte-mediated mechanical response controls osteoblast differentiation and function. Frontiers in Physiology, 0, 15, .	2.8	0