

Peer-reviewed publications Reinhold G. Erben

2024

1. Zupcic A, Latic N, Oubounyt M, Ramesova A, Carmeliet G, Baumbach J, Elkjaer ML, **Erben RG** (2024) Ablation of vitamin D signaling in cardiomyocytes leads to functional impairment and stimulation of pro-inflammatory and pro-fibrotic gene regulatory networks in a left ventricular hypertrophy model in mice. *Int J Mol Sci* 2024 May 29;25(11):5929
2. Scheller EL, McDonald M, Andersen TL, Sumner DR, Noda M, **Erben RG**, Boyce BF, Compston JE, Dempster DW, Takahashi HE, Malluche HH, Wronski TJ (2024) Celebrating 50-years: the history and future of the International Society of Bone Morphometry (ISBM). *JBMR Plus* 2024 Jun 12;8(7):ziae070

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2. Latic N, **Erben RG** (2022) Interaction of vitamin D with peptide hormones with emphasis on parathyroid hormone, FGF23, and the renin-angiotensin-aldosterone system. *Nutrients* 14(23):5186. Epub 2022 Dec 6
3. Buck A, Prade VM, Kunzke T, **Erben RG**, Walch AK (2022, shared last authorship) Spatial metabolomics reveal upregulation of several pyrophosphate-producing pathways in cortical bone of *Hyp* mice. *JCI insight* 2022 Oct 24;7(20):e162138
4. Latic N, Peitzsch M, Zupcic A, Pietzsch J, **Erben RG** (2022) Long-term excessive dietary phosphate increases arterial blood pressure, activates the renin-angiotensin-aldosterone system, and stimulates sympathetic tone in mice. *Biomedicines* 10(10):2510. Epub 2022 Oct 7
5. Latic N, Zupcic A, Frauenstein D, **Erben RG** (2022) Activation of RAAS signaling contributes to hypertension in aged *Hyp* mice. *Biomedicines* 10:1691. Epub 2022 Jul 13

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6. Latic N, **Erben RG** (2021) FGF23 and vitamin D metabolism. Tony Norman Memorial Edition. *JBMR Plus* 5:e10558. Epub 2021 Oct 13
7. Radloff J, Latic N, Pfeiffenberger U, Schüler C, Tangermann S, Kenner L, **Erben RG** (2021) A phosphate and calcium-enriched diet promotes progression of 5/6-nephrectomy-induced chronic kidney disease in C57BL/6 mice. *Sci Rep* 11:14868. Epub 2021 Jul 21
8. Bayer J, Vaghela R, Drechsler S, Osuchowski MF, **Erben RG**, Andrukhova O (2021) The bone is the major source of high circulating intact fibroblast growth factor-23 in acute murine polymicrobial sepsis induced by cecum ligation puncture. *PLoS ONE* 16:e0251317. Epub 2021 May 14
9. Radloff J, Pagitz M, Andrukhova O, Burgener IA, **Erben RG** (2021) Aldosterone is positively associated with circulating FGF23 levels in chronic kidney disease across four species, and may drive FGF23 secretion directly. *Front Physiol* 12:649921. Epub 2021 Apr 29
10. Dörr K, Kammer M, Reindl-Schwaighofer R, Lorenz M, Prikoszovich T, Marculescu R, Beitzke D, Wielandner A, **Erben RG**, Oberbauer R (2021) Randomized trial of etelcalcetide for cardiac hypertrophy in hemodialysis. *Circ Res* 128:1616-1625. Epub 2021 Apr 7
11. Godoy JR, Pittrich S, Slavic S, Lillig CH, Hanschmann EM, **Erben RG** (2021) Thioredoxin 1 is upregulated in the bone and bone marrow following experimental myocardial infarction—evidence for a remote organ response. *Histochem Cell Biol* 155:89-99. Epub 2020 Nov 8
12. Krylatov AV, Tsibulnikov SY, Mukhomedzyanov AV, Boshchenko AA, Goldberg VE, Jaggi AS, **Erben RG**, Maslov LN (2021) The role of natriuretic peptides in the regulation of cardiac tolerance to ischemia/reperfusion and postinfarction heart remodeling. *J Cardiovasc Pharmacol Ther* 26:131-148. Epub 2020 Aug 25

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13. Misof BM, Blouin S, Hofstaetter JG, Roschger P, Zwerina J, **Erben RG** (2020) No role of osteocytic osteolysis in the development and recovery of the bone phenotype induced by severe secondary hyperparathyroidism in vitamin D receptor deficient mice. *Int J Mol Sci* 21:E7989. Epub 2020 Oct 27
14. Latic N, **Erben RG** (2020) Vitamin D and Cardiovascular Disease, with Emphasis on Hypertension, Atherosclerosis, and Heart Failure. *Int J Mol Sci* 21:6483. Epub 2020 Sep 4
15. Pál E, Hricisák L, Lékai A, Nagy D, Fülöp A, **Erben RG**, Várbíró S, Sándor P, Benyó Z (2020) Ablation of vitamin D signaling compromises cerebrovascular adaptation to carotid artery occlusion in mice. *Cells* 9:1457. Epub 2020 Jun 12
16. Stunes AK, **Erben RG**, Schüller C, Eriksen EF, Tice M, Vashishth D, Syversen U, Mosti MP (2020) Skeletal effects of plyometric exercise and metformin in ovariectomized rats. *Bone* 132:115193. Epub 2019 Dec 17

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17. Moschinger M, Hilse KE, Rupprecht A, Zeitz U, **Erben RG**, Rüllicke T, Pohl EE (2019) Age-related sex differences in the expression of important disease-linked mitochondrial proteins in mice. *Biol Sex Differ* 10:56. Epub 2019 Dec 5
18. Dörr K, Kammer M, Reindl-Schwaighofer R, Lorenz M, Loewe C, Marculescu R, **Erben R**, Oberbauer R (2019) Effect of etelcalcetide on cardiac hypertrophy in hemodialysis patients: a randomized controlled trial (ETECAR-HD). *Trials* 20:601, Epub 2019 Oct 24
19. Marek A, Schüller C, Satue M, Haigl B, **Erben RG** (2019) A laser capture microdissection protocol that yields high quality RNA from fresh-frozen mouse bones. *J Vis Exp* Epub 2019 Sep 16;(151)
20. Hofstaetter JG, Misof BM, Jones DC, Zoehrer R, Blouin S, Schueler C, Paschalis EP, **Erben RG**, Weinkamer R, Klaushofer K, Roschger P (2019) Biomechanical and bone material properties of Schnurri-3 null mice. *JBMR Plus* 3:e10226, Epub 2019 Sep 11
21. Satue M, Schüller C, Ginner N, **Erben RG** (2019) Intra-articularly injected mesenchymal stem cells promote cartilage regeneration, but do not permanently engraft in distant organs. *Sci Rep* 9:10153, Epub 2019 Jul 12
22. **Erben RG** (2019) Editorial. Endocrine and paracrine role of FGF23 and Klotho in health and disease. *Front Endocrinol (Lausanne)* 10:2. Epub 2019 Jan 21, doi: 10.3389/fendo.2019.-00002

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23. Ford K, Latic N, Slavic S, Zeitz U, Dolezal M, Andrukhov O, **Erben RG**, Andrukhova O (2018) Lack of vitamin D signalling per se does not aggravate cardiac functional impairment induced by myocardial infarction in mice. *PLoS ONE* 13:e0204803, Epub 2018 Oct 1
24. **Erben RG** (2018) α -Klotho's effects on mineral homeostasis are fibroblast growth factor-23 dependent. *Curr Opin Nephrol Hypertens* 27:229-235. Epub 2018 Jul
25. Andrukhova O, Schüller C, Bergow C, Petric A, **Erben RG** (2018) Augmented FGF23 secretion in bone locally contributes to impaired bone mineralization in chronic kidney disease in mice. *Front Endocrinol (Lausanne)* 9:311. Epub 2018 Jun 11
26. **Erben RG** (2018) Physiological actions of fibroblast growth factor-23. *Front Endocrinol (Lausanne)* 9:267. Epub 2018 May 28
27. Slavic S, Andrukhova O, Ford K, Handschuh S, Kostenuik P, Hofbauer LC, **Erben RG** (2018) Selective inhibition of receptor activator of NF κ B ligand (RANKL) in hematopoietic cells improves outcome after experimental myocardial infarction. *J Mol Med* 96:559-573 Epub 2018 May 8

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32. Andrukhova O, Bayer J, Schüler C, Zeitz U, Murali SK, Ada S, Alvares-Pez JM, Smorodchenko A, **Erben RG** (2017) Klotho lacks a FGF23 independent role in mineral homeostasis. *J Bone Miner Res* 32:2049-2061. Epub 2017 Jul 17
33. Nebot E, Aparicio VA, Pietschmann P, Camiletti-Moirón D, Kapravelou G, **Erben RG**, Martínez R, Sánchez-González C, Porres JM, Llopis J, López-Jurado M, Aranda P (2017) Effects of Hypertrophy Exercise in Bone Turnover Markers and Structure in Growing Male Rats. *Int J Sports Med* 38:418-425. Epub 2017 Apr 7
34. Kaludjerovic J, Komaba H, Sato T, **Erben RG**, Baron R, Olauson H, Larsson TE, Lanske B (2017) Klotho expression in long bones regulates FGF23 production during renal failure. *FASEB J* 31:2050-2064. Epub 2017 Feb 9
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39. Mosti MP, Ericsson M, **Erben RG**, Schüler C, Syversen U, Stunes AK (2016) The PPAR α Agonist Fenofibrate Improves the Musculoskeletal Effects of Exercise in Ovariectomized Rats. *Endocrinology* 157:3924-3934. Epub 2016 Aug 15
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41. Murali SK, Roschger P, Zeitz U, Klaushofer K, Andrukhova O, **Erben RG** (2016) FGF23 regulates bone mineralization in a 1,25(OH) $_2$ D $_3$ and Klotho-independent manner. *J Bone Miner Res* 31:129-42. Epub 2015 Aug 01
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