

# Roland Baron

## List of Publications by Year in descending order

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85  
papers

6,002  
citations

147801

31  
h-index

74163

75  
g-index

89  
all docs

89  
docs citations

89  
times ranked

9363  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                 | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | WNT signaling in bone homeostasis and disease: from human mutations to treatments. <i>Nature Medicine</i> , 2013, 19, 179-192.                                                                                          | 30.7 | 1,622     |
| 2  | Denosumab and bisphosphonates: Different mechanisms of action and effects. <i>Bone</i> , 2011, 48, 677-692.                                                                                                             | 2.9  | 556       |
| 3  | Irisin Mediates Effects on Bone and Fat via $\alpha$ 5 $\beta$ 1 Integrin Receptors. <i>Cell</i> , 2018, 175, 1756-1768.e17.                                                                                            | 28.9 | 372       |
| 4  | Parathyroid Hormone Directs Bone Marrow Mesenchymal Cell Fate. <i>Cell Metabolism</i> , 2017, 25, 661-672.                                                                                                              | 16.2 | 308       |
| 5  | Osteoblast-derived WNT16 represses osteoclastogenesis and prevents cortical bone fragility fractures. <i>Nature Medicine</i> , 2014, 20, 1279-1288.                                                                     | 30.7 | 303       |
| 6  | Update on Bone Anabolics in Osteoporosis Treatment: Rationale, Current Status, and Perspectives. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 311-325.                                           | 3.6  | 285       |
| 7  | Engineered nanomedicine for myeloma and bone microenvironment targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10287-10292.                               | 7.1  | 234       |
| 8  | SIKs control osteocyte responses to parathyroid hormone. <i>Nature Communications</i> , 2016, 7, 13176.                                                                                                                 | 12.8 | 124       |
| 9  | Specific bone cells produce DLL4 to generate thymus-seeding progenitors from bone marrow. <i>Journal of Experimental Medicine</i> , 2015, 212, 759-774.                                                                 | 8.5  | 122       |
| 10 | Sustained Modeling-Based Bone Formation During Adulthood in Cynomolgus Monkeys May Contribute to Continuous BMD Gains With Denosumab. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1280-1289.                | 2.8  | 94        |
| 11 | Klotho expression in osteocytes regulates bone metabolism and controls bone formation. <i>Kidney International</i> , 2017, 92, 599-611.                                                                                 | 5.2  | 86        |
| 12 | Direct Transcriptional Repression of Zfp423 by Zfp521 Mediates a Bone Morphogenic Protein-Dependent Osteoblast versus Adipocyte Lineage Commitment Switch. <i>Molecular and Cellular Biology</i> , 2014, 34, 3076-3085. | 2.3  | 78        |
| 13 | Targeting WNT signaling in the treatment of osteoporosis. <i>Current Opinion in Pharmacology</i> , 2018, 40, 134-141.                                                                                                   | 3.5  | 76        |
| 14 | Dynamin and endocytosis are required for the fusion of osteoclasts and myoblasts. <i>Journal of Cell Biology</i> , 2014, 207, 73-89.                                                                                    | 5.2  | 75        |
| 15 | $\beta$ -FosB Induces Osteosclerosis and Decreases Adipogenesis by Two Independent Cell-Autonomous Mechanisms. <i>Molecular and Cellular Biology</i> , 2004, 24, 2820-2830.                                             | 2.3  | 68        |
| 16 | Irisin directly stimulates osteoclastogenesis and bone resorption in vitro and in vivo. <i>ELife</i> , 2020, 9, .                                                                                                       | 6.0  | 68        |
| 17 | A new WNT on the bone: WNT16, cortical bone thickness, porosity and fractures. <i>BoneKey Reports</i> , 2015, 4, 669.                                                                                                   | 2.7  | 60        |
| 18 | Renal Fanconi Syndrome and Hypophosphatemic Rickets in the Absence of Xenotropic and Polytropic Retroviral Receptor in the Nephron. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 1073-1078.   | 6.1  | 57        |

| #  | ARTICLE                                                                                                                                                                                                                               | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | CHMP5 controls bone turnover rates by dampening NF- $\kappa$ B activity in osteoclasts. <i>Journal of Experimental Medicine</i> , 2015, 212, 1283-1301.                                                                               | 8.5  | 56        |
| 20 | TGIF Governs a Feed-Forward Network that Empowers Wnt Signaling to Drive Mammary Tumorigenesis. <i>Cancer Cell</i> , 2015, 27, 547-560.                                                                                               | 16.8 | 54        |
| 21 | Metformin Affects Cortical Bone Mass and Marrow Adiposity in Diet-Induced Obesity in Male Mice. <i>Endocrinology</i> , 2017, 158, 3369-3385.                                                                                          | 2.8  | 54        |
| 22 | SMURF2 regulates bone homeostasis by disrupting SMAD3 interaction with vitamin D receptor in osteoblasts. <i>Nature Communications</i> , 2017, 8, 14570.                                                                              | 12.8 | 52        |
| 23 | Loss of BMPR2 leads to high bone mass due to increased osteoblast activity. <i>Journal of Cell Science</i> , 2015, 128, 1308-1315.                                                                                                    | 2.0  | 50        |
| 24 | Cathepsin K-deficient osteocytes prevent lactation-induced bone loss and parathyroid hormone suppression. <i>Journal of Clinical Investigation</i> , 2019, 129, 3058-3071.                                                            | 8.2  | 48        |
| 25 | MEKK2 mediates an alternative $\beta$ -catenin pathway that promotes bone formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1226-35.                                    | 7.1  | 47        |
| 26 | The WTX Tumor Suppressor Regulates Mesenchymal Progenitor Cell Fate Specification. <i>Developmental Cell</i> , 2011, 20, 583-596.                                                                                                     | 7.0  | 44        |
| 27 | The Crosstalk between Osteoclasts and Osteoblasts Is Dependent upon the Composition and Structure of Biphasic Calcium Phosphates. <i>PLoS ONE</i> , 2015, 10, e0132903.                                                               | 2.5  | 40        |
| 28 | Inhibiting stromal cell heparan sulfate synthesis improves stem cell mobilization and enables engraftment without cytotoxic conditioning. <i>Blood</i> , 2014, 124, 2937-2947.                                                        | 1.4  | 39        |
| 29 | Klotho expression in long bones regulates FGF23 production during renal failure. <i>FASEB Journal</i> , 2017, 31, 2050-2064.                                                                                                          | 0.5  | 39        |
| 30 | A novel role for dopamine signaling in the pathogenesis of bone loss from the atypical antipsychotic drug risperidone in female mice. <i>Bone</i> , 2017, 103, 168-176.                                                               | 2.9  | 38        |
| 31 | The Actin-Binding Protein Cofilin and Its Interaction With Cortactin Are Required for Podosome Patterning in Osteoclasts and Bone Resorption In Vivo and In Vitro. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 1701-1712. | 2.8  | 37        |
| 32 | Propranolol Attenuates Risperidone-Induced Trabecular Bone Loss in Female Mice. <i>Endocrinology</i> , 2015, 156, 2374-2383.                                                                                                          | 2.8  | 35        |
| 33 | Inhibition of microRNA-138 enhances bone formation in multiple myeloma bone marrow niche. <i>Leukemia</i> , 2018, 32, 1739-1750.                                                                                                      | 7.2  | 34        |
| 34 | Brain to bone: What is the contribution of the brain to skeletal homeostasis?. <i>Bone</i> , 2018, 115, 31-42.                                                                                                                        | 2.9  | 32        |
| 35 | Sfrp4 repression of the Ror2/Jnk cascade in osteoclasts protects cortical bone from excessive endosteal resorption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14138-14143.  | 7.1  | 32        |
| 36 | Neuronal hypothalamic regulation of body metabolism and bone density is galanin dependent. <i>Journal of Clinical Investigation</i> , 2018, 128, 2626-2641.                                                                           | 8.2  | 32        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                           | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Abaloparatide, a novel osteoanabolic PTHrP analog, increases cortical and trabecular bone mass and architecture in orchietomized rats by increasing bone formation without increasing bone resorption. <i>Bone</i> , 2019, 120, 148-155.                                                          | 2.9  | 30        |
| 38 | Doubly Truncated FosB Isoform ( $\hat{I}^{\prime}2\hat{I}^{\prime}$ FosB) Induces Osteosclerosis in Transgenic Mice and Modulates Expression and Phosphorylation of Smads in Osteoblasts Independent of Intrinsic AP-1 Activity. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 584-595. | 2.8  | 29        |
| 39 | Mesenchymal Cell-Derived Juxtacrine Wnt1 Signaling Regulates Osteoblast Activity and Osteoclast Differentiation. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 1129-1142.                                                                                                               | 2.8  | 29        |
| 40 | Inhibition of osteoclast differentiation and collagen antibody-induced arthritis by CTHRC1. <i>Bone</i> , 2017, 97, 153-167.                                                                                                                                                                      | 2.9  | 28        |
| 41 | Essential Function of Dynamin in the Invasive Properties and Actin Architecture of $\nu$ -Src Induced Podosomes/Invadosomes. <i>PLoS ONE</i> , 2013, 8, e77956.                                                                                                                                   | 2.5  | 24        |
| 42 | Igfbp2 Deletion in Ovariectomized Mice Enhances Energy Expenditure but Accelerates Bone Loss. <i>Endocrinology</i> , 2015, 156, 4129-4140.                                                                                                                                                        | 2.8  | 24        |
| 43 | PRMT5 inhibition promotes osteogenic differentiation of mesenchymal stromal cells and represses basal interferon stimulated gene expression. <i>Bone</i> , 2018, 117, 37-46.                                                                                                                      | 2.9  | 23        |
| 44 | Periosteal stem cells control growth plate stem cells during postnatal skeletal growth. <i>Nature Communications</i> , 2022, 13, .                                                                                                                                                                | 12.8 | 23        |
| 45 | Energy expenditure and bone formation share a common sensitivity to AP-1 transcription in the hypothalamus. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1649-1658.                                                                                                                    | 2.8  | 21        |
| 46 | Functional Characterization of a GGPPS Variant Identified in Atypical Femoral Fracture Patients and Delineation of the Role of GGPPS in Bone-Relevant Cell Types. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 2091-2098.                                                              | 2.8  | 21        |
| 47 | Increased Energy Expenditure and Insulin Sensitivity in the High Bone Mass $\hat{I}^{\prime}$ FosB Transgenic Mice. <i>Endocrinology</i> , 2009, 150, 135-143.                                                                                                                                    | 2.8  | 20        |
| 48 | Osteoporosis therapyâ€™ dawn of the post-bisphosphonate era. <i>Nature Reviews Endocrinology</i> , 2012, 8, 76-78.                                                                                                                                                                                | 9.6  | 20        |
| 49 | ZFP521 regulates murine hematopoietic stem cell function and facilitates MLL-AF9 leukemogenesis in mouse and human cells. <i>Blood</i> , 2017, 130, 619-624.                                                                                                                                      | 1.4  | 20        |
| 50 | Effects of abaloparatide and teriparatide on bone resorption and bone formation in female mice. <i>Bone Reports</i> , 2020, 13, 100291.                                                                                                                                                           | 0.4  | 20        |
| 51 | Bone Formation and the Wnt Signaling Pathway. <i>New England Journal of Medicine</i> , 2016, 375, 1902-1903.                                                                                                                                                                                      | 27.0 | 19        |
| 52 | Abaloparatide improves cortical geometry and trabecular microarchitecture and increases vertebral and femoral neck strength in a rat model of male osteoporosis. <i>Bone</i> , 2019, 124, 148-157.                                                                                                | 2.9  | 19        |
| 53 | Perivascular osteoprogenitors are associated with transcortical channels of long bones. <i>Stem Cells</i> , 2020, 38, 769-781.                                                                                                                                                                    | 3.2  | 19        |
| 54 | High fat diet attenuates hyperglycemia, body composition changes, and bone loss in male streptozotocinâ€™induced type 1 diabetic mice. <i>Journal of Cellular Physiology</i> , 2018, 233, 1585-1600.                                                                                              | 4.1  | 17        |

| #  | ARTICLE                                                                                                                                                                                                               | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Protein tyrosine phosphatases $\hat{\mu}$ and $\hat{\pm}$ perform nonredundant roles in osteoclasts. <i>Molecular Biology of the Cell</i> , 2014, 25, 1808-1818.                                                      | 2.1  | 15        |
| 56 | Stk11 (Lkb1) deletion in the osteoblast lineage leads to high bone turnover, increased trabecular bone density and cortical porosity. <i>Bone</i> , 2014, 69, 98-108.                                                 | 2.9  | 15        |
| 57 | Spontaneous mutation of Dock7 results in lower trabecular bone mass and impaired periosteal expansion in aged female Misty mice. <i>Bone</i> , 2017, 105, 103-114.                                                    | 2.9  | 15        |
| 58 | The Actin-Binding Protein PPP1r18 Regulates Maturation, Actin Organization, and Bone Resorption Activity of Osteoclasts. <i>Molecular and Cellular Biology</i> , 2018, 38, .                                          | 2.3  | 14        |
| 59 | Loss of $\hat{\pm}$ in osteocytes leads to osteopenia due to sclerostin induced suppression of osteoblast activity. <i>Bone</i> , 2018, 117, 138-148.                                                                 | 2.9  | 14        |
| 60 | RANKL regulates male reproductive function. <i>Nature Communications</i> , 2021, 12, 2450.                                                                                                                            | 12.8 | 14        |
| 61 | Zfp423 Regulates Skeletal Muscle Regeneration and Proliferation. <i>Molecular and Cellular Biology</i> , 2019, 39, .                                                                                                  | 2.3  | 12        |
| 62 | $\hat{\mu}$ FosB Requires Galanin, but not Leptin, to Increase Bone Mass via the Hypothalamus, but both are needed to increase Energy expenditure. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 1707-1720. | 2.8  | 12        |
| 63 | Plectin stabilizes microtubules during osteoclastic bone resorption by acting as a scaffold for Src and Pyk2. <i>Bone</i> , 2020, 132, 115209.                                                                        | 2.9  | 12        |
| 64 | An update on osteoporosis pathogenesis, diagnosis, and treatment. <i>Bone</i> , 2017, 98, 37.                                                                                                                         | 2.9  | 11        |
| 65 | Bone adaptation compensates resorption when sciatic neurectomy is followed by low magnitude induced loading. <i>Bone</i> , 2019, 120, 487-494.                                                                        | 2.9  | 11        |
| 66 | Characterization of unique functionalities in c-Src domains required for osteoclast podosome belt formation. <i>Journal of Biological Chemistry</i> , 2021, 296, 100790.                                              | 3.4  | 10        |
| 67 | The role of Zfp467 in mediating the pro-osteogenic and anti-adipogenic effects on bone and bone marrow niche. <i>Bone</i> , 2021, 144, 115832.                                                                        | 2.9  | 9         |
| 68 | Abaloparatide treatment increases bone formation, bone density and bone strength without increasing bone resorption in a rat model of hindlimb unloading. <i>Bone</i> , 2021, 144, 115801.                            | 2.9  | 8         |
| 69 | Cortical Bone Loss in a Spontaneous Murine Model of Systemic Lupus Erythematosus. <i>Calcified Tissue International</i> , 2018, 103, 686-697.                                                                         | 3.1  | 7         |
| 70 | Bone Cells Crosstalk: Noncanonical Roring in the Wnt. <i>Cell Metabolism</i> , 2012, 15, 415-417.                                                                                                                     | 16.2 | 6         |
| 71 | Increased Cellular Presence After Sciatic Neurectomy Improves the Bone Mechano-adaptive Response in Aged Mice. <i>Calcified Tissue International</i> , 2019, 105, 316-330.                                            | 3.1  | 6         |
| 72 | Inhibition of longevity regulator PAPPaEA modulates tissue homeostasis via restraint of mesenchymal stromal cells. <i>Aging Cell</i> , 2021, 20, e13313.                                                              | 6.7  | 6         |

| #  | ARTICLE                                                                                                                                                                                                                                                                                | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Synergistic roles of Wnt modulators R-spondin2 and R-spondin3 in craniofacial morphogenesis and dental development. <i>Scientific Reports</i> , 2021, 11, 5871.                                                                                                                        | 3.3 | 6         |
| 74 | Hypothalamic $\hat{I}^{\beta}$ FosB prevents age-related metabolic decline and functions via SNS. <i>Aging</i> , 2017, 9, 353-369.                                                                                                                                                     | 3.1 | 5         |
| 75 | Propranolol Promotes Bone Formation and Limits Resorption Through Novel Mechanisms During Anabolic Parathyroid Hormone Treatment in Female C57BL/6J Mice. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 954-971.                                                             | 2.8 | 5         |
| 76 | Early B-cell Factor1 (Ebf1) promotes early osteoblast differentiation but suppresses osteoblast function. <i>Bone</i> , 2021, 146, 115884.                                                                                                                                             | 2.9 | 4         |
| 77 | Osteocytes Support Hematopoiesis by Altering the Bone Marrow Microenvironment Through $Gs\hat{\pm}$ Signaling. <i>Blood</i> , 2011, 118, 219-219.                                                                                                                                      | 1.4 | 4         |
| 78 | Kit W-sh Mutation Prevents Cancellous Bone Loss during Calcium Deprivation. <i>Calcified Tissue International</i> , 2018, 102, 93-104.                                                                                                                                                 | 3.1 | 3         |
| 79 | Sfrp4 and the Biology of Cortical Bone. <i>Current Osteoporosis Reports</i> , 2022, 20, 153-161.                                                                                                                                                                                       | 3.6 | 3         |
| 80 | Both NPY $\hat{\epsilon}$ Expressing and CART $\hat{\epsilon}$ Expressing Neurons Increase Energy Expenditure and Trabecular Bone Mass in Response to AP1 Antagonism, But Have Opposite Effects on Bone Resorption. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1107-1118. | 2.8 | 2         |
| 81 | Nanoparticle Design For Bone-Specific Chemotherapy and Microenvironmental Targeting In Multiple Myeloma. <i>Blood</i> , 2013, 122, 881-881.                                                                                                                                            | 1.4 | 1         |
| 82 | Hematopoietic Stem/Progenitor Cell Retention in the Bone Marrow Depends On Tissue Specific Heparan Sulfate Proteoglycans. <i>Blood</i> , 2012, 120, 637-637.                                                                                                                           | 1.4 | 1         |
| 83 | Marrow aspiration in aged mice: intramedullary osteogenesis, reduced mechano-adaptation, increased marrow fat. <i>Connective Tissue Research</i> , 2022, 63, 97-111.                                                                                                                   | 2.3 | 0         |
| 84 | Irisin Mediates Effects on Bone via $\hat{I}\pm V$ Integrin Receptors. <i>FASEB Journal</i> , 2019, 33, 15.2.                                                                                                                                                                          | 0.5 | 0         |
| 85 | Insulin-like growth factor binding protein 2 null mice ( $Igfbp2^{\hat{\sim}}/\hat{\sim}$ ) are protected against trabecular bone loss after vertical sleeve gastrectomy. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2022, , .                                    | 2.4 | 0         |