

Friday 6th October, 2023

Stéphane Blouin, PhD

Publication List

- [1] Stéphane Blouin, Farzaneh Khani, Phaedra Messmer, Paul Roschger, Markus A. Hartmann, Andre J. van Wijnen, Roman Thaler, and Barbara M. Misof.
“Vitamin C Deficiency Deteriorates Bone Microarchitecture and Mineralization in a Sex-Specific Manner in Adult Mice”.
In: *Journal of Bone and Mineral Research* (Aug. 2023).
DOI: [10.1002/jbmr.4889](https://doi.org/10.1002/jbmr.4889).
- [2] Stéphane Blouin, Barbara M. Misof, Matthias Mähr, Nadja Fratzl-Zelman, Paul Roschger, Sonja Lueger, Phaedra Messmer, Petra Keplinger, Frank Rauch, Francis H. Glorieux, Andrea Berzlanovich, Gerlinde M. Gruber, Peter C. Brugger, Elizabeth Shane, Robert R. Recker, Jochen Zwerina, and Markus A. Hartmann.
“Osteocyte lacunae in transiliac bone biopsy samples across life span”.
In: *Acta Biomaterialia* 157 (Feb. 2023), pp. 275–287.
DOI: [10.1016/j.actbio.2022.11.051](https://doi.org/10.1016/j.actbio.2022.11.051).
- [3] Nadja Fratzl-Zelman, Agnès Linglart, Kim Bin, Frank Rauch, Stéphane Blouin, Régis Coutant, and Aurélie Donzeau.
“Combination of osteogenesis imperfecta and hypophosphatasia in three children with multiple fractures, low bone mass and severe osteomalacia, a challenge for therapeutic management”.
In: *European Journal of Medical Genetics* (Sept. 2023), p. 104856.
DOI: [10.1016/j.ejmg.2023.104856](https://doi.org/10.1016/j.ejmg.2023.104856).
- [4] Saila Laakso, Tong Xiaoyu, Stéphane Blouin, Petra Keplinger, Ville-Valtteri Välimäki, Heikki Kröger, Outi Mäkitie, and Markus A. Hartmann.
“Bone Tissue Evaluation Indicates Abnormal Mineralization in Patients with Autoimmune Polyendocrine Syndrome Type I: Report on Three Cases”.
In: *Calcified Tissue International* 112.6 (Mar. 2023), pp. 675–682.
DOI: [10.1007/s00223-023-01077-0](https://doi.org/10.1007/s00223-023-01077-0).

- [5] Barbara M. Misof, Paul Roschger, Matthias Mähr, Nadja Fratzl-Zelman, Francis H. Glorieux, Markus A. Hartmann, Frank Rauch, and Stéphane Blouin.
“Accelerated mineralization kinetics in children with osteogenesis imperfecta type 1”.
In: *Bone* 166 (Jan. 2023), p. 116580.
DOI: [10.1016/j.bone.2022.116580](https://doi.org/10.1016/j.bone.2022.116580).
- [6] Spela Stunf Pukl, Martin Kronschläger, Manuel Ruiss, Stephane Blouin, and Oliver Findl.
“Size variability and fitting of 30-gauge thin-wall needles and 3-piece intraocular lens haptics for the flanged intrascleral fixation technique”.
In: *Journal of Cataract and Refractive Surgery* 49.8 (Aug. 2023), pp. 874–878.
DOI: [10.1097/j.jcrs.0000000000001210](https://doi.org/10.1097/j.jcrs.0000000000001210).
- [7] Alexandra Tits, Stéphane Blouin, Maximilian Rummler, Jean-François Kaux, Pierre Drion, G. Harry van Lenthe, Richard Weinkamer, Markus A. Hartmann, and Davide Ruffoni.
“Structural and functional heterogeneity of mineralized fibrocartilage at the Achilles tendon-bone insertion”.
In: *Acta Biomaterialia* 166 (Aug. 2023), pp. 409–418.
DOI: [10.1016/j.actbio.2023.04.018](https://doi.org/10.1016/j.actbio.2023.04.018).
- [8] Barbara Voraberger, Johannes A. Mayr, Nadja Fratzl-Zelman, Stéphane Blouin, Suma Uday, Robert Kopajtic, Marijke Koedam, Helena Hödlmayr, Saskia B. Wortmann, Bernhard Csillag, Holger Prokisch, Bram C. J. van der Eerden, Ahmed El-Gazzar, and Wolfgang Högler.
“Investigating the role of ASCC1 in the causation of bone fragility”.
In: *Frontiers in Endocrinology* 14 (June 2023).
DOI: [10.3389/fendo.2023.1137573](https://doi.org/10.3389/fendo.2023.1137573).
- [9] Nadja Fratzl-Zelman, Markus A. Hartmann, Sonja Gamsjaeger, Stamatia Rokidi, Eleftherios P. Paschalis, Stéphane Blouin, and Jochen Zwerina.
“Bone Matrix Mineralization and Response to Burosumab in Adult Patients With X-Linked Hypophosphatemia: Results From the Phase 3, Single-Arm International Trial”.
In: *Journal of Bone and Mineral Research* (Aug. 2022).
DOI: [10.1002/jbmr.4641](https://doi.org/10.1002/jbmr.4641).
- [10] Ghazal Hedjazi, Gali Guterman-Ram, Stéphane Blouin, Victoria Schemenz, Wolfgang Wagermaier, Peter Fratzl, Markus A. Hartmann, Jochen Zwerina, Nadja Fratzl-Zelman, and Joan C. Marini.

- “Alterations of bone material properties in growing Ifitm5/BRIL p.S42 knock-in mice, a new model for atypical type VI osteogenesis imperfecta”.
- In: *Bone* 162 (Sept. 2022), pp. 1164–51.
DOI: [10.1016/j.bone.2022.116451](https://doi.org/10.1016/j.bone.2022.116451).
- [11] Jochen G. Hofstaetter, Gerald J. Atkins, Hajime Kato, Masakazu Kogawa, Stéphane Blouin, Barbara M. Misof, Paul Roschger, Andreas Evdokiou, Dongqing Yang, Lucian B. Solomon, David M. Findlay, and Nobuaki Ito.
“A Mild Case of Autosomal Recessive Osteopetrosis Masquerading as the Dominant Form Involving Homozygous Deep Intronic Variations in the CLCN7 Gene”.
- In: *Calcified Tissue International* (May 2022).
DOI: [10.1007/s00223-022-00988-8](https://doi.org/10.1007/s00223-022-00988-8).
- [12] Martin Kronschlager, Stéphane Blouin, Manuel Ruiss, and Oliver Findl.
“Attaining the optimal flange size with 5-0 and 6-0 polypropylene sutures for scleral fixation”.
- In: *Journal of Cataract and Refractive Surgery* Publish Ahead of Print (Aug. 2022).
DOI: [10.1097/j.jcrs.0000000000001024](https://doi.org/10.1097/j.jcrs.0000000000001024).
- [13] Elena Macías-Sánchez, Nadezda V. Tarakina, Danail Ivanov, Stéphane Blouin, Andrea M. Berzlanovich, and Peter Fratzl.
“Spherulitic Crystal Growth Drives Mineral Deposition Patterns in Collagen-Based Materials”.
- In: *Advanced Functional Materials* 32.31 (May 2022), p. 2200504.
DOI: [10.1002/adfm.202200504](https://doi.org/10.1002/adfm.202200504).
- [14] Barbara M. Misof, Stéphane Blouin, Vicente F. C. Andrade, Paul Roschger, Victoria Z. C. Borba, Markus A. Hartmann, Jochen Zwerina, Robert R. Recker, and Carolina A. Moreira.
“No evidence of mineralization abnormalities in iliac bone of premenopausal women with type 2 diabetes mellitus.”
- In: *Journal of musculoskeletal and neuronal interactions* 22 (Sept. 2022), pp. 305–315.
DOI: [no](https://doi.org/10.1007/s00223-022-00988-8).
- [15] Teng teng Tang, William Landis, Stéphane Blouin, Luca Bertinetti, Markus A. Hartmann, Andrea Berzlanovich, Richard Weinkamer, Wolfgang Wagermaier, and Peter Fratzl.
“Subcanalicular Nanochannel Volume Is Inversely Correlated With Calcium Content in Human Cortical Bone”.

- In: *Journal of Bone and Mineral Research* 38.2 (Dec. 2022), pp. 313–325.
DOI: [10.1002/jbmr.4753](https://doi.org/10.1002/jbmr.4753).
- [16] Eva Maria Wölfel, Franziska Lademann, Haniyeh Hemmatian, Stéphane Blouin, Phaedra Messmer, Lorenz C. Hofbauer, Björn Busse, Martina Rauner, Katharina Jähn-Rickert, and Elena Tsourdi.
“Reduced Bone Mass and Increased Osteocyte Tartrate-Resistant Acid Phosphatase (scpTRAP)/scp Activity, But Not Low Mineralized Matrix Around Osteocyte Lacunae, Are Restored After Recovery From Exogenous Hyperthyroidism in Male Mice”.
In: *Journal of Bone and Mineral Research* 38.1 (Nov. 2022), pp. 131–143.
DOI: [10.1002/jbmr.4736](https://doi.org/10.1002/jbmr.4736).
- [17] Kaa Alccayhuaman, S Tangl, S Blouin, M Hartmann, P Heimel, U Kuchler, J Lee, and R Gruber.
“Osteoconductive Properties of a Volume-Stable Collagen Matrix in Rat Calvaria Defects: A Pilot Study”.
In: *Biomedicines* 9.7 (June 25, 2021), p. 732.
DOI: [10.3390/biomedicines9070732](https://doi.org/10.3390/biomedicines9070732).
- [18] N Fratzl-Zelman, K Wesseling-Perry, R Mäkitie, S Blouin, M Hartmann, J Zwerina, V Välimäki, C Laine, M Välimäki, R Pereira, and O Mäkitie.
“Bone material properties and response to teriparatide in osteoporosis due to WNT1 and PLS3 mutations”.
In: *Bone* 11 (Feb. 20, 2021), p. 115900.
DOI: [10.1016/j.bone.2021.115900](https://doi.org/10.1016/j.bone.2021.115900).
- [19] Ahmed El-Gazzar, Johannes A. Mayr, Barbara Voraberger, Karin Brugger, Stéphane Blouin, Katharina Tischlinger, Hans-Christoph Duba, Holger Prokisch, Nadja Fratzl-Zelman, and Wolfgang Högler.
“A novel cryptic splice site mutation in COL1A2 as a cause of osteogenesis imperfecta”.
In: *Bone Reports* 15 (July 26, 2021), p. 101110.
DOI: [10.1016/j.bonr.2021.101110](https://doi.org/10.1016/j.bonr.2021.101110).
- [20] Benjamin Hadzimiratovic, Judith Haschka, Markus A Hartmann, Stéphane Blouin, Nadja Fratzl-Zelman, Jochen Zwerina, and Roland Kocijan.
“Impact of Tenofovir Disoproxil-Induced Fanconi Syndrome on Bone Material Quality: A Case Report”.
In: *JBMR Plus* 5.6 (May 25, 2021), e10506.
DOI: [10.1002/jbm4.10506](https://doi.org/10.1002/jbm4.10506).

- [21] M Hartmann, S Blouin, B Misof, N Fratzl-Zelman, P Roschger, A Berzlanovich, G Gruber, P Brugger, J Zwerina, and P Fratzl.
 “Quantitative Backscattered Electron Imaging of Bone Using a Thermionic or a Field Emission Electron Source”.
 In: *Calcif Tissue Int* 10.2 (Apr. 10, 2021), pp. 190–202.
 DOI: [10.1007/s00223-021-00832-5](https://doi.org/10.1007/s00223-021-00832-5).
- [22] Al Kaissi, A Misof, B Laccone, F Blouin, S Roschger, P Kircher, S Shboul, M Mindler, G Girsch, W Ganger, and R.
 “Clinical Phenotype and Bone Biopsy Characteristics in a Child with Proteus Syndrome”.
 In: *Calcif Tissue Int* 109.5 (May 18, 2021), pp. 586–595.
 DOI: [10.1007/s00223-021-00862-z](https://doi.org/10.1007/s00223-021-00862-z).Epub.
- [23] Y Kuroda, K Kawaai, N Hatano, Y Wu, H Takano, A Momose, T Ishimoto, T Nakano, P Roschger, S Blouin, and K Matsuo.
 “Hypermineralization of Hearing-Related Bones by a Specific Osteoblast Subtype”.
 In: *J Bone Miner Res* 9.8 (May 14, 2021), pp. 1535–1547.
 DOI: [10.1002/jbmr.4320](https://doi.org/10.1002/jbmr.4320).
- [24] M Mähr, S Blouin, M Behanova, B Misof, F Glorieux, J Zwerina, F Rauch, M Hartmann, and N Fratzl-Zelman.
 “Increased Osteocyte Lacunae Density in the Hypermineralized Bone Matrix of Children with Osteogenesis Imperfecta Type I”.
 In: *Int J Mol Sci* 22.9 (Apr. 26, 2021), p. 4508.
 DOI: [10.3390/ijms22094508](https://doi.org/10.3390/ijms22094508).
- [25] M Mähr, S Blouin, B Misof, E Paschalis, M Hartmann, J Zwerina, and N Fratzl-Zelman.
 “Bone properties in osteogenesis imperfecta: what can we learn from a bone biopsy beyond histology”.
 In: *Wien Med Wochenschr* 12.5-6 (Feb. 22, 2021), pp. 111–119.
 DOI: [10.1007/s10354-021-00818-w](https://doi.org/10.1007/s10354-021-00818-w).Epub.
- [26] Riikka E. Mäkitie, Stéphane Blouin, Ville-Valtteri Välimäki, Sandra Pihlström, Kirsi Määttä, Minna Pekkinen, Nadja Fratzl-Zelman, Outi Mäkitie, and Markus A. Hartmann.
 “Abnormal Bone Tissue Organization and Osteocyte Lacunocanalicular Network in Early-Onset Osteoporosis Due to scp iSGMS2/i /scp Mutations”.
 In: *JBMR Plus* 5.11 (Aug. 2021).
 DOI: [10.1002/jbm4.10537](https://doi.org/10.1002/jbm4.10537).

- [27] Cheng-Chia Tang, Christian D Castro Andrade, Maureen J O’Meara, Sung-Hee Yoon, Tadatoshi Sato, Daniel J Brooks, Mary L Bouxsein, Janaina da Silva Martins, Jinhua Wang, Nathanael S Gray, Barbara Misof, Paul Roschger, Stephane Blouin, Klaus Klaushofer, Annegreet Velduis-Vlug, Yosta Vegting, Clifford J Rosen, Daniel O’Connell, Thomas B Sundberg, Ramnik J Xavier, Peter Ung, Avner Schlessinger, Henry M Kronenberg, Rebecca Berdeaux, Marc Foretz, and Marc N Wein. “Dual targeting of salt inducible kinases and CSF1R uncouples bone formation and bone resorption”. In: *eLife* 10 (June 23, 2021), e67772. DOI: [10.7554/elife.67772](https://doi.org/10.7554/elife.67772).
- [28] Alexandra Tits, Erwan Plougonven, Stéphane Blouin, Markus A. Hartmann, Jean-François Kaux, Pierre Drion, Justin Fernandez, G. Harry van Lenthe, and Davide Ruffoni. “Local anisotropy in mineralized fibrocartilage and subchondral bone beneath the tendon-bone interface”. In: *Scientific Reports* 11.1 (Aug. 16, 2021), p. 16534. DOI: [10.1038/s41598-021-95917-4](https://doi.org/10.1038/s41598-021-95917-4).
- [29] N Fratzl-Zelman, S Gamsjaeger, S Blouin, R Kocijan, P Plasenzotti, S Rokidi, K Nawrot-Wawrzyniak, K Roetzer, G Uyanik, G Haeusler, E Shane, A Cohen, K Klaushofer, E Paschalis, P Roschger, P Fratzl, J Zwerina, and E Zwettler. “Alterations of bone material properties in adult patients with X-linked hypophosphatemia (XLH)”. In: *J Struct Biol* 15.3 (June 30, 2020), p. 107556. DOI: [10.1016/j.jsb.2020.107556](https://doi.org/10.1016/j.jsb.2020.107556).
- [30] B Misof, S Blouin, J Hofstaetter, P Roschger, J Zwerina, and R Erben. “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”. In: *Int J Mol Sci* 13.21 (Oct. 27, 2020), p. 7989. DOI: [10.3390/ijms21217989](https://doi.org/10.3390/ijms21217989).
- [31] Barbara M. Misof, Nadja Fratzl-Zelman, Stéphane Blouin, and Markus A. Hartmann. “Knochengewebe und -material im gesunden Menschen und bei Krankheit”. In: *Journal für Mineralstoffwechsel & Muskuloskelettale Erkrankungen* 27.3 (July 2020), pp. 98–101. DOI: [10.1007/s41970-020-00122-w](https://doi.org/10.1007/s41970-020-00122-w).

- [32] Andreas Roschger, Wolfgang Wagermaier, Sonja Gamsjaeger, Norbert Hassler, Ingo Schmidt, Stéphane Blouin, Andrea Berzlanovich, Gerlinde M. Gruber, Richard Weinkamer, Paul Roschger, Eleftherios P. Paschalis, Klaus Klaushofer, and Peter Fratzl.
 “Newly formed and remodeled human bone exhibits differences in the mineralization process”.
 In: *Acta Biomaterialia* 104 (Mar. 2020), pp. 221–230.
 DOI: [10.1016/j.actbio.2020.01.004](https://doi.org/10.1016/j.actbio.2020.01.004).
- [33] Heike Weidner, Ulrike Baschant, Franziska Lademann, Maria G. Ledesma Colunga, Ekaterina Balaian, Christine Hofbauer, Barbara M. Misof, Paul Roschger, Stéphane Blouin, William G. Richards, Uwe Platzbecker, Lorenz C. Hofbauer, and Martina Rauner.
 “Increased FGF-23 levels are linked to ineffective erythropoiesis and impaired bone mineralization in myelodysplastic syndromes”.
 In: *JCI Insight* 5.15 (Aug. 2020).
 DOI: [10.1172/jci.insight.137062](https://doi.org/10.1172/jci.insight.137062).
- [34] Nadja Fratzl-zelman, Paul Roschger, Heeseog Kang, Smita Jha, Andreas Roschger, Stéphane Blouin, Zuoming Deng, Wayne Cabral, Aleksandra Iovic, James Katz, Richard Siegel, Klaus Klaushofer, Peter Fratzl, Timothy Bhattacharyya, and Joan Marini.
 “Melorheostotic Bone Lesions Caused by Somatic Mutations in MAP2K1 Have Deteriorated Microarchitecture and Periosteal Reaction”.
 In: *Journal of Bone and Mineral Research* 34.5 (Jan. 22, 2019), pp. 883–895.
 DOI: [10.1002/jbmr.3656](https://doi.org/10.1002/jbmr.3656).
- [35] Jochen Hofstaetter, Barbara Misof, Dallas Jones, Ruth Zoehrer, Stéphane Blouin, Christiane Schueler, Eleftherios Paschalis, Reinhold Erben, Richard Weinkamer, Klaus Klaushofer, and Paul Roschger.
 “Biomechanical and Bone Material Properties of Schnurri-3 Null Mice”.
 In: *JBMR Plus* 3.11 (Sept. 11, 2019), e10226.
 DOI: [10.1002/jbm4.10226](https://doi.org/10.1002/jbm4.10226).
- [36] B Misof, S Blouin, P Roschger, J Werzowa, K Klaushofer, and G Lehmann.
 “Bone matrix mineralization and osteocyte lacunae characteristics in patients with chronic kidney disease - mineral bone disorder (CKD-MBD)”.
 In: *J Musculoskelet Neuronal Interact* 19.2 (June 1, 2019), pp. 196–206.
- [37] S Rokidi, N Bravenboer, S Gamsjaeger, B Misof, S Blouin, P Chavassieux, K Klaushofer, E Paschalis, S Papapoulos, and N Appelman-Dijkstra.

- “Impact microindentation assesses subperiosteal bone material properties in humans”.
- In: *Bone* 18 (Oct. 23, 2019), p. 115110.
DOI: [10.1016/j.bone.2019.115110](https://doi.org/10.1016/j.bone.2019.115110).
- [38] A Roschger, P Roschger, W Wagermaier, J Chen, A Van Tol, F Repp, S Blouin, A Berzlanovich, G Gruber, K Klaushofer, P Fratzl, and R Weinkamer.
“The contribution of the pericanalicular matrix to mineral content in human osteonal bone”.
- In: *Bone* 123 (Mar. 18, 2019), pp. 76–85.
DOI: [10.1016/j.bone.2019.03.018](https://doi.org/10.1016/j.bone.2019.03.018).
- [39] S Blouin, N Fratzl-Zelman, A Roschger, W Cabral, K Klaushofer, J Marini, P Fratzl, and P Roschger.
“Cortical bone properties in the *Brtl/+* mouse model of Osteogenesis imperfecta as evidenced by acoustic transmission microscopy”.
- In: *Journal of the Mechanical Behavior of Biomedical Materials* 90 (Oct. 11, 2018), pp. 125–132.
DOI: [10.1016/j.jmbbm.2018.10.010](https://doi.org/10.1016/j.jmbbm.2018.10.010).
- [40] Stéphane Blouin, Andreas Roschger, Franz Varga, Barbara Misof, Silvia Spitzer, Paul Roschger, and Klaus Klaushofer.
“Confocal laser scanning microscopy—a powerful tool in bone research”.
- In: *Wiener Medizinische Wochenschrift* 168.11-12 (May 25, 2018), pp. 314–321.
DOI: [10.1007/s10354-018-0639-x](https://doi.org/10.1007/s10354-018-0639-x).
- [41] Martin Kronschläger, Stéphane Blouin, Paul Roschger, Ralph Varsits, and Oliver Findl.
“Attaining the optimal flange for intrascleral intraocular lens fixation”.
- In: *Journal of Cataract and Refractive Surgery* 44.11 (Sept. 12, 2018), pp. 1303–1305.
DOI: [10.1016/j.jcrs.2018.07.042](https://doi.org/10.1016/j.jcrs.2018.07.042).
- [42] Stéphane Blouin, Nadja Fratzl-Zelman, Francis Glorieux, Paul Roschger, Klaus Klaushofer, Joan Marini, and Frank Rauch.
“Hypermineralization and High Osteocyte Lacunar Density in Osteogenesis Imperfecta Type V Bone Indicate Exuberant Primary Bone Formation”.
- In: *Journal of Bone and Mineral Research* 32.9 (June 26, 2017), pp. 1884–1892.
DOI: [10.1002/jbmr.3180](https://doi.org/10.1002/jbmr.3180).

- [43] B Misof, S Blouin, S Lueger, E Paschalis, R Recker, R Phipps, K Klaushofer, and P Roschger.
 “Baseline mineralizing surface determines the magnitude of the bisphosphonate effect on cortical bone mineralization in postmenopausal osteoporotic patients”.
 In: *J Musculoskelet Neuronal Interact* 26.3 (Sept. 1, 2017), pp. 183–191.
- [44] Christian Windpassinger, Juliette Piard, Carine Bonnard, Majid Al-fadhel, Shuhui Lim, Xavier Bisteau, Stéphane Blouin, Nur’ain Ali, Alvin Ng, Hao Lu, Sumanty Tohari, Sza Talib, Noémi Van Hul, Matias Caldez, Lionel Van Maldergem, Gökhan Yigit, Hülya Kayserili, Sameh Youssef, Vincenzo Coppola, Alain De Bruin, Lino Tessarollo, Hyungwon Choi, Verena Rupp, Katharina Roetzer, Paul Roschger, Klaus Klaushofer, Janine Altmüller, Sudipto Roy, Byrappa Venkatesh, Rudolf Ganger, Franz Grill, Farid Ben Chehida, Bernd Wollnik, Umut Altunoglu, Ali Al Kaissi, Bruno Reversade, and Philipp Kaldis.
 “CDK10 Mutations in Humans and Mice Cause Severe Growth Retardation, Spine Malformations, and Developmental Delays”.
 In: *The American Journal of Human Genetics* 101.3 (Sept. 7, 2017), pp. 391–403.
 DOI: [10.1016/j.ajhg.2017.08.003](https://doi.org/10.1016/j.ajhg.2017.08.003).
- [45] B. M. Misof, P. Roschger, S. Blouin, R. Recker, and K. Klaushofer.
 “Bone matrix mineralization is preserved during early perimenopausal stage in healthy women: a paired biopsy study”.
 In: *Osteoporosis International* 27.5 (Dec. 2015), pp. 1795–1803.
 DOI: [10.1007/s00198-015-3446-x](https://doi.org/10.1007/s00198-015-3446-x).
- [46] Stéphane Blouin, Stephan Puchegger, Andreas Roschger, Andrea Berzlanovich, Peter Fratzl, Klaus Klaushofer, and Paul Roschger.
 “Mapping Dynamical Mechanical Properties of Osteonal Bone by Scanning Acoustic Microscopy in Time-of-Flight Mode”.
 In: *Microscopy and Microanalysis* 20.3 (Apr. 11, 2014), pp. 924–936.
 DOI: [10.1017/s1431927614000646](https://doi.org/10.1017/s1431927614000646).
- [47] Andreas Roschger, Sonja Gamsjaeger, Birgit Hofstetter, Admir Masic, Stéphane Blouin, Phaedra Messmer, Andrea Berzlanovich, Eleftherios Paschalis, Paul Roschger, Klaus Klaushofer, and Peter Fratzl.
 “Relationship between the v2PO4/amide III ratio assessed by Raman spectroscopy and the calcium content measured by quantitative backscattered electron microscopy in healthy human osteonal bone”.
 In: *Journal of Biomedical Optics* 19.6 (June 11, 2014), p. 065002.

- DOI: [10.1117/1.jbo.19.6.065002](https://doi.org/10.1117/1.jbo.19.6.065002).
- [48] Valerie Geoffroy, Eleftherios Paschalis, Helene Libouban, Stephane Blouin, Agnes Ostertag, Daniel Chappard, Magali Cros, Roger Phipps, and Marie-Christine De Vernejoul.
“Effects of Risedronate in Runx2 Overexpressing Mice, an Animal Model for Evaluation of Treatment Effects on Bone Quality and Fractures”.
In: *Calcified Tissue International* 88.6 (Apr. 1, 2011), pp. 464–475.
DOI: [10.1007/s00223-011-9480-6](https://doi.org/10.1007/s00223-011-9480-6).
- [49] Jochen Hofstaetter, Stephane Blouin, Ingeborg Friehs, Klaus Klaushofer, and Paul Roschger.
“No Effect of Short-Term Hypertension on Bone Matrix Mineralization in a Surgical Animal Model in Immature Rabbits”.
In: *Clinical and Experimental Hypertension* 34.2 (Oct. 3, 2011), pp. 107–112.
DOI: [10.3109/10641963.2011.601382](https://doi.org/10.3109/10641963.2011.601382).
- [50] Barbara Misof, Eleftherios Paschalis, Stéphane Blouin, Nadja Fratzl-Zelman, Klaus Klaushofer, and Paul Roschger.
“Effects of 1 year of daily teriparatide treatment on iliacal bone mineralization density distribution (BMDD) in postmenopausal osteoporotic women previously treated with alendronate or risedronate”.
In: *Journal of Bone and Mineral Research* 25.11 (Nov. 2010), pp. 2297–2303.
DOI: [10.1002/jbmr.198](https://doi.org/10.1002/jbmr.198).
- [51] Hervé Nyangoga, Stéphane Blouin, Hélène Libouban, Michel Félix Baslé, and Daniel Chappard.
“A single pretreatment by zoledronic acid converts metastases from osteolytic to osteoblastic in the rat”.
In: *Microscopy Research and Technique* 34.8 (Aug. 2010), NA–NA.
ISSN: 1059-910X.
DOI: [10.1002/jemt.20814](https://doi.org/10.1002/jemt.20814).
- [52] Riadh Badraoui, Stéphane Blouin, Marie Moreau, Yves Gallois, Tarek Rebai, Zouhaier Sahnoun, Michel Baslé, and Daniel Chappard.
“Effect of alpha tocopherol acetate in Walker 256/B cells-induced oxidative damage in a rat model of breast cancer skeletal metastases”.
In: *Chemico-Biological Interactions* 182.2-3 (Sept. 23, 2009), pp. 98–105.
DOI: [10.1016/j.cbi.2009.09.010](https://doi.org/10.1016/j.cbi.2009.09.010).

- [53] S Blouin, H Thaler, C Korninger, R Schmid, J Hofstaetter, R Zoehrer, R Phipps, K Klaushofer, P Roschger, and E Paschalis.
 “Bone matrix quality and plasma homocysteine levels”.
 In: *Bone* 44.5 (Jan. 2009), pp. 959–964.
 DOI: [10.1016/j.bone.2008.12.023](https://doi.org/10.1016/j.bone.2008.12.023).
- [54] S Blouin, M Baslé, and D Chappard.
 “Interactions between microenvironment and cancer cells in two animal models of bone metastasis”.
 In: *British Journal of Cancer* 98.4 (Feb. 5, 2008), pp. 809–815.
 DOI: [10.1038/sj.bjc.6604238](https://doi.org/10.1038/sj.bjc.6604238).
- [55] Stéphane Blouin, Hélène Libouban, Marie Moreau, and Daniel Chappard.
Orchidectomy Models of Osteoporosis.
 Vol. 37.
 Humana Press, 2008,
 Pp. 125–134.
 DOI: [10.1007/978-1-59745-104-8_9](https://doi.org/10.1007/978-1-59745-104-8_9).
- [56] Hélène Libouban, Stéphane Blouin, Marie-Françoise Moreau, Michel Baslé, Maurice Audran, and Daniel Chappard.
 “Effects of risedronate in a rat model of osteopenia due to orchidectomy and disuse: Densitometric, histomorphometric and microtomographic studies”.
 In: *Micron* 39.7 (Oct. 2, 2007), pp. 998–1007.
 DOI: [10.1016/j.micron.2007.09.006](https://doi.org/10.1016/j.micron.2007.09.006).
- [57] S Blouin, Y Gallois, M Moreau, M Baslé, and D Chappard.
 “Disuse and orchidectomy have additional effects on bone loss in the aged male rat”.
 In: *Osteoporosis International* 18.1 (Sept. 26, 2006), pp. 85–92.
 DOI: [10.1007/s00198-006-0197-8](https://doi.org/10.1007/s00198-006-0197-8).
- [58] S Blouin, M Moreau, M Baslé, and D Chappard.
 “Relations between Radiograph Texture Analysis and Microcomputed Tomography in Two Rat Models of Bone Metastases”.
 In: *Cells Tissues Organs* 182.3-4 (2006), pp. 182–192.
 DOI: [10.1159/000093967](https://doi.org/10.1159/000093967).
- [59] S. Blouin, M.F. Moreau, P. Weiss, G. Daculsi, M.F. Baslé, and D. Chappard.
 “Evaluation of an injectable bone substitute (TCP/hydroxyapatite/hydroxypropyl-methyl-cellulose) in severely osteopenic and aged rats”.

In: *Journal of Biomedical Materials Research Part A* 78A.3 (2006), pp. 570–580.

DOI: [10.1002/jbm.a.30721](https://doi.org/10.1002/jbm.a.30721).

[60] Stéphane Blouin, Michel Félix Baslé, and Daniel Chappard.

“Rat Models of Bone Metastases”.

In: *Clinical and Experimental Metastasis* 22.8 (Dec. 2005), pp. 605–614.

DOI: [10.1007/s10585-006-9002-5](https://doi.org/10.1007/s10585-006-9002-5).