

Koen Hendrik W. STEIN

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° Belgium, December 26, 1983

Fluent written and spoken Dutch (native), English (profound), French (very good), German (very good).

Notions of Spanish, Hungarian, Korean.



Ambition

Paleontology has always been a major passion of mine. My ambition currently lies in research but equally so in education. Paleontology is sometimes perceived as old fashioned and inaccurate guesswork, despite very modern research methods being used. I want to change this commonly held opinion, and valorize current insights to demonstrate the virtues of modern palaeontology. I have always found that dinosaurs and dinosaur research can be excellent vectors to explain complex scientific questions and modern research methods to laymen and a more than often very young audience. This helps bring scientific literacy to youngsters that would otherwise not be interested in science.

Professional experience

- 2014 – Present: Senior postdoctoral researcher, Vrije Universiteit Brussel, Belgium
- 2014 – Present: scientific collaborator of the Royal Belgian Institute of Natural Sciences, Brussels, Belgium.
- 2017 – 2018: Guest lecturer, Opole University, Poland.
- 2013 – 2014: Postdoctoral researcher, *Museum für Naturkunde, Berlin, Germany*
- 2011- 2013: Postdoctoral researcher. *University of Bonn Germany*
- 2007 – 2011: PhD researcher, *University of Bonn, Germany*

Education

- PhD (Dr. rer. nat., *magna cum laude*). *University of Bonn, Germany 2011*
- MSc in Palaeobiology, with Distinction. *University of Bristol, England 2007*
- Master in Geology, with Distinction. *University of Ghent, Belgium 2005*
- Candidate in Geology. *Free University of Brussels, Belgium 2003*
- May 2003: Impact Stratigraphy Short Course, funded by European Science Foundation. *Gubbio, Italy*
- *Secondary School Fine Arts Degree (obtained June 2001), Academie voor Beeldende Kunsten. Hoboken, Antwerpen, Belgium.*

Continued education

- March 2016 One week *Transmitting Science* workshop “Using Phytools (and other R packages) to Study Macroevolution on Phylogenies”. Taught by Liam Revell at El Hostalets De

Pierola, Spain.

- September 2012 Two days workshop “Molecular clocks and the Fossil Record”. Organized by Johannes Müller, Museum für Naturkunde, Berlin, Germany.
- December 2009 Three days “Paleohistology” workshop. Organized by Kevin Padian at the National Evolutionary Synthesis Centre, Duke University, North Carolina, USA.

Professional meeting organization

- 1-6 July 2019, Organising and Scientific Committee of the 17th annual meeting of the European Association of Vertebrate Palaeontologists at the Royal Belgian Institute of Natural Sciences, Brussels, Belgium.
- 12 – 16 September 2017, Scientific and Organising Committee of the 8th Bone Diagenesis meeting in Oxford, United Kingdom.
- 31 July – 4 August 2017, Scientific Committee of the European Association of Vertebrate Palaeontologists Annual Meeting. Munich, Germany
- 2-7 July 2015, Hosting and Scientific Committee of the Third International Symposium of Paleohistology, held at the Steinmann Insitut in Bonn, Germany.
- 15 November 2012, Organizer of the Symposium on palaeohistology at the Steinmann Insitut in Bonn, Germany. In honour of Robert Curtius award to Prof. Dr. Em. Armand de Ricqlès of Collège de France, Paris.

Student research project supervision

- Benjamin Jentgen, 2016-present: PhD project on sauropodomorph bone histology mechanics and evolution (joint PhD Vrije Universiteit Brussel - Université de Liège, FRIA funded).
- Mina Zaki, MSc 2018, Vrije Universiteit Brussel, Belgium. Using μ CT scanning to unravel the internal anatomy of mummified remains of the temnospondyl amphibian *Trimerorhachis insignis*.
- Filippo Bertozzo, 2016-2017: PhD project on hadrosaur bone histology, ecology and evolution. (Funded by OZR-VUB mandate).
- Elias Goossens, MSc 2017, Vrije Universiteit Brussel, Belgium. Bone histology, life history and preservation of mummified remains of the temnospondyl amphibian *Trimerorhachis insignis*.
- Halvard Caux, Erasmus MSc 2017, Vrije Universiteit Brussel – Université de Lorraine à Nancy. Modified laminar bone in sauropod dinosaurs: diagenetic or true biological feature?
- Benjamin Jentgen, MSc 2016, *Université de Liège, Belgium*. Review of the parataxonomy of megaloolithid dinosaur eggshells and a test of a quantitative approach. Cosupervised with Prof. Dr. Valentin Fischer (ULg)
- Cedric Van Santen, BSc 2016, *Vrije Universiteit Brussel, Belgium*. Een semi-quantitatieve analyse van diagenese van dinosauriër botten van de Howe-Stephens Quarry (Wyoming, USA).
- Jonathan Paz, MSc 2015, *Vrije Universiteit Brussel, Belgium*. Perinatal specimens of a basal hadrosaurid from the Upper Cretaceous of Mongolia. *Cosupervised with Dr. Pascal Godefroit (Royal Belgian Institute of Natural Sciences), Belgium*
- Jessica Mitchell, MSc 2012, *University of Bonn, Germany*. Ontogenetic patterns in secondary remodelling of sauropod long bones.
- Rebecca Hofmann, BSc 2012, *University of Bonn, Germany*. Lamina thickness in laminar fibrolamellar bone. *Cosupervised with Prof. Dr. P.M. Sander.*
- Tim Rietbergen, HBO-thesis 2012, Naturalis, Leiden, The Netherlands, *External Advisor*. The first record of Middle Pleistocene bat remains (Mammalia: Chiroptera) of the Zoolithenhöhle (Burggailenreuth, Germany).

Teaching experience

- Summer semester 2018: Lecturer at Vrije Universiteit Brussel: Origin of life and paleontological evolution (3 ECTS, course administrator, MSc Biology ~ 25 students).
- Winter semester 2017: Guest lecturer for MSc Program in Palaeobiology at University of Opole, Poland. Courses taught: "Basics in Palaeontology", "Methods in Palaeontology" and "Vertebrate Palaeobiology". (English, ~ 20 students, 120 lecture hours)
- Summer semester 2017: Palaeontology and Archaeology workshop at Vrije Universiteit Brussel for the Board of European Students of Technology (BEST): Let's carbon date and celebrate. <https://my.vub.ac.be/nieuws/2017/05/11/best-brussels-summer-course-lets-carbon-date-and-celebrate>. (English, ~ 40 participants)
- Summer semester 2017: Lecturer at Vrije Universiteit Brussel: Origin of life and paleontological evolution (3 ECTS, course administrator, MSc Biology ~ 25 students).
- Summer semester 2016: Vrije Universiteit Brussel: Origin of life and paleontological evolution (3 ECTS, course administrator, MSc Biology, ~ 25 students).
- March 2015: Guest lecture Vrije Universiteit Brussel, Brussels, Belgium. Dinosaurs, macroevolution and mass extinctions. (English, MSc Biology ~ 25 students)
- March 2014: Guest lecture Vrije Universiteit Brussel, Brussels, Belgium. Dinosaur evolution and mass extinctions. (MSc Biology ~ 25 students)
- February 2013: University of Bonn, Knochenhistologie Kurs (German, ~ 20 students)
- Fall semester 2012: University of Bonn, Dinosaur Palaeobiology (~ 20 students)
- March 2012: International Histology Workshop, hosted at U of Bonn (~10 participants)
- Spring semester 2011: University of Bonn, Dinosaur Palaeobiology (~20 students, 3 ECTS)
- March 2011: International Histology Workshop, hosted at U of Bonn (~10 participants)
- March 2010: International Histology Workshop, hosted at U of Bonn (~10 participants)
- April 2007 - June 2007: Gross anatomy, high school biology teacher *ad interim*. Metropolitan Institute for Technical Education (SITO) V, Antwerp, Belgium.

Invited public Lectures

- 5-6/10/2019 Sancerre, public lecture 'Est-il possible de construire aujourd'hui un Jurassic Park?' for the opening of the Maison de la Géologie. *In French*.
- 2/10/2019 Lecture for Stichting GeA Breda, The Netherlands: 'Wat kan je leren uit de botten van dinosaurussen? Een case studie over de Belgische iguanodonts'. *In Dutch*.
- 20/05/2019 Pint of Science Brussels, Belgium. Lecture: 'Slicing life into dinosaurs: what fossil bone tissues and cells tell us about extinct reptiles'. <https://tinyurl.com/y2b7jrv4>. *In English*.
- 17/11/2018 Public lecture at the first International Mammoth Symposium in Dendermonde, Belgium. 'De mammoet van Hoboken'. *In Dutch and English*. <https://tinyurl.com/yxdawccm>
- 24/10 /2018 Public duolecture with Dr. Pascal Godefroit organised by the Belgische Vereniging voor Paleontologie at Vrije Universiteit Brussel: 'Dinosaur bones and feathers: all about the bones.' *In English*.
- 10/03/2018 Public lecture at fossil show 'Paleo Time' in Ede, The Netherlands: 'Evolutie van Iguanodontia in het Krijt van Europa'. *In Dutch*.
- 12/11/2017 Public lecture at fossil show 'Paleo Time' in Wijgmaal near Leuven: 'Plateo time op Paleo-time: sneak peek of Ben the *Plateosaurus*'. In concert with the upcoming unveiling of the new *Plateosaurus* skeleton at the Royal Belgian Institute of Natural Sciences. *In Dutch*.
- 14/06/2017 Public Lecture for the 'Belgische Vereniging voor Paleontologie' at 'Huis Van De

Evolutie' in Sint-Gillis-Waas, Belgium. 'Esthetica overgewaardeerd: het nut van invasieve en destructieve bemonstering van dinosaurius en andere vertebratenfossielen'. *In Dutch*.

- 14/11/2014 Royal Belgian Institute for Natural Sciences, Brussels, Belgium. Lecture in the symposium 'From Dinosaurs to Meteorites' entitled 'Aesthetics are overrated anyway: the added value of destructive sampling of dinosaur and other fossils'. *In English*.
- 24/03/2014 Vrije Universiteit Brussel, Brussels, Belgium. Dinosaurs, macroevolution and mass extinctions. *In English*.
- 11/03/2013 Vrije Universiteit Brussel, Brussels, Belgium. Dinosaur evolution, a tale between and beyond mass extinctions. *In English*.
- 23/11/2011 Rotaract Club Köln, Cologne, Germany. 'Sauropod Gigantism'. *In German*.
- 28/10/2011 Ernst Museum Múcsarnok and Goethe Institut, Budapest, Hungary. 'The evolution of dwarfism on islands, and the case of *Magyarosaurus dacus*'. *In English*.
- 16/10/2011 Natuurhistorisch Museum Maastricht, Maastricht, The Netherlands. Waarom werden sauropode dinosauriërs zo groot? *In Dutch*.
- 27/01/2011 Department of Rheumatology, ZNA AZ Palfijn, Antwerp, Belgium. Het leven van tientonniers: evolutie en ontwikkeling van de corticale botstructuur van sauropode dinosauriërs, de grootste landdieren ooit. *In Dutch*.

Public outreach activities (see also press and media)

- 25/05/2019 Sound of Science festival, Fort IV, Mortsel, Belgium. Information and activity booth with a team of the Royal Belgian Institute of Natural Sciences and Public lecture 'Reisgids voor dinojagers'. <https://tinyurl.com/y2tb4uru>.
- 27/04/2019 I love Science Festival, De Heizel, Brussels. "Rencontre avec le Dr Koen Stein, paléontologue à la VUB. Ce chercheur a étudié les plus vieilles coquilles d'oeufs de dinos connues sur Terre." <https://tinyurl.com/y448ax56>.
- 26/02/2019 Iguanodon 360° four part video series under production of Stéphane Van Israel of the Royal Belgian Institute of Natural Sciences. First episode: <https://tinyurl.com/y2zmq8h8>.
- 28/01/2019 Online lecture 'Universiteit Van Vlaanderen': 'Kan Jurassic Park al in het echt'. <https://tinyurl.com/y2jqjct>, <https://tinyurl.com/yy7b4ehf>.
- ArCPIG Outreach activities: Archaeology, Conservation and Palaeontology Interdisciplinary Group, <http://arcpigvub.wix.com/arcpig>. "Van Indiana Jones tot Labotechnieken" organised at the VUB for high school children (ages 16-18). Our activity on the *Dag van de Wetenschap* on 27/11/2016 was a tremendous success with more than seven hundred visitors to the VUB Health Campus (<http://we.vub.ac.be/en/science-comes-life-dag-van-de-wetenschap>). On 14-22/07/2017 ArCPIG organized a course for the Board of European Students of Technology: 'Let's carbon date and celebrate: a new take on archaeology' (<https://best.eu.org/event/details.jsp?activity=i4kfkkr>). The course generated high interest, and ~30 students from different European cities participated on this first edition.
- 17/01/2017: Toekomst-atelier-de-l'avenir: Workshop on dinosaur palaeontology in an experimental Saturday course for children aged 10 to 14 from the most socioeconomically disadvantaged neighborhoods in Brussels.

Recent press and media

- 06/05/2019 Coverage and promotional material for the exhibition of *Allosaurus* Arkhane: <https://www.vrt.be/vrtnws/nl/2019/05/03/arkhane-raadselachtige-khan-eeen-nieuwe-vleesetende-dino-in/>, <https://tinyurl.com/yyvwyj3e>, <https://tinyurl.com/y24rfaya>, <https://tinyurl.com/y4dr2nkc>,
- 12/11/2019 Coverage of our paper on protein preservation in fossils in *Nature*

Communications: <https://tinyurl.com/yanf4qa3>, <https://tinyurl.com/yyj6fsbl>,
<https://tinyurl.com/yylhyy6>

- 09/03/2018 Coverage of latest research results on the Belgian iguanodonts. <https://tinyurl.com/y3s4pvll>, <https://tinyurl.com/y4upoulv>, <https://tinyurl.com/yy36dlg9>, <https://tinyurl.com/y4yu2qu8>
- 04/01/2019 Coverage on the project surrounding the Hobokens Mammoth: <https://tinyurl.com/y6ghr7m6>, <https://tinyurl.com/y4pyj5hu>, <https://tinyurl.com/yyclq6t6>,
- 14/12/2017 Promotional material for the inauguration of *Plateosaurus* Ben: <https://tinyurl.com/y2wkzeuh>, <https://www.naturalsciences.be/nl/news/item/9181/>, <https://tinyurl.com/y28yhp6w>,
- 08/12/2017 Coverage of our paper on the new dinosaur *Halszkaraptor escuilléi* (see Cau et al. 2017). <https://tinyurl.com/yy3tpnb9>, <https://tinyurl.com/y6z82qjk>, <https://tinyurl.com/y589tmxs>, <http://www.vubtoday.be/nl/node/6700>.
- 30/10/2017 Coverage of the publication of the new French rhabdodontid *Matheronodon* (see publications Godefroit et al. 2017) : <http://we.vub.ac.be/nl/nieuwe-primitieve-iguanodon-ontdekt-met-tanden-als-scharen> , <https://www.demorgen.be/wetenschap/nieuwe-iguanodon-met-ongehoord-grote-tanden-opgegraven-in-frankrijk-bea82ff3/>.
- *Tyrannosaurus rex* "Trix" @ Naturalis, Leiden: In the framework of the exhibit, I consulted for a histological investigation of the specimen. <http://www.vubtoday.be/en/content/oldest-t-rex-trix-view-leiden>, <http://deredactie.be/cm/vrtnieuws/wetenschap/1.2766510>

Popular articles

- Stein, K: (2018) Dinosauriërs – Lannoo Uitgeverij. Scientific supervision of translation from original English version by Chris Wormwell and Lily Murray.
- Stein, K., R. Van Assche (2017) Interview Dr. Koen Stein, postdoctoraal onderzoeker aan de VUB. *Spirifer* 40 (3): 11-14.
- Stein, K. en Claeys Ph. (2015) De dinosaurus in uw achtertuin. *Karakter, Tijdschrift van Wetenschap Academische Stichting Leuven* (51): 2-4. <https://tinyurl.com/yy3vtbfb>.
- Van Braeckel, I. en Stein, K. 2015: Fotoreeks dino-onderzoek. <https://tinyurl.com/yysdqkgt>.

Scientific excavations and research stays abroad

- August 2018: 14 days, Kaycee, Wyoming, USA. Excavation of Late Jurassic dinosaurs from the Morrison Formation.
- August 2016: 7 days, Krasiejow, Opole Voivodeship, Poland. Excavation of Upper Triassic terrestrial vertebrates.
- July 2015: 8 days, Iharkut, Bakony Mountains, Hungary. Excavation of a Cretaceous island vertebrate fauna (dinosaurs and other vertebrates).
- August 2014: 8 days, Iharkut, Bakony Mountains, Hungary. Excavation of a Cretaceous island vertebrate fauna (dinosaurs and other vertebrates).
- September 2013: 8 days, Iharkut, Bakony Mountains, Hungary. Excavation of a Cretaceous island vertebrate fauna (dinosaurs and other vertebrates).
- April 2013: 14 days, Archer County, Texas, USA. Scientific supervision of excavation Lower Permian synapsids.
- August 2012: 14 days, Iharkut, Bakony Mountains, Hungary. Excavation of a Cretaceous island vertebrate fauna (dinosaurs and other vertebrates).
- July 2012: 7 days, Winterswijk, The Netherlands. Excavation of Middle Triassic marine reptiles.

- September 2011: 21 days, Agusta Mountains, Nevada, USA. Excavation of Middle Triassic ichthyosaurs.
- July 2011: 14 days, Winterswijk, The Netherlands. Supervision of student excavation of Middle Triassic marine reptiles.
- April 2011: 17 days, Archer County, Texas, USA. Excavation Lower Permian synapsids.
- March 2011: 4 days, Department of Biological Sciences, FSU, Tallahassee, Florida, USA. DFG funded study of tyrannosauroid dinosaur bone histology.
- September 2010: 14 days, Archer County, Texas, USA. Excavation Lower Permian synapsids.
- July 2010: 4 days, Universidad Federal do Rio Grande do Sul, Porto Alegre, Brazil. DFG funded sampling of basal archosaurs.
- December 2008: 8 days, Lufeng County, Yunnan Province, People's Republic of China. Prospection of Lower Jurassic Lufeng Formation dinosaur fauna.
- December 2008: 16 days, Sirindhorn Dinosaur Museum, Phu Kum Khao, Kalasin, Thailand. DFG funded sampling of prosauropod and early sauropod dinosaurs.
- September 2007: 7 days, Texas Memorial Museum, Austin, Texas. DFG funded sampling of sauropod and giant sloth bone histology.
- June 2007: 7 days, Geological Institute of Hungary (MAFI), Budapest, Hungary. DFG funded sampling of dwarfed dinosaur bone histology.
- November 2005: 5 days, Natural History Museum London, England. Study of kuehneosaur skeletal morphology.

Scientific Publications (peer reviewed)

- Jentgen-Ceshino, B., **Stein, K.**, Fischer, V. (accepted) Case study of radial fibrolamellar bone tissues in the outer cortex of basal sauropods: spiculated periosteal reactive bone. *Philosophical Transactions of the Royal Society B*.
- Stein, K.**, Prondvai, E., Huan, T., Baele, J.-M., Sander, P.M., Reisz, R. (2019) Structure and evolutionary implications of the earliest (Sinemurian, Early Jurassic) dinosaur eggs and eggshells. *Nature Scientific Reports*: 9, Article number: 4424, <https://doi.org/10.1038/s41598-019-40604-8> (open access IF: 4,122)
- Wiemann, J., Fabbri, M., Yang, T.R., **Stein, K.**, Sander, P.M., Norell, M.A., Briggs, D.E.G. (2018) Fossilization transforms vertebrate hard tissue proteins into N-heterocyclic polymers. *Nature Communications*: 9, article nr. 4741. doi: 10.1038/s41467-018-07013-3 (open access IF: 12.353)
- Diez-Diaz, V. Garcia, G. Pereda-Superbiola, X., Jentgen-Ceschino, B., **Stein, K.**, Godefroit, P., Valentin, X. (2018) The titanosaurian dinosaur *Atsinganosaurus velauciensis* (Sauropoda) from the Upper Cretaceous of southern France: New material, phylogenetic affinities, and palaeobiogeographical implications. *Cretaceous Research*: 91, 429-456. <https://doi.org/10.1016/j.cretres.2018.06.015> (IF: 1.928)
- Van der Vos, W. **Stein, K.**, Di-Poï, N., Bickelmann, C. (2018) Ontogeny of *Hemidactylus* (Gekkota, Squamata) with emphasis on the limbs. *Zoosystematics and Evolution*: 94, 195-209. <https://doi.org/10.3897/zse.94.22289> (open access IF: N/A)
- Cau, A., Beyrand, V., Voeten, D.F.A.E., Fernandez, V., Tafforeau, P., **Stein, K.**, Barsbold, R., Tsogtbaatar, K., Currie, P.J., Godefroit, P. (2017). Synchrotron scanning reveals amphibious ecomorphology in a new clade of bird-like dinosaurs. *Nature*. doi:10.1038/nature24679 (IF: 40.137)
- Godefroit, P., G. Garcia, B. Gomez, **K. Stein**, A. C. Cincotta, U. Lefèvre, X. Valentin (2017) Extreme tooth enlargement in a new Late Cretaceous rhabdodontid dinosaur from Southern France. *Nature Scientific Reports*: 7, nr. 13098. DOI: 10.1038/s41598-017-13160-2 (open access IF: 4.847)

- Mitchell J., Sander P.M., **Stein K.** (2017) Can secondary osteons be used as ontogenetic indicators in sauropods? Extending the Histological Ontogenetic Stages into senescence. *Paleobiology*: 43, 321-342. DOI: 10.1017/pab.2016.47 (IF: 2.959)
- Prondvai E., Botfalvai G., **Stein K.**, Szentesi Z., Ösi A. (2017) Collection of the thinnest: a unique eggshell assemblage from the Late Cretaceous vertebrate locality of Iharkút (Hungary). *Central European Geology*: 60, 73-133. DOI: 10.1556/24.60.2017.004 (open access IF: N/A)
- Dewaele L, Tsogtbaatar K, Barsbold R, Garcia G, **Stein K**, Escuillié F, Godefroit P. (2015) Perinatal Specimens of *Saurolophus angustirostris* (Dinosauria: Hadrosauridae), from the Upper Cretaceous of Mongolia. *PLoS ONE* 10(10): e0138806. DOI:10.1371/journal.pone.0138806. (open access IF: 3.234)
- Skutchas, P. P., & **Stein, K. H. W.** (2015). Long bone histology of the stem salamander *Kokartus honorarius* (Amphibia: Caudata) from the Middle Jurassic of Kyrgyzstan. *Journal of Anatomy*: 226, 334-347. DOI: 10.1111/joa.12281 (IF: 2.154)
- Stein, K.**, Prondvai, E. 2014. Rethinking the nature of fibrolamellar bone: An integrative biological revision of sauropod plexiform bone formation. *Biological Reviews*: 89, 24-47. DOI: 10.1111/brv.12041. (IF: 9.67)
- Prondvai, E., and **Stein, K.** 2014. Medullary bone-like tissue in the mandibular symphyses of a pterosaur suggests non-reproductive significance. *Nature Scientific Reports*: 4, article nr. 6253. DOI: 10.1038/srep06253. (open access IF: 5.578)
- Prondvai, E., **Stein, K.**, De Ricqlès A., and Cubo, J. 2014. Development-based revision of bone tissue classification: the importance of semantics for science. *Biological Journal of the Linnean Society*: 112, 799–816. (IF: 2.264)
- Hofmann, R., **Stein, K.**, Sander, P.M. 2014. Structural constraints in laminar bone of dinosaurs and mammals? *Acta Palaeontologica Polonica*: 59, 287-294. <http://dx.doi.org/10.4202/app.2012.0149>. (open access IF: 1.866)
- Stein, K.**, and J. Werner. 2013. Preliminary analysis of osteocyte lacunar density in long bones of tetrapods: all measures are bigger in sauropod dinosaurs. *PLoS ONE*: 8, e77109. DOI:10.1371/journal.pone.0077109. (open access IF: 4.09)
- Shelton, C. D., P. M. Sander, **K. Stein**, and H. Winkelhorst. 2013. Long bone histology indicates sympatric species of *Dimetrodon* (Lower Permian, Sphenacodontidae). *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*: 103, 1–20. (IF: 1.097)
- R. R. Reisz, T. D. Huang, E. Roberts, S.R. Peng, C. Sullivan, **K. Stein**, A. LeBlanc, D.B. Shieh, R.S. Chang, C.C. Chiang, C.W. Yang, S.M. Zong. 2013. Dinosaur embryology: inside the bones of an Early Jurassic sauropodomorph from China. *Nature*: 496, 210-214. DOI:10.1038/nature11978. (IF: 38.6)
- Klein N., Sander P.M., **Stein K.**, Le Loeuff J., Carballido J.L., et al. 2012. Modified Laminar Bone in *Ampelosaurus atacis* and Other Titanosaurs (Sauropoda): Implications for Life History and Physiology. *PLoS ONE*: 7, e36907. DOI:10.1371/journal.pone.0036907. (open access IF: 4.09)
- Prondvai, E., **Stein, K.**, Ósi, A., Sander, P.M. 2012. Life history of *Rhamphorhynchus* inferred from bone histology and the diversity of pterosaurian growth strategies. *PLoS ONE*: 7, e31392. DOI:10.1371/journal.pone.0031392. (open access IF: 4.09)
- Stein, K.**, Z. Csiki, K. Curry Rogers, D. B. Weishampel, R. Redelstorff, J. L. Carballido, and P.M. Sander. 2010. Small body size and extreme cortical bone remodeling indicate phyletic dwarfism in *Magyarosaurus dacus* (Sauropoda: Titanosauria). *Proceedings of the National Academy of Sciences USA*: 107, 9258-9263. DOI:10.1073/pnas.1000781107. (open access IF: 9.74)
- Benton, M.J., Csiki, Z., Grigorescu, D., Redelstorff, R., Sander, P.M., **Stein, K.**, and Weishampel, D.B. 2010. Dinosaurs and the island rule: The dwarfed dinosaurs from Hațeg Island. *Palaeogeography, Palaeoclimatology, Palaeoecology*: 293, 438-454. DOI: 10.1016/j.palaeo.2010.01.026. (IF: 2.39)
- Stein, K.**, and P.M. Sander. 2009. Histological core drilling: a less destructive method for studying bone histology; pp. 69–80 in M. A. Brown, J. F. Kane, and W. G. Parker (eds.), *Methods In Fossil Preparation: Proceedings of the first Annual Fossil Preparation and Collections Symposium*.
- Organ, C., S. Brusatte, and **K. Stein**. 2009. Sauropod dinosaurs evolved moderately sized genomes

unrelated to body size. *Proceedings of the Royal Society B*: 276, 4303-4308. (IF: 5.68)

Stein, K., Palmer, C., Gill, P.G. and Benton M. 2008. The aerodynamics of the Late Triassic British Kuehneosauridae. *Palaeontology*: 51, 967-981. (IF: 1.57)

Peer reviewed book chapters

Stein, K., Jentgen, B., Hellemond, A., Germonpré, M. (2018). *Het citizen-science project rond de Hobokense mammoet* In: Hellemond, A., Mol, D. (eds.) (2018). *Mammoeten en Mammoetecologie, Verslagen van het 2018 Internationaal Mammoet Symposium*. Belgische Vereniging voor Paleontologie & Werkgroep Pleistocene Zoogdieren. Dendermonde. p. 38-41.

Padian, K., **Stein, K.** 2013. Evolution of growth rates and their implications for paleobiology; pp 245–256 in: Padian, K. and Lamm, E.T. eds. *Bone Histology of Fossil Tetrapods: Issues, methods, and databases*. University of California Press, Berkeley.

Sander P.M., Klein N., **Stein K.**, Wings O. 2011. Sauropod bone histology and implications for sauropod biology; pp 276–302 in: Klein N., Remes K., Gee C.T., Sander P.M., eds. *Biology of the Sauropod Dinosaurs: Understanding the Life of Giants*. Bloomington: Indiana University Press.

Invited keynote lectures at professional meetings

Stein, K. (2018) Black beauties: histology and geochemistry of *Iguanodon bernissartensis* from the Early Cretaceous of Bernissart, Belgium. GeoBonn meeting, Bonn 2018, Program and Abstracts. p221-222

Conference abstracts

Stein, K., E. Prondvai, T. Huang, J.-M. Baele, P.M. Sander and R. Reisz (2019). Eggshell of Early Jurassic basal sauropodomorph dinosaurs and the convergent origin of dinosaur eggshells. Program and abstracts of the fifth International Symposium on Paleohistology July 31- August 4 2019, Cape Town South Africa. P

Stein, K., Hübner, T., Godefroit, P., Claeys, Ph. (2019) Histology and growth of Wealden iguanodonts from Belgium and Germany. XVII Conference of the EAVP – Brussels, Belgium 2 – 6 July 2019, Bernissart workshop and field trip in La Malogne underground quarry 1st of July, 2019. P32.

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Jentgen-Ceschino, B., **K. Stein**, V. Fischer. (2018). Cases of pathological bone growth in *Isanosaurus* and *Spinophorosaurus* (Sauropoda). 5th International Paleontological Congress, Paris Fossil Week abstract book. P903.

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Editorial board positions

- Scientific Reports. Academic Editor since 2019.
- European Association of Vertebrate Palaeontologists. Treasurer since 2013.
- Journal of Paleontological Techniques. Academic editor since 2013.
- Frontiers in Ecology and Evolution. Review editor since 2013.
- Palaeovertebrata. Scientific editor since 2014

Occasional reviewer for Nature, Scientific Reports, Current Biology, BMC Evolutionary Biology, Biol. J. Lin. Soc., PLoS One, CRPalévol, Acta Pal. Pol., Naturwissenschaften, Anatomical Record, Cretaceous Research

Professional body memberships

- Paläontologische Gesellschaft (Since 2012)
- Society of Vertebrate Paleontology (Since 2007)
- European Association of Vertebrate Palaeontologists (Since 2006)
- Palaeontological Association (Since 2005)

Other interests & hobbies

- Motorcycle maintenance
- Modelling, 3D printing and moulding and casting of fossils
- Judo since 1990 with international experience (Antwerp, Brussels, Bristol, Bonn, Berlin), including training by late national British olympic coach Simon Hicks.

References for this resumé

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