

Dr. Koen Hendrik W. STEIN

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www.koenstein.com

° Belgium, December 26, 1983

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

Notions of Spanish, Hungarian, Korean.



Ambition

Paleontology has always been a major passion of mine. My ambition lies in research but equally so in education. Paleontology is sometimes perceived as old fashioned and inaccurate guesswork, despite very modern research methods 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 may otherwise not be interested in science.

Professional experience

- 2020 – present: Educational service of the Royal Belgian Institute of Natural Sciences (RBINS)
- 2022 March: Parental leave
- 2021 – 2022: Postdoctoral researcher at RBINS (Belspo funded 20%)
- 2020 – 2022: Scientific collaborator, Vrije Universiteit Brussel, Belgium
- 2020 March: Parental leave
- 2014 – 2020: Senior postdoctoral researcher, Vrije Universiteit Brussel, Belgium
- 2014 – 2020: Scientific collaborator of the RBINS, 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*
- 2006 – 2007: Ad interim, natural sciences teacher. *Leonardo Lyceum Olympiade, Antwerp, Belgium*

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.*

Funded grant applications

2021 – 2022: Postdoctoral researcher at RBINS in the project: “*Shepherding the “Belle Epoque” Bernissart Iguanodon collection into the 21st century: Iguanodon 2.0*” (Belspo funded, 20% position)

2017 – 2020: Senior postdoctoral researcher, Vrije Universiteit Brussel, Belgium: “*Paleohistology and histochemistry of fossil dinosaur bone cells, theropod medullary bone tissue and hadrosaur dental tissues*” (FWO funded)

2014 – 2017: Postdoctoral researcher Vrije Universiteit Brussel, Belgium: “*CSI Hadrosaurs: Evolution, ecology and extinction of the last megaherbivores of the latest Cretaceous*” (FWO funded)

2013 – 2014: Postdoctoral researcher, Museum für Naturkunde, Berlin, Germany: *The origin of the giant salamander genome. Can we trace it in the fossil record?* (DFG funded)

2011- 2013: Postdoctoral researcher, University of Bonn Germany: *Tracing the origin of dinosaurian high metabolic rates in ancestral archosaurs* (DFG funded)

2007 – 2011: PhD researcher, University of Bonn, Germany: *Long bone histology and growth in the sauropod dinosaurs* (DFG funded)

Scientific manuscripts submitted and being prepared for publication

Bertozzo, F., **Stein, K.**, Varotto, E., Galasso, F.M., Ruffell, A., Murphy, E. Histological analysis of a traumatic injury in an iguanodontian femur from England: aetiology and ecological significance. *In revision for Journal of Anatomy*.

Stein K., Reisz, R., Sander M. Contesting the hypothesis that the first dinosaur egg was soft. *Submitted as Matters Arising to Nature* in response to Norrell et al. 2020 *Nature* **583**, 406–410 (2020)

Hendrickx, C., Trapman, T.H., Holwerda, F.M., **Stein K.H.W.**, Wills, S., Rauhut, O.W.M., Melzer, R., Van Woensel, J., Reumer J.W.F. Isolated theropod teeth from the Cenomanian Kem Kem Group of Morocco: new analyses and implications for theropod diversity. *Revision submitted to Journal of Vertebrate Paleontology*.

Stein, K. On demand book review. de Buffrénil, V. A. J. de Ricqlès, L. Zylberberg, and K. Padian (Editors), M. Laurin and A. Quilhac (Associate Editors). 2021. *Vertebrate Skeletal Histology and Paleohistology*. CRC Press, Boca Raton, Florida, 825 pp. *To be submitted to CR Palévol*.

Stein, K., Hübner, T., Bertozzo, F., de Winter, N.J., Rey, K. Snoeck, S., Claeys, Ph., Godefroit, P. Life history and paleoecology of Early Cretaceous Belgian and German *Iguanodon* populations, with notes on preservation. *To be submitted to Biology*.

Scientific Publications (peer reviewed)

Dieudonné, P.E., Fernandez-Baldor, F.T., **Stein, K.** (2023) Histogenesis and growth dynamics of the tiny Vegagete rhabdodontomorph hindlimb (Ornithischia, Ornithomorphs): Paleocological and evolutionary implications. *Cretaceous Research* **141**, 105342. <https://doi.org/10.1016/j.cretres.2022.105342> (IF: 2,432)

During, M.A.D., Smit, J., Voeten, D.F.A.E., Berruyer, C. Tafforeau, P., Sanchez, S. **Stein K. et al.** (2022) The Mesozoic terminated in boreal spring. *Nature* **603**, 91–94. <https://doi.org/10.1038/s41586-022-04446-1> (IF: 69,5)

Díez Díaz, V., Garcia, G., Pereda Suberbiola, X., Jentgen-Ceschino, B., **Stein, K.**, Godefroit, P., Valentin, X. (2021) A new titanosaur (Dinosauria: Sauropoda) from the Upper Cretaceous of Velaux-La-Bastide Neuve (southern France). *Historical Biology*: **33**, 2998-3017. <https://doi.org/10.1080/08912963.2020.1841184> (IF: 2,023)

Jentgen-Ceschino, B., **Stein, K.**, Fischer, V. (2020) 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*: **375**, 1-12. <https://doi.org/10.1098/rstb.2019.0143> (open access IF: 6,139)

- 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-Díaz, 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 Lamina 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)

Books and book chapters

- Stein, K.**, Demeulemeester, T. (2022) Dinosaurs are collectible: dino's in kunst en wetenschap. Lannoo: Tielt. ISBN 9789401482141. 176 pp (also available in *English*: Dinosaurs are collectible: Digging for dinosaurs - the art, the science).
- 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.

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

- Sara Garcia-Arranz, 2020: BSc project on dinosaur growth and ecology. Erasmus exchange with University of Barcelona.
- Benjamin Jentgen, 2016-2021: 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 megalolithid 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.

Awards / Distinctions

Palaeontologica Belgica award 2020 for outstanding efforts in science communication and collaborating with citizen scientists. <https://www.palaeontologica-belgica.org/palaeontologica-belgica-awards>

Invited public Lectures

- 17/04/2023 Crézancy-en-Sancerre, Colloque in Memoriam Yves Coppens, 'L'extinction, c'est pour toujours?'. *In French*
- 16/09/2021 Harelbeke, public lecture 'Dinosaurius evolutie en extinctie'. *In Dutch*.
- 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 iguanodons'. *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 tientonnars: evolutie en ontwikkeling van de corticale botstructuur van sauropode dinosauriërs, de grootste landdieren ooit. *In Dutch.*

Public outreach activities (see also www.koenstein.com)

- 27/05/2023: Nerdland Festival: Kids talk (45 min) Dino's met Blip, Toon en Koen. <https://www.nerdlandfestival.be/nl/programma/dino-s-met-blip-toon-verlinden-koen-stein>
- 21/11/2022 Online lecture 'Universiteit Van Vlaanderen': 'Grote dino's'. <https://www.universiteitvanvlaanderen.be/college/kunnen-mensen-ooit-zo-groot-worden-als-dinos>
- 03-05/06/2022 Nerdland Festival, Domein Puyenbroeck, Belgium. Dinosaur movie Science with comedian Xander Derycke for 1600 participants.
- 28-29/08/2021 Sound of Science for kids. Six lectures on the Iguanodon discovery and Belgian dinosaurs. <https://www.soundofscience.be/info-tickets/sound-of-science-for-kids-extra>
- 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/y2jqjact>, <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 Hoboken 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/y28yhpgw>,
- 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>.

Field experience 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, Universidade 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.

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.
- 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.
- Jentgen-Ceschino, B., **Stein K.**, Fischer, V. (2019) Cases of Pathological bone growth in *Isanosaurus* and *Spinophorosaurus* (Sauropoda): periosteal reaction and tumor-like conditions in dinosaurs. XVII Conference of the EAVP – Brussels, Belgium 2 – 6 July 2019, Program and Abstracts, P. 51.
- Stein, K.H.W.**, Y. Bolotski, I. Bolotski, Ph. Claeys, P. Godefroit (2018) Histologie osseuse des hadrosaures de la fin du Crétacé de l'Extrême Orient russe. Journal de l'APF n°74, p47.
- 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.
- Stein, K.**, T. Hübner, S. Hayashi, Y. Bolotski, I. Bolotski, Ph. Claeys, P. Godefroit (2018) Osteohistology sheds light on the origin of high growth rates in Iguanodontia. 5th International Paleontological Congress, Paris Fossil Week abstract book. P925.
- de Rooij, J., Schulp, A.S., Reumer, J.W.F., **Stein, K.** (2018) Discovery of a Triceratops bonebed: Triceratops long bone histology and the latitudinal gradient hypothesis. XVI Annual Meeting of the European Association of Vertebrate Palaeontology, Caparica, Portugal. Abstract book, p57
- Díez Díaz, V., G. Garcia , X. Pereda Suberbiola , B. Jentgen-Ceschino , **K. Stein** , P. Godefroit and X. Valentin (2018). A new titanosaurian sauropod from the late cretaceous of Velaux-la Bastide Neuve (southern France). Annual meeting of the european association of vertebrate palaeontology, Caparica, Portugal. Program and abstracts, p60
- Jentgen-Ceschino, B , **K. Stein** , V. Díez Díaz , G. Garcia , X. Valentin and V. Fischer (2018). Lightning and the thunder: insular dwarfism inferred from long bone histology of the titanosaurian *Atsinganosaurus velauciensis*. XVI Annual Meeting of the European Association of Vertebrate Palaeontology, Caparica, Portugal. Abstract book, p87.
- Stein, K.**, E. Prondvai , T. Huang , J.-M. Baele , P.M. Sander and R. Reisz (2018). Eggshell of Early Jurassic basal sauropodomorph dinosaurs. XVI Annual Meeting of the European Association of Vertebrate Palaeontology, Caparica, Portugal. Program and abstracts, p180
- Stein, K.**, E. Prondvai , T. Huang , J.-M. Baele , P.M. Sander and R. Reisz (2018). Eggshell of basal sauropodomorph dinosaurs and the origin of the amniote eggshell. *Journal of Vertebrate Paleontology*, Program and Abstracts, p221-222.
- Bertozzo, P., **Stein, K.**, Godefroit, Ph. Claeys (2017) The mummy returns: "Laura", an exceptionally preserved hadrosaurid mummy from Montana (USA), with remarks on the fossilized integument. *Annual Meeting of the European Association of Vertebrate Palaeontologists, Munich 2017, Program and Abstracts*.
- Stein, K.**, C. Snoeck, T. Hübner, F. Bertozzo, P. Godefroit Ph. Claeys (2017) Histology and growth of *Iguanodon bernissartensis*. *Annual Meeting of the European Association of Vertebrate Palaeontologists, Munich 2017, Program and Abstracts*.

- Bertozzo, P., **Stein, K.**, Godefroit, Ph. Claeys (2017) The mummy returns: "Laura", an exceptionally preserved hadrosaurid mummy from Montana (USA), with remarks on the fossilized integument. *Journal of Vertebrate Paleontology, Program and Abstracts*, P30
- G. Garcia, P. Godefroit, 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. *Journal of Vertebrate Paleontology, Program and Abstracts*, P117
- Stein, K.**, C. Snoeck, T. Hübner, F. Bertozzo, P. Godefroit Ph. Claeys (2017) Histology and growth of *Iguanodon bernissartensis*. *Journal of Vertebrate Paleontology, Program and Abstracts*, P198
- H. Caux, K. Stein**, C. Snoeck, N. Klein, M. P. Sander, Ph. Claeys (2017) Diagenesis as cause for 'modified laminar bone' in sauropod dinosaurs? 8th Bone Diagenesis meeting Oxford 2107, Program and Abstracts, P39 https://docs.wixstatic.com/ugd/356194_b933f88357584e528d097c7583252933.pdf (poster prize winner).
- Stein, K.**, C. Snoeck, T. Hübner, F. Bertozzo, P. Godefroit Ph. Claeys (2017) Preservation and diagenesis of the bones and teeth of *Iguanodon bernissartensis* (Dinosauria: Ornithopoda) from the Early Cretaceous of Belgium. 8th Bone Diagenesis meeting Oxford 2107, Program and Abstracts, P13 https://docs.wixstatic.com/ugd/356194_b933f88357584e528d097c7583252933.pdf
- Stein, K.**, Bolotski, Y., Bolotski, I., Snoeck, C., Dewinter, N., Tsogtbaatar, K., Barsbold, R., Hayashi, S., Godefroit, P., Claeys, P. (2016). Preliminary results on the bone histology of hadrosaurs from the latest cretaceous of far eastern Russia. *Journal of Vertebrate Paleontology, Program and Abstracts*, P230.
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- Claeys, P., De Winter, N., **Stein, K.** & Snoeck, C. (2016). Multi-Proxy Analyses of Bioapatites: Implications for Palaeoecology, Palaeoclimatology and Bioarchaeology. Poster session presented at Goldschmidt 2016, Yokohama, Japan.
- Snoeck, C., De Winter, N., **Stein, K.** & Claeys, P. (2016). Investigating Diagenetic Patterns Using $\delta^{18}\text{O}$ and $\delta^{18}\text{O}$ in Bone and Tooth Apatite of Modern, Archaeological and Fossil Specimens. Abstract from Goldschmidt 2016, Yokohama, Japan.
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- Stein, K.**, Skutchas, P., Schoch, R. & Fröbisch, N. (2016). Evolution of genome size in recent and fossil salamanders. Program & Abstracts of the 11th International Congress of Vertebrate Morphology, Washington, DC 2016. Special Volume ed. Anatomical Record, Vol. 299, p. 190-191 2 p.
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- Stein, K.**, E. Prondvai, T. Huang, R.R. Reisz, and P. M. Sander (2016). Flexible eggshell in Lower Jurassic prosauropod dinosaurs and the origin of the dinosaurian egg. 5th International Geologica Belgica 2016 Congress Mons Belgium, conference program & abstract book.
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- Stein, K.**, E. Buffetaut, and M. Sander. (2013). The evolution of sauropodomorph long bone histology revisited: Long bone histology of a "prosauropod" (Dinosauria: Sauropodomorpha) from the Late Triassic of Normandy and a comparison with some large bone shafts from the Late Triassic Aust Cliff near Bristol (England). In L. Picot, and E. Buffetaut, eds. *European Association of Vertebrate Palaeontologists 11th Annual Meeting Abstracts Volume*. Paléospace, Villers-sur-mer, France.
- Stein, K.**, and E. Prondvai. (2012). No fibrous (woven) bone in sauropod 'fibrolamellar' bone? *Journal of Vertebrate Paleontology* 32:178A.

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- Stein, K.**, Reisz, R.R., and Huang, T. (2012). Preliminary report on the histology of embryonic bones from a bonebed from the Lower Jurassic Lufeng Formation, Yunnan, China. Pp. 243-245. In R. Royo-Torres, F. Gascó, and L. Alcalá, eds. *European Association of Vertebrate Palaeontologists 10th Annual Meeting*. Fundación Conjunto Paleontológico de Teruel – Dinópolis, Teruel. Teruel, Spain. (extended abstract)
- Stein, K.** (2011). Osteocyte lacuna density in saurischian dinosaurs and the convergence of fibrolamellar bone in mammals and dinosaurs: different strategies to grow fast. *Journal of Vertebrate Paleontology* 31:133A.
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- Shelton, C. D., **K. Stein**, and P. M. Sander. (2011). Utilizing morphometrics and histology of appendicular skeletal elements to determine what *Dimetrodon* species are present in the Briar Creek Bone Bed (Lower Permian, Archer County, Texas). P. 52. In A. Van der Geer, and A. Athanassiou, eds. *European Association of Vertebrate Palaeontologists 9th Annual Meeting Abstracts Volume*. Natural History Museum of Crete, Heraklion, Crete, Greece.
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- Stein, K.** and Sander, M. (2010). Sauropodomorph long bone histology through time and ontogeny. P. 77. In T. Tortosa, ed. *European Association of Vertebrate Palaeontologists 8th Annual Meeting*. Museum d'Histoire Naturelle, Aix en Provence. Aix en Provence, France
- Stein, K.**, and M. C. Langer. (2009). The long bone histology of the stem-sauropodomorph *Saturnalia tupiniquim*, implications for the early evolution of dinosaur bone microstructure. *Journal of Vertebrate Paleontology* 29:185A.
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- Stein, K.**, Palmer, C., Gill, P., and Benton, M.J. (2007). The aerodynamics of the Late Triassic British Kuehneosauridae. P. 60. In J. Le Loeuff, ed. *European Association of Vertebrate Palaeontologists 5th Annual Meeting Abstracts Volume*. Musée des Dinosaures, Espéraza. Carcassonne, France.

Editorial board positions

- 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

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

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