

## Publications by Uwe Kierdorf (last update: February 2024)

### 2024

- Emken, S.; Witzel, C.; Kierdorf, U., Frölich, K.; Kierdorf, H. (2024) A labeling study of dentin formation rates during crown and root growth of porcine mandibular first molars. *The Anatomical Record*, doi: 10.1002/ar.25358
- Stock, S.R.; Kierdorf, U., James, K.C.; Shevchenko, P.D.; Natanson, L.J.; Gomez, S.; Kierdorf, H. (2024) Micrometer-scale structure in shark vertebral centra. *Acta Biomaterialia*, doi: 10.1016/j.actbio.2024.01.033
- Witzel, C., Degenhardt, S., Semmelroth, M., Schultz, M., Kierdorf, U., Flohr, S. (2024) Identification and interpretation of heat-induced changes in bone: A study of experimentally heated roe deer antler bone and its implications for the interpretation of human remains from Tombs VI and VII of Qatna. In: Pfälzner P, Schmidt C, Dohmann H. (eds.). Qatna Studien 9. Der Königsgruftkomplex von Qaṭna, Teil 2: Die Grabkammern – Befund, Kontext, Rekonstruktion. Harrassowitz, Wiesbaden: In press.

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- Emken, S.; Witzel, C.; Kierdorf, U., Frölich, K.; Kierdorf, H. (2023) Wild boar versus domestic pig – deciphering of crown growth in porcine second molars. *Journal of Anatomy* **242**, 1078-1095.
- Flohr, S., Kierdorf, U., Kierdorf, H., Mudry, A. (2023) Is the promontory a promising site to diagnose otitis media in paleopathology? A search for evidence. *International Journal of Paleopathology* **43**, 106-111.
- Flohr, S., Witzel, C., Kierdorf, U. (2023) Pronounced hyperostosis frontalis interna and co-occurring lesions in the skull base suggestive of a pituitary tumor in a woman from medieval Germany. *International Journal of Osteoarchaeology* **33**, 1095-1100.
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- Kahle, P., Gallus, M., Kierdorf, H., Kierdorf, U. (2023) Age estimation in the harbour seal (*Phoca vitulina*) based on the closure of skull sutures and synchondroses. *Anatomia Histologia Embryologia* **52**, 300-311.
- Kierdorf, U., Flohr, S., Dullin, C., Kierdorf, H. (2023) Bilateral dislocation of the hip joint and associated pathological changes in the ossa coxae and femora of a European roe deer (*Capreolus capreolus*). *PLoS ONE* **18** (8): e0290586 (pp 1-12).
- Kierdorf, U., Gomez, S., Stock, S.R., Antipova, O., Kierdorf, H. (2023) Bone resorption and formation in the pedicles of European roe deer (*Capreolus capreolus*) in relation to the antler cycle – A morphological and microanalytical study. *Journal of Anatomy* **243**, 842-859.
- Kierdorf, U., Ludolphy, C., Kierdorf, H. (2023) Antlers as bioindicators of environmental pollution: principles, achievements, and future research directions. *Animal Production Science* **63**, 1594-1606.

### 2022

- Flohr, S.; Kierdorf, U. (2022) Abnormal bone loss in the external auditory canal of two adult humans from the medieval period of Germany – an attempt at differential diagnosis. *International Journal of Osteoarchaeology* **32**, 938-943.
- Kierdorf, H.; Kierdorf, U.; Greven, H.; Clemen, G. (2022) Dental structure and tooth attachment modes in the common fangtooth *Anoplogaster cornuta* (Valenciennes, 1833) (Actinopterygii; Trachichthyiformes; Anoplogastridae). *PLoS ONE* **17 (8)**: e0272860 (pp 1-23).
- Kierdorf, U.; Flohr, S.; Kahlke, R.-D. (2022) Post-traumatic osteomyelitis in an immature *Bison menneri* from the Early Pleistocene site of Untermaßfeld. In: Kahlke R.-D. (ed.) The Pleistocene of Untermaßfeld near Meiningen (Thüringen, Germany). Part 5. Monographien des Römisch-Germanischen Zentralmuseums Mainz Vol. 40 (5), 1325-1337.
- Kierdorf, U., Stock, S.R., Gomez, S., Antipova O, Kierdorf, H. (2022) Distribution, structure, and mineralization of calcified cartilage remnants in hard antlers. *Bone Reports* **16**, 101571 (pp 1-12).
- Ludolphy, C.; Kierdorf, U.; Kierdorf, H. (2022) Antlers of European roe deer (*Capreolus capreolus*) as monitoring units to assess lead pollution in a floodplain contaminated by historical metal ore mining, processing, and smelting in the Harz Mountains, Germany. *Environmental Pollution* **302**, 119080 (pp 1-9).
- Steingräber, L.F.; Ludolphy, C.; Metz, J.; Germershausen, L.; Kierdorf, H.; Kierdorf, U. (2022) Heavy metal concentrations in floodplain soils of the Innerste River and in leaves of wild blackberries (*Rubus fruticosus* L. agg.) growing within and outside the floodplain – the legacy of historical mining activities in the Harz Mountains (Germany). *Environmental Science and Pollution Research* **29**, 22469-22482.
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- Kierdorf, U.; Kierdorf, H. (2021) Bilateral antler sequestration above the coronet in a red deer (*Cervus elaphus*) stag–insights into the process of antler casting. *Anatomia Histologia Embryologia* **50**, 422-428.
- Kierdorf, U.; Schultz, M.; Kierdorf, H. (2021) The consequences of living longer–Effects of an experimentally extended velvet antler phase on the histomorphology of antler bone in fallow deer (*Dama dama*). *Journal of Anatomy* **239**, 1104-1113.
- Ludolphy, C.; Kierdorf, U.; Kierdorf, H. (2021) Lead concentrations in antlers of European roe deer (*Capreolus capreolus*) from an agricultural area in Northern Germany over a 119-year period—a historical biomonitoring study. *Environmental Science and Pollution Research* **28**, 56069-56078.

## 2020

- Becker, M.; Witzel, C.; Kierdorf, U.; Frölich, K.; Kierdorf, H. (2020) Ontogenetic changes of tissue compartmentalization and bone type distribution in the humerus of Soay sheep. *Journal of Anatomy*, **237**, 334-354.
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- Riede, F.; Kierdorf, U. (2020) The eruption of the Laacher See volcano (~13,000 years BP) and possible fluoride poisoning amongst contemporaneous wildlife and human foragers – outline of a hypothesis and the way to test it. *International Journal of Osteoarchaeology* **30**, 855-871.

## 2019

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- Kierdorf, H.; Breuer, F.; Witzel, C.; Kierdorf, U. (2019) Pig enamel revisited – Incremental markings in enamel of wild boars and domestic pigs. *Journal of Structural Biology* **205**, 48-59.
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- Flache, L.; Becker, N.I.; Kierdorf, U.; Czarnecki, S.; Düring, R.-A.; Encarnação, J.A. (2018) Similar but not the same: metal concentrations in hair of three ecologically similar, forest-dwelling bat species (*Myotis bechsteinii*, *Myotis nattereri* and *Plecotus auritus*). *Environmental Science and Pollution Research* **25**, 5437-5446.
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