

**Publications by Uwe Kierdorf
(last update: April 2022)**

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*, <https://doi.org/10.1002/oa.3108>
- Heckeberg, N., Zachos, F., Kierdorf, U. (2022) Antler tine homologies and cervid systematics – a review of past and present controversies with special emphasis on *Elaphurus davidianus*. *The Anatomical Record*, in press.
- 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.

2021

- Emken, S.; Witzel, C.; Kierdorf, U., Frölich, K.; Kierdorf, H. (2021) Characterization of short-period and long-period incremental markings in porcine enamel and dentine—Results of a fluorochrome labelling study in wild boar and domestic pigs. *Journal of Anatomy* **239**, 1207-1220.
- Kierdorf, H.; Witzel, C.; Bocaege, E.; Richter, T.; Kierdorf, U. (2021) Assessment of physiological disturbances during pre- and early postnatal development based on microscopic analysis of human deciduous teeth from the Late Epipaleolithic site of Shubayqa 1 (Jordan). *American Journal of Physical Anthropology* **174**, 20-34.
- 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.
- Kierdorf, U.; Kahlke, R.-D. (2020) Pathological findings on remains of hippopotamids from the Early Pleistocene site of Untermassfeld. In Kahlke R.-D. (ed.) *The Pleistocene of Untermassfeld near Meiningen (Thüringen, Germany)*. Part 4. Monographien des Römisch-Germanischen Zentralmuseums Mainz Vol. 40 (4), 1251-1272.
- 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

- Flohr, S.; Hartmann, A.K.; Kierdorf, H.; Schultz, M.; Kierdorf, U. (2019) Histomorphological study on hypocellularity in mastoid processes from archaeological human skeletons. *International Journal of Paleopathology* **26**, 27-36.
- Kahle, P.; Rolvien, T.; Kierdorf, H.; Roos, A.; Siebert, U.; Kierdorf, U. (2019) Age-related changes in size, bone microarchitecture and volumetric bone mineral density of the mandible in the harbor seal (*Phoca vitulina*). *PLOS ONE* **14** (10): e0224480 (pp 1-15).
- 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.
- Kierdorf, U.; Olsen, M.T.; Kahle, P.; Ludolph, C.; Kierdorf, H. (2019) Dental pulp exposure, periapical inflammation and suppurative osteomyelitis of the jaws in juvenile Baltic grey seals (*Halichoerus grypus grypus*) from the late 19th century. *PLOS ONE* **14** (4): e0215401 (pp 1-26).
- Landete-Castillejos, T.; Kierdorf, H.; Gomez, S.; Luna, S.; García, A.J.; Cappelli, J.; Pérez-Barbería, J.; Gallego, L.; Kierdorf, U. (2019) Antlers – evolution, development, structure, composition, and biomechanics of an outstanding type of bone. *Bone* **128**: 115046 (pp. 1-20).

2018

- Death, C.; Coulson, G.; Kierdorf, U.; Kierdorf, H.; Ploeg, R.; Firestone, S.; Dohoo, I.; Hufschmid, J. (2018) Chronic excess fluoride uptake contributes to degenerative joint disease (DJD): evidence from six marsupial species. *Ecotoxicology and Environmental Safety* **162**, 383-390.
- 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.
- Flohr, S.; Jasch, I.; Lange, A.; Riesenberger, M.; Hahn, J.; Wisotzki, A.; Kierdorf, H.; Kierdorf, U.; Wahl, J. (2018) Secondary hypertrophic osteoarthropathy in a male from the Early

Medieval settlement of Lauchheim, Germany. *International Journal of Paleopathology* **20**, 72-79.

- Kahle, P.; Ludolph, C.; Kierdorf, H.; Kierdorf, U. (2018) Dental anomalies and lesions in Eastern Atlantic harbor seals, *Phoca vitulina vitulina* (Carnivora, Phocidae), from the German North Sea. *PLOS ONE* **13** (10): e0204079 (pp 1-25).
- Kahle, P.; Witzel, C.; Kierdorf, U.; Frölich, K.; Kierdorf, H. (2018) Mineral apposition rates in coronal dentine of mandibular first molars in Soay sheep: Results of a fluorochrome labeling study. *The Anatomical Record* **301**, 902-912.
- Ludolph, C.; Kahle, P.; Kierdorf, H.; Kierdorf, U. (2018) Osteoarthritis of the temporomandibular joint in the Eastern Atlantic harbour seal (*Phoca vitulina vitulina*) from the German North Sea: a study of the lesions seen in dry bone. *BMC Veterinary Research* **14**:150 (pp 1-14).
- Witzel, C.; Kierdorf, U.; Frölich, K.; Kierdorf, H. (2018) The pay-off of hypsodonty - timing and dynamics of crown growth and wear in molars of Soay sheep. *BMC Evolutionary Biology* **18**:207 (pp 1-14).

2017

- Death, C.; Coulson, G.; Kierdorf, U.; Kierdorf, H.; Ploeg, R.; Firestone, S.M.; Dohoo, I.; Hufschmid, J. (2017) Skeletal fluorosis in marsupials: a comparison of bone lesions in six species from an Australian industrial site. *Science of the Total Environment* **584-585**, 1198-1211.
- Flohr, S.; Rieger, A.; Orschiedt, J.; Kierdorf, H.; Kierdorf, U. (2017) An osteometric study on the variation in orientation of the lesser trochanter in an early medieval human skeletal assemblage and comparison with an individual from the Late Upper Paleolithic. *International Journal of Osteoarchaeology* **27**, 888-897.
- Kierdorf, U.; Miller, K.V.; Flohr, S.; Gomez, S.; Kierdorf, H. (2017) Multiple osteochondromas of the antlers and cranium in a free-ranging white-tailed deer (*Odocoileus virginianus*). *PLOS ONE* **12** (3): e0173775 (pp 1-14).
- Orschiedt, J.; Kierdorf, U.; Schultz, M.; Baales, M.; von Berg, A.; Flohr, S. (2017) The Late Upper Palaeolithic human remains from Neuwied-Irlich, Germany. A rare find from the Late Glacial of Central Europe. *Quartär* **64**, 203-216.
- Winter, R.; Mucedda, M.; Pidinchedda, E.; Kierdorf, U.; Schmidt, S.; Mantilla-Contreras, J. (2017) Small in size but rich in bats – species diversity and abandoned man-made structures put Asinara Island (Sardinia) into conservation focus for bats in the Mediterranean region. *Acta Chiropterologica* **19**, 119-126.

2016

- Flache, L.; Ekschmitt, K.; Kierdorf, U.; Czarnecki, S.; Düring, R.-A.; Encarnação, J.A. (2016) Reduction of metal exposure of Daubenton's bats (*Myotis daubentonii*) following remediation of pond sediment as evidenced by metal concentrations in hair. *Science of the Total Environment* **547**, 182-189.
- Flohr, S.; Kierdorf, U.; Kierdorf, H. (2016) Odontometric sex estimation in humans using measurements on permanent canines. A comparison of an early Neolithic and an early medieval assemblage from Germany. *Anthropologischer Anzeiger* **73**, 225-233.

- Kierdorf, H.; Rhede, D.; Death, C.; Hufschmid, J.; Kierdorf, U. (2016) Reconstructing temporal variation of fluoride uptake in eastern grey kangaroos (*Macropus giganteus*) from a high-fluoride area by analysis of fluoride distribution in dentine. *Environmental Pollution* **211**, 74-80.
- Kierdorf, H.; Filevych, O.; Lutz, W.; Kierdorf, U. (2016) Dental defects as a potential indicator of chronic malnutrition in a population of fallow deer (*Dama dama*) from northwestern Germany. *The Anatomical Record* **299**, 1409-1423.
- Kierdorf, U.; Death, C.; Hufschmid, J.; Witzel, C.; Kierdorf, H. (2016) Developmental and post-eruptive defects in molar enamel of free-ranging eastern grey kangaroos (*Macropus giganteus*) exposed to high environmental levels of fluoride. *PLOS ONE* **11** (2): e0147427 (pp 1-27).
- Kierdorf, U.; Meng, S.; Kahlke, R.-D. (2016) Resorptive depressions on a horn core of Late Pleistocene (MIS 3) *Bison priscus* (Bovidae, Mammalia) from northeastern Germany. *International Journal of Paleopathology* **15**, 76-82.

2015

- Death, C.; Coulson, G.; Kierdorf, U.; Kierdorf, H.; Morris, W.; Hufschmid, J. (2015) Dental fluorosis and skeletal fluoride content as biomarkers of excess fluoride exposure in marsupials. *Science of the Total Environment* **533**, 528-541.
- Flache, L.; Czarnecki, S.; Düring, R.-A.; Kierdorf, U.; Encarnaçã, J.A. (2015) Trace metal concentrations in hairs of three bat species from an urbanized area in Germany. *Journal of Environmental Sciences* **31**, 184-193.
- Flache, L.; Becker, N. I.; Kierdorf, U.; Czarnecki, S.; Düring, R.-A.; Encarnaçã, J.A. (2015) Hair samples as monitoring units for assessing metal exposure of bats: a new tool for risk assessment. *Mammalian Biology* **80**, 178-181.
- Flohr, S.; Brinker, U.; Schramm, A.; Kierdorf, U.; Staude, A.; Piek, J.; Jantzen, D.; Hauenstein, K.; Orschiedt, J. (2015) Flint arrowhead embedded in a human humerus from the Bronze Age site in the Tollense Valley, Germany – a high-resolution micro-CT study to distinguish antemortem from perimortem projectile trauma to bone. *International Journal of Paleopathology* **9**, 76-81.
- Kahlke, R.-D.; Fritz, U.; Kierdorf, U. (2015) Badger (*Meles meles*) predation on European pond turtle (*Emys orbicularis*) during the Eemian interglacial (MIS 5e). *Palaeobiodiversity and Palaeoenvironments* **95**, 223-235.
- Kierdorf, H.; Witzel, C.; Kierdorf, U.; Skinner M.M.; Skinner, M.F. (2015) 'Missing perikymata' – fact or fiction? A study on chimpanzee (*Pan troglodytes verus*) canines. *American Journal of Physical Anthropology* **157**, 276-283.
- Kierdorf, U.; Bridault, A.; Witzel, C.; Kierdorf, H. (2015) Cementoblastoma in a red deer (*Cervus elaphus*) from the Late Pleistocene of Rochedane, France. *International Journal of Paleopathology* **8**, 42-47.

2014

- Flohr, S.; Brinker, U.; Spanagel, E.; Schramm, A.; Orschiedt, J.; Kierdorf, U. (2014) Killed in action? A biometrical analysis of femora of supposed battle victims from the Middle Bronze Age site of Weltzin 20, Germany. In: Martin, D.L.; Anderson, C.P. (eds.) *Bioarchaeological and forensic perspectives on violence: how violent death is interpreted from skeletal remains*. Cambridge University Press, New York, pp. 17-33.

- Flohr, S.; Kierdorf, U.; Jankauskas, R.; Püschel, B.; Schultz, M. (2014) Diagnosis of stapedial footplate fixation in archaeological human remains. *International Journal of Paleopathology* **6**, 10-19.
- Kierdorf, H.; Breuer, F.; Richards, A.; Kierdorf, U. (2014) Characterization of enamel incremental markings and crown growth parameters in minipig molars. *The Anatomical Record* **297**, 1935-1949.
- Kierdorf, U.; Kierdorf, H. (2014) In memoriam: Hermann Hartwig, 1910–2012. *European Journal of Wildlife Research* **60**, 159-160.
- Kierdorf, U.; Stoffels, D.; Kierdorf, H. (2014) Element concentrations and element ratios in antler and pedicle bone of yearling red deer (*Cervus elaphus*) stags – a quantitative X-ray fluorescence study. *Biological Trace Element Research* **162**, 124-133.

2013

- Gomez, S.; Garcia, A.J.; Luna, S.; Kierdorf, U.; Kierdorf, H.; Gallego, L.; Landete-Castillejos, T. (2013) Labeling studies on cortical bone formation in the antlers of red deer (*Cervus elaphus*). *Bone* **52**, 506-515.
- Kierdorf, H.; Kierdorf, U.; Frölich, K.; Witzel, C. (2013) Lines of evidence – the nature of incremental markings in molar enamel of Soay sheep as revealed by a fluorochrome labeling and backscattered electron imaging study. *PLOS ONE* **8(9)**: e74597 (pp.1-14).
- Kierdorf, U.; Flohr, S.; Gomez, S.; Landete-Castillejos, T.; Kierdorf, H. (2013) The structure of pedicle and hard antler bone in the European roe deer (*Capreolus capreolus*): a light microscope and backscattered electron imaging study. *Journal of Anatomy* **223**, 364-384.
- Kierdorf, U.; Kierdorf, H.; Konjević, D. (2013) Pathological fracture of a red deer antler secondary to purulent inflammation – a case report. *Veterinarski Arhiv* **83**, 347-356.

2012

- Kierdorf, H.; Hommelsheim, S.; Kierdorf, U. (2012) Development of the permanent mandibular cheek teeth in fallow deer (*Dama dama*). *Anatomia Histologia Embryologia* **41**, 419-427.
- Kierdorf, H.; Witzel, C.; Upex, B.; Dobney, K.; Kierdorf, U. (2012) Enamel hypoplasia in molars of sheep and goats, and its relationship to the pattern of tooth crown growth. *Journal of Anatomy* **220**, 484-495.
- Kierdorf, U.; Bahelková, P.; Sedláček, F.; Kierdorf, H. (2012) Pronounced reduction of fluoride exposure in free-ranging deer in North Bohemia (Czech Republic) as indicated by the biomarkers skeletal fluoride content and dental fluorosis. *Science of the Total Environment* **414**, 686-695.
- Kierdorf, U.; Kahlke, R.-D.; Flohr, S. (2012) Healed fracture of the tibia in a bison (*Bison menneri* Sher, 1997) from the late Early Pleistocene site of Untermassfeld (Thuringia, Germany). *International Journal of Paleopathology* **2**, 19-24.
- Kierdorf, U.; Kierdorf, H. (2012) Antler regrowth as a form of epimorphic regeneration in vertebrates – a comparative view. *Frontiers in Bioscience* **E4**, 1606-1624.

2011

- Flohr, S.; Kierdorf, U. (2011) Morphometrische Analyse menschlicher Gehörknöchelchen – Interobserver-Fehler und biologische Variabilität. *Beiträge zur Archäozoologie und Prähistorischen Anthropologie VIII*, pp. 187-200.
- Kierdorf, U. (2011) How many mandibles in a mammal? A note on terminology. *Anatomia Histologia Embryologia* **40**, 107-111.
- Kierdorf, U.; Kierdorf, H. (2011) Deer antlers – A model of mammalian appendage regeneration: an extensive review. *Gerontology* **57**, 53-65.
- Richter, H.; Kierdorf, U.; Richards, A.; Melcher, F.; Kierdorf, H. (2011) Fluoride concentration in dentine as a biomarker of fluoride intake in European roe deer (*Capreolus capreolus*) – an electron-microprobe study. *Archives of Oral Biology* **56**, 785-792.

2010

- Flohr, S.; Leckelt, J.; Kierdorf, U.; Kierdorf, H. (2010) How reproducibly can human ear ossicles be measured? A study of interobserver error. *The Anatomical Record* **293**, 2094-2106.
- Richter, H.; Kierdorf, U.; Richards, A.; Kierdorf, H. (2010) Dentin abnormalities in cheek teeth of wild red deer and roe deer from a fluoride-polluted area in Central Europe. *Annals of Anatomy* **192**, 86-95.
- Richter, H.; Kierdorf, H.; Kierdorf, U.; Clemen, G.; Greven, H. (2010) A microscopic and microanalytical study (Fe, Ca) of the teeth of the larval and juvenile axolotl (*Ambystoma mexicanum*, Urodela). *Vertebrate Zoology* **60**, 27-35.

2009

- Flohr, S.; Kierdorf, U.; Schultz, M. (2009) Differential diagnosis of mastoid hypocellularity in human skeletal remains. *American Journal of Physical Anthropology* **140**, 442-453.
- Flohr, S.; Kierdorf, U.; Schultz, M. (2009) Differenzialdiagnose an hypozellulären menschlichen Warzenfortsätzen – ein Beitrag zur Paläopathologie. *Beiträge zur Archäozoologie und Prähistorischen Anthropologie VII*, pp. 113-122.
- Greve, W.; Kierdorf, H.; Kierdorf, U. (2009) The Akela-effect – Is there an evolutionary benefit from senators in mammals? *Bioscience Hypotheses* **2**, 213-216.
- Kierdorf, H.; Kierdorf, U., Witzel, C.; Intoh, M.; Dobney, K. (2009) Developmental defects and postmortem changes in archaeological pig teeth from Fais Island, Micronesia. *Journal of Archaeological Science* **36**, 1637-1646.
- Kierdorf, U.; Li, C.; Price, J.S. (2009) Improbable appendages: deer antler renewal as a unique case of mammalian regeneration. *Seminars in Cell and Developmental Biology* **20**, 535-542.
- Konjević, D.; Kierdorf, U.; Njemirovskij, V.; Janicki, Z.; Slavica, A.; Severin, K. (2009) Patologija kljova vepra: pregled dosadasnjih spoznaja I modela reparacije (Wild boar tusk pathology: an overview of the current knowledge and models of reparation). *Sumarski List* **133**, 319-326.
- Lazar, P.; Konjević, D.; Kierdorf, U.; Njemirovskij, V.; Čurlik, J.; Grubešić, M. (2009) Traumatic injury to the incisive bones and maxillary dentition in a male gray wolf (*Canis lupus L.*) from Slovakia. *European Journal of Wildlife Research* **55**, 85-89.

- Pokorny, B.; Jelenko, I.; Kierdorf, U.; Kierdorf, H. (2009) Roe deer antlers as historical bioindicators of lead pollution in the vicinity of a lead smelter, Slovenia. *Water, Air, and Soil Pollution* **203**, 317-324.

2008

- Kierdorf, H.; Åberg, G.; Kierdorf, U. (2008) Lead concentrations and lead and strontium stable-isotope ratios in teeth of European roe deer (*Capreolus capreolus*). *European Journal of Wildlife Research* **54**, 313-319.
- Konjević, D.; Kierdorf, U.; Janicki, Z.; Slavica, A.; Severin, K. (2008) Jelen fratar – jedinstvena pojava u jelena običnoga (Red deer hummel – a unique feature in a red deer stag). *Sumarski List* **132**, 171-175.
- Rolf, H.J.; Kierdorf, U.; Kierdorf, H.; Schulz, J.; Seymour, N.; Schliephake, H.; Napp, J.; Niebert, S.; Wölfel, H.; Wiese, K.G. (2008) Localization and characterization of Stro-1⁺ cells in the deer pedicle and regenerating antler. *PLOS ONE* **3(4)**: e2064 (pp. 1-11).
- Witzel, C.; Kierdorf, U.; Schultz, M.; Kierdorf, H. (2008) Insights from the inside: histological analysis of abnormal enamel microstructure associated with hypoplastic enamel defects in human teeth. *American Journal of Physical Anthropology* **136**, 400-414.

2007

- Encarnaçãõ, J.A.; Kierdorf, U.; Wolters, V. (2007) Do mating roosts of Daubenton's bats (*Myotis daubentonii*) exist at summer sites? *Myotis* **43**, 31-39.
- Kierdorf, H.; Kierdorf, U. (2007) The histopathology of fluorotic dental enamel of wild boar and domestic pigs. In: Albarella, U.; Dobney, K.; Eryvnyck, A., Rowley-Conwy, P. (eds.) Pigs and humans: 10,000 years of interaction, Oxford University Press, Oxford, 255-268.
- Kierdorf, U.; Kahlke, R.-D.; Egerer, U. (2007) Obere Eckzähne des Europäischen Rehs *Capreolus capreolus* L. (Cervidae, Mammalia) aus ontogenetischer und phylogenetischer Sicht. Terra praehistorica, Festschrift für Klaus-Dieter Jäger zum 70. Geburtstag. *Beiträge zur Ur- und Frühgeschichte Mitteleuropas* **48**, pp. 111-115.
- Kierdorf, U.; Kierdorf, H.; Szuwart, T. (2007) Deer antler regeneration: cells, concepts, and controversies. *Journal of Morphology* **268**, 726-738.

2006

- Encarnaçãõ, J.; Kierdorf, U.; Ekschmitt, K.; Wolters, V. (2006) Physical and reproductive maturation in male Daubenton's bats (*Myotis daubentonii*). *Journal of Mammalogy* **87**, 93-96.
- Encarnaçãõ, J.A.; Kierdorf, U.; Wolters, V. (2006) Seasonal variation in nocturnal activity of male Daubenton's bats, *Myotis daubentonii* (Chiroptera: Vespertilionidae). *Folia Zoologica* **55**, 237-246
- Encarnaçãõ, J.A.; Kierdorf, U.; Wolters, V. (2006) Effects on season and age on body mass and reproductive condition in male Daubenton's bats (*Myotis daubentonii*). *Veterinarski Arhiv* **76 (Suppl.)**, S239-S249.
- Kierdorf, H.; Zeiler, J.; Kierdorf, U. (2006) Problems and pitfalls in the diagnosis of linear enamel hypoplasia in cheek teeth of cattle. *Journal of Archaeological Science* **33**, 1690-1695.

- Kierdorf, U.; Kierdorf, H (2006) Roe and red deer antlers as bioindicators of pollution of deer habitats by lead and fluoride. *Veterinarski Arhiv* **76 (Suppl.)**, S117-S129.
- Kierdorf, U.; Kierdorf, H; Konjević, D.; Lazar, P. (2006) Remarks on cranial lesions in the European polecat (*Mustela putorius*) caused by helminth parasites. *Veterinarski Arhiv* **76 (Suppl.)**, S101-S109.
- Konjević, D.; Kierdorf, U.; Manojlović, L.; Severin, K.; Janicki, Z.; Slavica, A.; Reindl, B.; Pivac, I. (2006) The spectrum of tusk pathology in wild boar (*Sus scrofa* L.) from Croatia. *Veterinarski Arhiv* **76 (Suppl.)**, S91-S100.
- Witzel, C.; Kierdorf, U.; Dobney, K.; Eryvnc, A.; Van Poucke, S.; Kierdorf, H. (2006) Reconstructing impairment of secretory ameloblast function in porcine teeth by analysis of morphological alterations in dental enamel. *Journal of Anatomy* **209**, 93-110.
- Zemek, F.; Herman, M.; Kierdorf, H.; Kierdorf, U.; Sedlacek, F. (2006) Spatial distribution of dental fluorosis in roe deer (*Capreolus capreolus*) from North Bohemia (Czech Republic) and its relationships with environmental factors. *Science of the Total Environment* **370**, 491-505.

2005

- Encarnação, J.; Dietz, M.; Holweg, D.; Jasnoch, U.; Kierdorf, U.; Wolters, V. (2005) Quartierwahl von Wasserfledermäusen (*Myotis daubentonii*) im Sommerlebensraum: Erste Ergebnisse einer GIS-basierten Analyse. *Nyctalus (NF)* **10**, 49-60.
- Encarnação, J.A.; Kierdorf, U., Holweg, D.; Jasnoch, U.; Wolters, V. (2005) Sex-related differences in roost-site selection by Daubenton's bats (*Myotis daubentonii*) during the nursery period. *Mammal Review* **35**, 285-294.
- Kahlke, R.-D.; Kierdorf, U. (2005) Diabetes im Fossilbefund? *Natur und Museum* **135**, 280-281.
- Kierdorf, H.; Kierdorf, U.; Witzel, C. (2005) Deposition of cellular cementum onto hypoplastic enamel of fluorotic teeth in wild boars (*Sus scrofa* L.). *Anatomy and Embryology* **209**, 281-286.
- Kierdorf, U.; Kierdorf, H. (2005) Antlers as biomonitors of environmental pollution by lead and fluoride: A review. *European Journal of Wildlife Research* **51**, 137-150.

2004

- Encarnação, J.; Dietz, M.; Kierdorf, U. (2004) Reproductive condition and activity pattern of male Daubenton's bats (*Myotis daubentonii*) in the summer habitat. *Mammalian Biology* **69**, 163-172.
- Encarnação, J.; Dietz, M.; Kierdorf, U., Wolters, V. (2004) Body mass changes of male Daubenton's bats (*Myotis daubentonii*) during the seasonal activity period. *Mammalia* **68**, 291-297.
- Kierdorf, H.; Kierdorf, U. (2004) The use of antlers to monitor temporal variation in environmental lead levels: a case study from an industrialized area in Germany. *European Journal of Wildlife Research* **50**, 62-66.
- Kierdorf, H.; Kierdorf, U.; Richards, A.; Josephsen, K. (2004) Fluoride-induced alterations of enamel structure: an experimental study in the miniature pig. *Anatomy and Embryology* **207**, 463-474.

- Kierdorf, U.; Kahlke, R.-D. (2004). Pathological findings on remains of *Hippopotamus amphibius antiquus* Desmarest, 1822 (Hippopotamidae, Mammalia) from the late Lower Pleistocene site of Untermaßfeld. In: Maul, L.C.; Kahlke, R.-D. (eds.) Late Neogene and Quaternary biodiversity and evolution: Regional developments and interregional correlations. *Terra Nostra* **2004/2**, pp.137-138.
- Kierdorf, U.; Kierdorf, H. (2004) Bone formation in antlers. In: Suttie, J.M.; Haines, S.R., Li, C. (eds.) Advances in antler science and product technology, Proceedings 2nd ASPT-Symposium, Queenstown, New Zealand, pp. 55-63.
- Kierdorf, U.; Kierdorf, H., Schultz, M., Rolf-H.J. (2004) Histological structure of antlers in castrated male fallow deer (*Dama dama*). *The Anatomical Record* **281A**, 1352-1362.
- Kierdorf, U.; Konjević, D.; Janicki, Z.; Slavica, A., Keros, T.; Čurlik, J. (2004) Tusk abnormalities in wild boar (*Sus scrofa* L.). *European Journal of Wildlife Research* **50**, 48-52.
- Kierdorf, U.; Konjević, D.; Lazar, P.; Šehić, M.; Grubešić, M. (2004) Malposition and loss of the left mandibular permanent canine in a male wild boar (*Sus scrofa* L.). *European Journal of Wildlife Research* **50**, 213-215.
- Kierdorf, U.; Lutz, W.; Kierdorf, H (2004) Pedicle and antler fusion and double-head formation in a sika stag (*Cervus nippon*). *European Journal of Wildlife Research* **50**, 121-126.
- Konjević, D.; Kierdorf, U.; Verstraete, F.J.M.; Janicki, Z.; Slavica, A.; Keros, T.; Severin, K. (2004) Malformation of the permanent maxillary canine after dental infraction in a wild boar (*Sus scrofa* L.). *Journal of Zoo and Wildlife Medicine* **35**, 403-405.

2003

- Encarnação, J.; Dietz, M.; Kierdorf, U., Wolters, V. (2003) Zur Entwicklung der Körpermasse männlicher Wasserfledermäuse (*Myotis daubentonii*) im Sommerlebensraum - Erste Ergebnisse einer Langzeitstudie. *Säugetierkundliche Informationen* **5**, 299-304.
- Kierdorf, H.; Kierdorf, U. (2003) Abnormal lower tusks in a male wild boar (*Sus scrofa* L.). *European Journal of Wildlife Research* **49**, 150-155.
- Kierdorf, U.; Kierdorf, H. (2003) Temporal variation of fluoride concentration in antlers of roe deer (*Capreolus capreolus*) living in an area exposed to emissions from iron and steel industry, 1948-2000. *Chemosphere* **52**, 1677-1681.
- Kierdorf, U.; Stoffels, E.; Stoffels, D.; Kierdorf, H.; Szuwart, T.; Clemen, G. (2003) Histological studies of bone formation during pedicle restoration and early antler regeneration in roe deer and fallow deer. *The Anatomical Record* **273A**, 741-751.

2002

- Encarnação, J.; Dietz, M.; Kierdorf, U. (2002) Zur Mobilität männlicher Wasserfledermäuse (*Myotis daubentonii* Kuhl 1819) im Sommer. *Myotis* **40**, 19-31.
- Kierdorf, H.; Kierdorf, U. (2002) Reconstruction of a decline of ambient lead levels in the Ruhr area (Germany) by studying lead concentrations in antlers of roe deer (*Capreolus capreolus*). *Science of the Total Environment* **296**, 153-158.
- Kierdorf, U., Kierdorf, H. (2002) Pedicle and first antler development in deer: anatomical, histological and developmental aspects. *European Journal of Wildlife Research* **48**, 22-34.

- Kierdorf, U., Kierdorf, H. (2002) Assessing regional variation of environmental fluoride concentrations in western Germany by analysis of antler fluoride content in roe deer (*Capreolus capreolus*). *Archives of Environmental Contamination and Toxicology* **42**, 99-104.
- Kierdorf, U.; Kierdorf, H. (2002) Supernumerary incisiform tooth in a red deer (*Cervus elaphus* L.). *European Journal of Wildlife Research* **48**, 276-280.
- Szuwart, T., Kierdorf, H., Kierdorf, U., Clemen, G. (2002) Histochemical and ultrastructural studies on osteoclastic cells during antler formation in fallow deer (*Dama dama*). *The Anatomical Record* **268**, 66-72.

2001

- Bartoš, L.; Kierdorf, U.; Siler, J.; Bubenik, G.A. (2001) Spontaneous mineralization, partial velvet shedding and antler sequestration in castrated fallow deer bucks (*Dama dama*). In: Sim, J. S.; Sunwoo, H. H.; Hudson, R. J.; Jeon, B. T. (eds.) Antler science and product technology. ASPTRC, Edmonton, pp. 87-95.
- Kierdorf, H.; Kierdorf, U. (2001) The role of the antlerogenic periosteum for pedicle and antler formation in deer. In: Sim, J. S.; Sunwoo, H. H.; Hudson, R. J.; Jeon, B. T. (eds.) Antler science and product technology. ASPTRC, Edmonton, pp. 33-51.
- Kierdorf, H.; Kierdorf, U. (2001) Rekonstruktion zeitlicher Trends der Umweltbelastung mit Fluor und Blei im Raum Iserlohn/Hemer (Märkischer Kreis, Deutschland) anhand der Analyse von Rehgeweihen. *Zeitschrift für Jagdwissenschaft* **47**, 201-210.
- Kierdorf, U. (2001) Extreme premolar rotation in red deer (*Cervus elaphus* L.) and roe deer (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **47**, 232-237.
- Kierdorf, U., Kierdorf, H. (2001) Fluoride concentrations in antler bone of roe deer (*Capreolus capreolus*) indicate decreasing fluoride pollution in an industrialized area of western Germany. *Environmental Toxicology and Chemistry* **20**, 1507-1510.
- Kierdorf, U.; Kierdorf, H.; Lutz, W. (2001) Rekonstruktion der Umweltgeschichte. Fluorid- und Bleigehalt in Geweihen von Reh und Rothirsch. LÖBF-Jahresbericht 2000, pp. 69-76.
- Kierdorf, U.; Kierdorf, H.; Wolters, V. (2001) Wirkungen auf Wildtiere. In: Guderian, R. (Hrsg.) Handbuch der Umweltveränderungen und Ökotoxikologie, Bd. 2B, Terrestrische Ökosysteme, 4. Schadstoffwirkungen auf Tiere. Springer-Verlag, Berlin, pp. 458-480.
- Kierdorf, U.; Kierdorf, H. (2001) Unilateral antler growth in a red deer stag (*Cervus elaphus*). *Zeitschrift für Jagdwissenschaft* **47**, 275-279.
- Sedlacek, F.; Zemek, F.; Herman, M.; Kierdorf, H.; Kierdorf, U. (2001) Fluoride load on ecosystems in western part of Krusne Hory mts. determined by bioindication. *Ekologia (Bratisl.)* **20**, 70-79.

2000

- Appleton, J.; Chesters, J.; Kierdorf, U.; Kierdorf, H. (2000) Changes in the structure of dentine from cheek teeth of deer chronically exposed to high levels of environmental fluoride. *Cells Tissues Organs* **167**, 266-272.
- Bartoš, L.; Schams, D.; Kierdorf, U.; Bubenik, G.; Fischer, K.; Siler, J.; Losos, M. (2000) Cyproterone acetate reduced antler growth in surgically castrated fallow deer (*Dama dama*). *Journal of Endocrinology* **164**, 87-95.

- Kierdorf, H.; Kierdorf, U. (2000) Roe deer antlers as monitoring units for assessing temporal changes in environmental pollution by fluoride and lead in a German forest area over a 67-year period. *Archives of Environmental Contamination and Toxicology* **39**, 1-6.
- Kierdorf, H.; Kierdorf, U.; Richards, A.; Sedlacek, F. (2000) Disturbed enamel formation in wild boars (*Sus scrofa* L.) from fluoride polluted areas in Central Europe. *The Anatomical Record* **259**, 12-24.
- Kierdorf, H.; Kierdorf, U. (2000) Vergleichende Untersuchungen zum Bleigehalt von Rehweweißen aus verschiedenen Regionen Nordrhein-Westfalens (Deutschland) im Zeitraum 1990 - 1999. *Zeitschrift für Jagdwissenschaft* **46**, 270-278.
- Kierdorf, U. (2000) Interfrontalknochen bei einem Rothirsch (*Cervus elaphus* L.). *Zeitschrift für Jagdwissenschaft* **46**, 114-116.
- Kierdorf, U., Kierdorf, H. (2000) Delayed ectopic antler growth and formation of a double-head antler in the metacarpal region of a fallow buck (*Dama dama* L.) following transplantation of antlerogenic periosteum. *Annals of Anatomy* **182**, 365-370.
- Kierdorf, U.; Kierdorf, H. (2000) The fluoride content of antlers as an indicator of fluoride exposure in red deer (*Cervus elaphus*): a historical biomonitoring study. *Archives of Environmental Contamination and Toxicology* **38**, 121-127.
- Kierdorf, U.; Kierdorf, H. (2000) Comparative analysis of dental fluorosis in roe deer (*Capreolus capreolus*) and red deer (*Cervus elaphus*): Interdental variation and species differences. *Journal of Zoology* **250**, 87-93.
- Kierdorf, U.; Kierdorf, H. (2000) Temporal and geographical variation in skeletal fluoride content of roe deer (*Capreolus capreolus*) from industrialized areas in Germany. *Comparative Biochemistry and Physiology C* **126**, 61-68.
- Kierdorf, U.; Kierdorf, H.; Boyde, A. (2000) Structure and mineralisation density of antler and pedicle bone in red deer (*Cervus elaphus* L.) exposed to different levels of environmental fluoride: a quantitative backscattered electron imaging study. *Journal of Anatomy* **196**, 71-83.

1999

- Kierdorf, H. Kierdorf, U. (1999) Reduction of fluoride deposition in the vicinity of a brown coal-fired power plant as indicated by bone fluoride concentrations of roe deer (*Capreolus capreolus*). *Bulletin of Environmental Contamination and Toxicology* **63**, 473-477.
- Kierdorf, H.; Kierdorf, U. (1999) Bleigehalte in Rothirschgeweißen aus Nordrhein-Westfalen: Ein Beitrag zum historischen Biomonitoring. *Zeitschrift für Jagdwissenschaft* **45**, 96-106.
- Kierdorf, H.; Kierdorf, U.; Sedlacek, F. (1999) Monitoring regional fluoride pollution in the Saxonian Ore mountains (Germany) using the biomarker dental fluorosis in roe deer (*Capreolus capreolus* L.). *Science of the Total Environment* **232**, 159-168.
- Kierdorf, U.; Bartoš L. (1999) Treatment of the growing pedicle with retinoic acid increased the size of first antlers in fallow deer (*Dama dama*). *Comparative Biochemistry and Physiology C* **124**, 7-9.
- Kierdorf, U.; Kierdorf, H. (1999) Dental fluorosis in wild deer: its use as a biomarker of increased fluoride exposure. *Environmental Monitoring and Assessment* **57**, 265-275.

1998

- Kierdorf, H.; Kierdorf, U. (1998) Wiederholte zweimalige Geweihbildung innerhalb eines Jahres bei einem freilebenden Rothirsch (*Cervus elaphus* L.). *Zeitschrift für Jagdwissenschaft* **44**, 178-183
- Kierdorf, U.; Kahlke, R.-D. (1998) Osteochondrosis intervertebralis und Spondylosis deformans bei einem Braunbären (*Ursus arctos*) aus dem Pleistozän von Weimar-Taubach (Thüringen, Deutschland). *Beiträge zur Geologie von Thüringen* **NF 5**, 101-113.
- Kierdorf, U.; Kierdorf, H. (1998) Effects of retinoic acid on pedicle and first antler growth in a fallow buck (*Dama dama* L.). *Annals of Anatomy* **180**, 373-375.
- Kierdorf, U.; Kierdorf, H. (1998) Studies on the parietal region of the cervid skull III. On the occurrence of an interparietal in *Cervus*. *Anatomia Histologia Embryologia* **27**, 193-196.
- Schultz, M.; Carli-Thiele, P.; Schmidt-Schultz, T.H.; Kierdorf, U.; Kierdorf, H.; Teegen, W.-R., Kreutz, K. (1998) Enamel hypoplasias in archaeological skeletal remains. In: Alt, K.W.; Rösing, F.W.; Teschler-Nicola, M. (eds.) Dental anthropology. Fundamentals, limits and prospects, pp. 293-311. Springer-Verlag, Wien, New York.
- Schultz, M.; Kierdorf, U.; Sedlacek, F.; Kierdorf, H. (1998) Pathological bone changes in the mandibles of wild red deer (*Cervus elaphus* L.) exposed to high environmental levels of fluoride. *Journal of Anatomy* **193**, 431-442.
- Szuwart T.; Kierdorf, H.; Kierdorf, U.; Clemen, G. (1998) Ultrastructural aspects of cartilage formation, mineralization, and degeneration during primary antler growth in fallow deer (*Dama dama*). *Annals of Anatomy* **180**, 501-510.

1997

- Kahlke, R.-D.; Kierdorf, U. (1997) Diffuse idiopathische skelettale Hyperostose bei einem Bären (*Ursus* sp.) aus dem Unterpleistozän von Untermaßfeld bei Meiningen (Südthüringen, Deutschland). *Quartär* **47/48**, 159-175.
- Kierdorf, H.; Kierdorf, U. (1997) Disturbances of the secretory stage of amelogenesis in fluorosed deer teeth: a scanning electron-microscopic study. *Cell and Tissue Research* **289**, 125-135.
- Kierdorf, H.; Kierdorf, U. (1997) Beidseitig ausgebildete mandibulare Distomolaren bei einem Rothirsch (*Cervus elaphus* L.). *Zeitschrift für Jagdwissenschaft* **43**, 207-210.
- Kierdorf, H.; Kierdorf, U.; Boyde, A. (1997) A quantitative backscattered electron imaging study of hypomineralization and hypoplasia in fluorosed dental enamel of deer. *Annals of Anatomy* **179**, 405-412.
- Kierdorf, U.; Becher, J. (1997) Mineralization and wear of mandibular first molars in red deer (*Cervus elaphus*) of known age. *Journal of Zoology* **241**, 135-143.
- Kierdorf, U.; Richards, A.; Sedlacek, F.; Kierdorf, H. (1997) Fluoride content and mineralization of red deer (*Cervus elaphus*) antlers and pedicles from fluoride polluted and uncontaminated regions. *Archives of Environmental Contamination and Toxicology* **32**, 222-227.

1996

- Kierdorf, H.; Kierdorf, U.; Sedlacek, F. (1996) Biomonitoring der Fluoridbelastung des Lebensraumes von Wildwiederkäuern aus Immissionsgebieten Nordböhmens (Tschechische Republik). *Zeitschrift für Jagdwissenschaft* **42**, 41-52.

- Kierdorf, H.; Kierdorf, U.; Sedlacek, F.; Erdelen, M. (1996) Mandibular bone fluoride levels and occurrence of fluoride induced dental lesions in populations of wild red deer (*Cervus elaphus*) from Central Europe. *Environmental Pollution* **93**, 75-81.
- Kierdorf, U. (1996) Verheilte Baculum-Fraktur bei einem Iltis (*Mustela putorius* L.). *Zeitschrift für Jagdwissenschaft* **42**, 308-310.
- Kierdorf, U.; Kierdorf, H.; Sedlacek, F.; Fejerskov, O. (1996) Structural changes in fluorosed dental enamel of red deer (*Cervus elaphus* L.) from a region with severe environmental pollution by fluorides. *Journal of Anatomy* **188**, 183-195.

1995

- Kierdorf, H.; Kierdorf, U. (1995) Rotation des P₂ um 180° bei einem Rothirsch (*Cervus elaphus* L.). *Zeitschrift für Jagdwissenschaft* **41**, 69-71.
- Kierdorf, H.; Kierdorf, U.; Szuwart, T.; Clemen, G. (1995) A light microscopic study of primary antler development in fallow deer (*Dama dama*). *Annals of Anatomy* **177**, 525-532.
- Kierdorf, U.; Kierdorf, H.; Düwel, F.W. (1995) Persistenz von Suturen im Parietalbereich des Cervidenschädels. *Zeitschrift für Jagdwissenschaft* **41**, 232-235.
- Kierdorf, U.; Kierdorf, H.; Erdelen, M.; Machoy, Z. (1995) Mandibular bone fluoride accumulation in wild red deer (*Cervus elaphus* L.) of known age. *Comparative Biochemistry and Physiology* **110A**, 299-302.
- Kierdorf, U.; Kierdorf, H.; Knuth, S. (1995) Effects of castration on antler growth in fallow deer (*Dama dama* L.). *Journal of Experimental Zoology* **273**, 33-43.
- Szuwart, T.; Kierdorf, H.; Kierdorf, U.; Althoff, J.; Clemen, G. (1995) Tissue differentiation and correlated changes in enzymatic activities during primary antler development in fallow deer (*Dama dama*). *The Anatomical Record* **243**, 413-420.

1994

- Kierdorf, H.; Kierdorf, U.; Szuwart, T.; Gath, U., Clemen, G. (1994) Light microscopic observations on the ossification process in the early developing pedicle of fallow deer (*Dama dama*). *Annals of Anatomy* **176**, 243-249.
- Kierdorf, U. (1994) A further example of long bone damage due to chewing by deer. *International Journal of Osteoarchaeology* **4**, 209-213.
- Kierdorf, U.; Kierdorf, H. (1994) Geweihasymmetrie bei einem Rothirsch-Jährling (*Cervus elaphus* L.) mit einseitiger Doppelkopfbildung. *Zeitschrift für Jagdwissenschaft* **40**, 62-66.
- Kierdorf, U.; Kierdorf, H.; Schultz, M. (1994) The macroscopic and microscopic structure of double-head antlers and pedicle bone in Cervidae (Mammalia, Artiodactyla). *Annals of Anatomy* **176**, 251-257.
- Kierdorf, H.; Kierdorf, U.; Sedlacek, F. (1994) Severe chronic fluoride intoxication in free ranging red deer (*Cervus elaphus*) from NW-Bohemia (Czech Republic). *Proceedings VI. Fluoride Symposium "Biological risk caused by fluorine compounds"*, Szczecin, pp.16-18.
- Kierdorf, U.; Schultz, M.; Kierdorf, H. (1994) Licht- und rasterelektronenmikroskopische Untersuchungen an Schmelzhypoplasien fluorotischer Rehzähne. *Zeitschrift für Jagdwissenschaft* **40**, 175-184.

1993

- Kierdorf, H.; Kierdorf, U. (1993) Symmetrisches Auftreten eines überzähligen Prämolaren im Unterkiefer eines Rehbockes (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **39**, 60-64.
- Kierdorf, H.; Kierdorf, U. (1993) Symmetrisch ausgebildete Prämolarenüberzahl im Unterkiefer eines Rothirsches (*Cervus elaphus* L.). *Zeitschrift für Jagdwissenschaft* **39**, 270-272.
- Kierdorf, U. (1993) Fork formation and other signs of osteophagia on a long bone swallowed by a red deer stag (*Cervus elaphus*). *International Journal of Osteoarchaeology* **3**, 37-40.
- Kierdorf, U.; Kierdorf, H.; Fejerskov, O. (1993) Fluoride induced developmental changes in enamel and dentine of European roe deer (*Capreolus capreolus* L.) as a result of environmental pollution. *Archives of Oral Biology* **38**, 1071-1081.
- Kierdorf, U.; Schultz, M.; Fischer, K. (1993) Effects of an antiandrogen treatment on the antler cycle of male fallow deer (*Dama dama* L.). *Journal of Experimental Zoology* **266**, 195-205.
- Kolle, R.; Kierdorf, U.; Fischer, K. (1993) Effects of an antiandrogen treatment on morphological characters and physiological functions of male fallow deer (*Dama dama* L.). *Journal of Experimental Zoology* **267**, 288-298.

1992

- Kierdorf, H.; Kierdorf, U. (1992) A scanning electron microscopic study of peritubular dentine in cheek teeth of Cervidae and Suidae (Mammalia, Artiodactyla). *Anatomy and Embryology* **186**, 319-326.
- Kierdorf, H.; Kierdorf, U. (1992) Occurrence of a postpermanent mandibular fourth premolar in a moose bull (*Alces alces*). *Archives of Oral Biology* **37**, 1091-1095.
- Kierdorf, H.; Kierdorf, U. (1992) State of determination of the antlerogenic tissues with special reference to double-head formation. In: Brown, R.D. (ed.) *The biology of deer*. pp. 525-531. Springer-Verlag, New York.
- Kierdorf, H.; Kierdorf, U. (1992) Zur Frage der Kronenzementbildung an den Backenzähnen des Rehes (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **38**, 160-164.
- Kierdorf, U. (1992) Über das Auftreten eines *Os interfrontoparietale* bei zwei Rehen (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **38**, 60-62.
- Kierdorf, U.; Kierdorf, H. (1992) Studies on the parietal region of the cervid skull. I. Remarks on the *os interparietale* in the skull of the roe deer (*Capreolus capreolus* L.). *Anatomia Histologia Embryologia* **21**, 112-117.
- Kierdorf, U.; Kierdorf, H. (1992) Studies on the parietal region of the cervid skull. II. The parietooccipital region in the skull of the fallow deer (*Dama dama* L.). *Anatomia Histologia Embryologia* **21**, 373-379.
- Kierdorf, U.; Kierdorf, H. (1992) Kombinierte Schmelz- und Dentinhypoplasie der ersten sowie kongenitale Agenesie der dritten Molaren im Unterkiefer eines Rehbockes (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **38**, 275-278.

- Kierdorf, U.; Kierdorf, H. (1992) Pathological tooth alterations in roe deer (*Capreolus capreolus* L.) caused by chronic fluoride intoxication. *Proceedings V. Fluoride Symposium "Biological risk caused by fluorine compounds"*, Szczecin, pp.13-15.
- Kierdorf, U.; Kierdorf, H. (1992) Der Doppelkopf, ein für das Verständnis der Folgegeweih-Bildung aufschlußreiches Naturexperiment. *Zeitschrift für Jagdwissenschaft* **38**, 244-251.

1991

- Kierdorf, H.; Kierdorf, U.; Hommelsheim, S. (1991) Scanning electron microscopic observations on the development and structure of tooth enamel in Cervidae (*Mammalia: Ruminantia*). *Anatomia Histologia Embryologia* **20**, 237-252.
- Kierdorf, U. (1991) A study of dental fluorosis in roe deer (*Capreolus capreolus* L.). In: Bobek, B.; Perzanowski, K.; Regelin, W.L. (eds.) *Global trends in wildlife management*, Vol. 1, pp. 385-388. Swiat-Press, Krakow, Warszawa.
- Kierdorf, U.; Kierdorf, H.; Krefting, E.R. (1991) Elektronenstrahl-Mikrosonden-Untersuchung des Fluorgehaltes und der Fluorverteilung in Schmelz und Dentin fluorotischer und nicht fluorotischer Backenzähne des Rehes (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **37**, 232-239.

1990

- Kierdorf, H.; Kierdorf, U. (1990) Erster Prämolare im Oberkiefer eines Rehbockes (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **36**, 60-62.
- Kierdorf, U.; Korsch, J.P. (1990) Partielle Synostose der Stirnbeine am Schädel eines Rehbockes (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **36**, 57-59.
- Kierdorf, U.; Kierdorf, H. (1990) Chronic fluoride toxicosis in game animals. *Transactions 19. Congress of the International Union of Game Biologists, Trondheim*, pp. 266-270.

1989

- Hartwig, H.; Kierdorf, H.; Kierdorf, U. (1989) Über eine besondere Form unechter Mehrstangenbildung beim Reh (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **35**, 184-191.
- Hartwig, H.; Schrudde, J.; Kierdorf, H.; Kierdorf, U. (1989) Durch unspezifische lokale Periostaktivierung provozierte Bildung eines knöchernen Stirnfortsatzes bei einem weiblichen Reh. (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **35**, 130-136.
- Kierdorf, H.; Kierdorf, U. (1989) Untersuchungen zur Entwicklungsgeschichte des Gebisses beim Europäischen Reh (*Capreolus c. capreolus* L., 1758). *Zoologische Jahrbücher, Abteilung Anatomie* **119**, 37-75.
- Kierdorf, U.; Kierdorf, H. (1989) Durch eine Zahnstellungsanomalie hervorgerufene Parodontitis apicalis im Unterkiefer eines Rehbockes (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **35**, 252-256.
- Kierdorf, U.; Kierdorf, H. (1989) A scanning electron microscopic study on surface lesions in fluorosed enamel of roe deer (*Capreolus capreolus* L.). *Veterinary Pathology* **26**, 209-215.

- Kierdorf, U.; Kierdorf, H.; Erdelen, M.; Korsch, J.P. (1989) Mandibular fluoride concentration and its relation to age in roe deer (*Capreolus capreolus* L.). *Comparative Biochemistry and Physiology* **94A**, 783-785.

1988

- Kierdorf, U. (1988) Untersuchungen zum Nachweis immissionsbedingter chronischer Fluoridintoxikation beim Reh (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **34**, 192-204.
- Kierdorf, U.; Kierdorf, H. (1988) Weitgehende Rotation des 4. Prämolaren im Unterkiefer eines Rothirsches (*Cervus elaphus* L.) und eines Rehbockes (*Capreolus capreolus* L.). *Zeitschrift für Säugetierkunde* **53**, 317-319.

1987

- Kierdorf, H.; Kierdorf, U. (1987) Einwurzeliger vierter Prämolare mit kegelförmiger Krone im Unterkiefer eines Rehbockes (*Capreolus capreolus* L.). *Zeitschrift für Jagdwissenschaft* **33**, 268-272.
- Kierdorf, H.; Kierdorf, U.; Bartsch, P.; Klewen, R.; Nether, S.; Schiburr, C.; Winter, H.G. (1987) Morphological studies in *Mertensiella luschani* (Steindachner 1891). *Proceedings 4th Ordinary General Meeting of the Societas Europaea Herpetologica, Nijmegen*, pp.223-230.
- Kierdorf, U.; Kierdorf, H. (1987) Enggestelltes Rehgehörn mit Stangenüberkreuzung. *Zeitschrift für Jagdwissenschaft* **33**, 208-210.

1986

- Kierdorf, H.; Kierdorf, U. (1986) Ossa interfrontalia bei einem Rehbock (*Capreolus capreolus* L.). *Zeitschrift für Säugetierkunde* **51**, 57-59.
- Kierdorf, U.; Kierdorf, H. (1986) Erste Untersuchungsergebnisse zum Auftreten von Dentalfluorose beim Rehwild (*Capreolus capreolus* L.) in Nordrhein-Westfalen. *Zeitschrift für Jagdwissenschaft* **32**, 55-56.

1985

- Kierdorf, H.; Kierdorf, U. (1985) Knochengeschwulst an Damhirschstange. *Zeitschrift für Jagdwissenschaft* **31**, 52-55.
- Kierdorf, U. (1985) Gehörnte Ricken. *WJSC-Blätter* **61**, 4-14.
- Kierdorf, U.; Kierdorf, H. (1985) Eine Rickenperücke von außergewöhnlicher Stärke. *Zeitschrift für Jagdwissenschaft* **31**, 242-246.