

Publications in peer-reviewed journals

2024

Rathmann H, Vizzari MT, Beier J, Bailey SE, Ghirotto S, Harvati K (2024). Human population dynamics in Upper Paleolithic Europe inferred from fossil dental phenotypes. *Science Advances* 10 (33): eadn8129. <https://doi.org/10.1126/sciadv.adn8129>

Gretzinger J, Schmitt F, Mötsch A, Carlhoff S, Lamnidis TC, Huang Y, Ringbauer H, Knipper C, Francken M, Mandt F, Hansen L, Freund C, Posth C, **Rathmann H**, Harvati K, Wieland G, Granehall L, Maixner F, Zink A, Schier W, Krausse D, Krause J, Schiffels S (2024). Evidence for dynastic succession among early Celtic elites in Central Europe. *Nature Human Behaviour* 8: 1467-1480. <https://doi.org/10.1038/s41562-024-01888-7>

2023

Rathmann H, Perretti S, Porcu V, Hanihara T, Scott GR, Irish JD, Reyes-Centeno H, Ghirotto S, Harvati K (2023). Inferring human neutral genetic variation from craniodental phenotypes. *PNAS Nexus* 2 (7): pgad217. <https://doi.org/10.1093/pnasnexus/pgad217>

Rathmann H, Lismann S, Francken M, Spatzier A (2023). Estimating inter-individual Mahalanobis distances from mixed incomplete high-dimensional data: Application to human skeletal remains from 3rd to 1st millennia BC Southwest Germany. *Journal of Archaeological Science* 156: 105802. <https://doi.org/10.1016/j.jas.2023.105802>

2022

Rathmann H, Stoyanov R, Posamentir R (2022). Comparing individuals buried in flexed and extended positions at the Greek colony of Chersonesos (Crimea) using cranial metric, dental metric, and dental nonmetric traits. *International Journal of Osteoarchaeology* 32 (1): 49-63. <https://doi.org/10.1002/oa.3043>

2020

Rathmann H, Reyes-Centeno H (2020). Testing the utility of dental morphological trait combinations for inferring human neutral genetic variation. *Proceedings of the National Academy of Sciences USA* 117 (20): 10769-10777. <https://doi.org/10.1073/pnas.1914330117>

2019

Rathmann H, Kyle B, Nikita E, Harvati K, Saltini Semerari G (2019). Population history of southern Italy during Greek colonization inferred from dental remains. *American Journal of Physical Anthropology* 170 (4): 519-534. <https://doi.org/10.1002/ajpa.23937>

2017

Rathmann H, Reyes-Centeno H, Ghirotto S, Creanza N, Hanihara T, Harvati K (2017). Reconstructing human population history from dental phenotypes. *Scientific Reports* 7: 12495. <https://doi.org/10.1038/s41598-017-12621-y>

Reyes-Centeno H, **Rathmann H**, Hanihara T, Harvati K (2017): Testing modern human out-of-Africa dispersal models using dental non-metric data. *Current Anthropology* 58 (S17): S406-S417. <https://doi.org/10.1086/694423>

Rathmann H, Saltini Semerari G, Harvati K (2017). Evidence for migration influx into the ancient Greek colony of Metaponto: A population genetics approach using dental nonmetric traits. *International Journal of Osteoarchaeology* 27 (3): 453-464. <https://doi.org/10.1002/oa.2569>

Publications in peer-reviewed edited volumes

2024

Rathmann H (2024). Biodistance analysis. *Encyclopedia of Archaeology, 2nd Edition, Volume 2B*: 882-891. <https://doi.org/10.1016/B978-0-323-90799-6.00005-7>

2022

Saltini Semerari G, **Rathmann H** (2022). Disentangling biological and constructed identities: The Greek colonization of Southern Italy. In: Sossau V, Riehle K (Eds.), *Mistaken Identity. Identitäten als Ressourcen im Zentralen Mittelmeerraum. RessourcenKulturen 19* (Tübingen University Press 2022): 203-220. <http://doi.org/10.15496/publikation-73796>

2020

Rathmann H, Wahl J (2020). Strikte Regel oder strittige Richtlinie? Eine kritische Betrachtung der geschlechtsdifferenzierten Seitenlage der Schnurkeramiker. In: Mayer C, Held P, Knipper C, Nicklisch N (Eds.), *Der Zahn der Zeit: Mensch und Kultur im Spiegel interdisziplinärer Forschung. Festschrift Kurt für W. Alt. Veröffentlichungen des Landesamtes für Archäologie Sachsen-Anhalt – Landesmuseum für Vorgeschichte 77*: 47-59. ISBN 9783944507811

Popular science publications in non-refereed journals

2020

Rathmann H, Reyes-Centeno H (2020). Das menschliche Gebiss als Spiegel unserer Evolution. *Blickpunkt Archäologie 2*: 146-149.

Conference abstract publications

2024

Rathmann H, Perretti S, Porcu V, Hanihara T, Scott GR, Irish JD, Reyes-Centeno H, Ghirotto S, Harvati K (2024). Evaluating the utility of craniodental metric and non-metric data in biodistance analysis. *30th EAA Annual Meeting (Rome, Italy 2024) – Abstract Book*: 509. ISBN 978-80-88441-08-3

2023

Rathmann H, Perretti S, Porcu V, Hanihara T, Scott GR, Irish JD, Reyes-Centeno H, Ghirotto S, Harvati K (2023). Testing the utility of cranial and dental metric and non-metric data for inferring human population structure and history. *PaleoAnthropology 2023* (2): 377. <https://doi.org/10.48738/2023.iss2.1093>

2022

Gretzinger J, Mötsch A, Schmitt F, Francken M, **Rathmann H**, Wieland G, Harvati K, Schier W, Krause D, Krause J, Schiffels S (2022). Kin and power in early Celtic communities of southwestern Germany. *EMBL Symposium “Reconstructing the human past: using ancient and modern genomics”*, 13-16 September (Heidelberg and Virtual, 2022)

Rathmann H, Stoyanov R, Posamentir R (2022). Biodistance between flexed and extended burials at the Greek colony of Chersonesos. *American Journal of Biological Anthropology* 177 (S73): 150. <https://doi.org/10.1002/ajpa.24514>

Rathmann H, Stoyanov R, Posamentir R (2022). Kinship and mortuary practices at the ancient Greek colony of Chersonesos (Crimea): Insights from dental morphology. *Bulletin of the International Association for Paleodontology* 16 (2): 173. <https://hrcak.srce.hr/281510>

Rathmann H, Perretti S, Porcu V, Ghirotto S, Reyes-Centeno H, Harvati K (2022). Inferring human neutral genetic variation from craniodental phenotypes. *PaleoAnthropology* 2022 (2): 562. <https://doi.org/10.48738/2022.iss2.809>

2021

Rathmann H, Reyes-Centeno H (2021). The utility of dental nonmetric ASUDAS traits and trait combinations for inferring human population history. *American Journal of Physical Anthropology* 174 (S71): 88. <https://doi.org/10.1002/ajpa.24262>

Gretzinger J, Mötsch A, Schmitt F, Francken M, **Rathmann H**, Wieland G, Harvati K, Schier W, Krause D, Krause J, Schiffels S (2021). Kin and power in early Celtic communities of southwestern Germany. *27th EAA Annual Meeting (Kiel Virtual, 2021) – Abstract Book*: 713. ISBN 978-80-907270-8-3

2020

Rathmann H, Reyes-Centeno H (2019). The utility of different dental traits and trait combinations for inferring human population history. *Proceedings of the 10th Annual Meeting of the European Society for the Study of Human Evolution*: 100

2019

Rathmann H, Kyle B, Harvati K, Posamentir R, Saltini Semerari G (2019). Population history of southern Italy during Greek colonization inferred from dental remains. *American Journal of Physical Anthropology* 168 (S68): 200. <https://doi.org/10.1002/ajpa.23802>

Rathmann H, Reyes-Centeno H (2019). Testing the utility of different ASUDAS dental trait combinations for biodistance analysis. *Proceedings of the 9th Annual Meeting of the European Society for the Study of Human Evolution*: 158

2017

Rathmann H, Saltini Semerari G, Harvati K (2017). Evidence for intense migration influx into the Greek colony of Metaponto: A study of dental nonmetric variation. *American Journal of Physical Anthropology* 159 (S69): 264. <https://doi.org/10.1002/ajpa.22955>

Rathmann H, Reyes-Centeno H, Ghirotto S, Creanza N, Hanihara T, Harvati K (2017). Can dental morphology be used as a proxy for nuclear DNA to reconstruct human population relatedness? *Proceedings of the 7th Annual Meeting of the European Society for the Study of Human Evolution*: 155