

Publications in peer-reviewed journals

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. *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: 453-464. <https://doi.org/10.1002/oa.2569>

Publications in peer-reviewed edited volumes

2023

Rathmann H (2023). Biodistance analysis. *Encyclopedia of Archaeology, 2nd Edition*: 1-10. <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. (Hrsg.), *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: *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.

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

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 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 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 Human Evolution*: 155

Conference podium presentations

2023

“Skeletal morphology and reconstructing population history”. *Workshop “New Results and Methods in Reconstructing Population History”*, Zurich, Swiss, 30 January-01 February 2023

2022

“Inferring human neutral genetic variation from craniodental phenotypes”. *12th Annual Meeting of the European Society for the Study of Human Evolution*, Tübingen, Germany, 22-24 September 2022

2021

“The utility of dental nonmetric ASUDAS traits and trait combinations for inferring human population history”. *90th Annual Meeting of the American Association of Physical Anthropology*, Worldwide Online, 07-28 April 2021

2020

“The utility of different dental traits and trait combinations for inferring human population history”. *10th Annual Meeting of the European Society for Human Evolution*, Worldwide Online, 24-25 September 2020

2019

“Reconstructing human population history from dental phenotypes: Methods and applications in archaeology” *Workshop “All about teeth: Multidisciplinary methods for investigating domestication, pathology, genetics, diet, and mobility”*, Tübingen, Germany, 05 July 2019

2018

“Population history of southern Italy inferred from skeletal remains”. *4th Annual Symposium of the DFG Centre for Advanced Studies “Words, Bones, Genes, Tools”*, Tübingen, Germany, 13-16 December 2018

2016

“Disentangling biological and constructed identities in the Gulf of Taranto”. *Mistaken Identity. Identities as resources in the central Mediterranean*, Tübingen, Germany, 17-19 November 2016

2015

“Using dental phenotypic markers to detect migration and admixture in archaeological contexts. Implications for future research at Selinunte”. *Selinunte: Stato della ricerca e prospettive future*, Rome, Italy, 11-12 September 2015

“Biological interactions between the Greek colony of Metaponto and indigenous Italic groups of the surrounding hinterland”. *Gli insediamenti indigeni dell'Italia meridionale e della Sicilia in età arcaica. Cavallino. 10 anni di ricerche nel Museo Diffuso*, Lecce, Italy, 26-27 March 2015

Conference poster presentations

2022

Rathmann H, Stoyanov R, Posamentir R (2022). Kinship and mortuary practices at the ancient Greek colony of Chersonesos (Crimea): Insights from dental morphology. *18th International Symposium on Dental Morphology and 3rd congress of the International Association of the Palaeodontology*, Frankfurt, Germany, 15-19 August 2022

Rathmann H, Stoyanov R, Posamentir R (2022). Biodistance between flexed and extended burials at the Greek colony of Chersonesos. *91st Annual Meeting of the American Association of Biological Anthropologists*, Worldwide Online, 23 March-1 April 2022

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. *88th Annual Meeting of the American Association of Physical Anthropology*, Cleaveland, USA, 27-30 March 2019

Rathmann H, Reyes-Centeno H (2019). Testing the utility of different ASUDAS dental trait combinations for biodistance analysis. *9th Annual Meeting of the European Society for Human Evolution*, Liège, Belgium, 19-21 September 2019

2017

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? *7th Annual Meeting of the European Society for Human Evolution*, Leiden, Netherlands, 21-23 September 2017

2016

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. *85th Annual Meeting of the American Association of Physical Anthropology*, Atlanta, USA, 12-16 April 2016