



Palaeoproteomics And Archaeology, Society for Techniques and Advances

**3/2026**

**Dear PAASTA community,**

Welcome to the third newsletter of 2026! In June, we held our first online PAASTA summer school, for which we have received a lot of positive feedback and some good ideas for the next one. Therefore, it is likely that there will be another summer school next year.

In the foreseeable future, PAASTA may organize its 1<sup>st</sup> PAASTA Community Awards. If you have ideas for categories or want to help organize it, see below for more info.

Happy reading and, as always, if there is anything you would like to let others know about via this newsletter - no matter if it's a big or minor thing - you are very welcome to let us know by sending a message to [paasta.community@gmail.com](mailto:paasta.community@gmail.com).

## Upcoming Events

- |                                        |                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| July 6 <sup>th</sup> - 9 <sup>th</sup> | Association of South African Professional Archaeologists ( <a href="#">ASAPA</a> ) 2026 session, Molecules & Meaning: New Frontiers in African Archaeology, University of Mpumalanga, Mbombela, South Africa, Correspondence: <a href="mailto:bacara.spruit@gmail.com">bacara.spruit@gmail.com</a> |
| July 8 <sup>th</sup>                   | PAASTA talk series, Ioannis Patramanis, "Assessing the potential of ancient protein sequences in the study of hominid evolution", 15:00 CEST, <i>online link to come</i>                                                                                                                           |
| July 15 <sup>th</sup>                  | PITAAA (Practices in Isotopic Techniques and Advancing Applications in Archaeology) talk: "High-resolution 87Sr/86Sr isoscapes and                                                                                                                                                                 |

- Mobility in Prehistoric Southwest Iberia", speaker: Dr Dobereiner Chala Aldana (University of Granada), 16:00 CEST, [online link](#)
- August 12<sup>th</sup> - 21<sup>st</sup> Practical Palaeoproteomics Summer School, University of Copenhagen, Denmark
- August 22<sup>nd</sup> - 28<sup>th</sup> International Mass Spectrometry Conference ([IMSC](#)), Lyon, France
- August 26<sup>th</sup> - 29<sup>th</sup> [European Association of Archaeologists](#) annual meeting in Athens, Greece
- Aug 31<sup>st</sup> - Sep 4<sup>th</sup> [XXI World Congress](#) of the International Union of Prehistoric and Protohistoric Sciences, in Poznań, Poland
- September 15<sup>th</sup> - 16<sup>th</sup> Integrating ZooMS and Zooarchaeology meeting (IZAZ). Join the [mailing list](#) for more info. Contact: [samantha.brown@cenieh.es](mailto:samantha.brown@cenieh.es) (online meeting)
- September 17<sup>th</sup> - 19<sup>th</sup> European Society for the study of Human Evolution ([ESHE](#)) 2026 Meeting, in Burgos, Spain
- Sept 28<sup>th</sup> - Oct 3<sup>rd</sup> International Council for Archaeozoology Fish Remains Working Group ([ICAZ-FRWG](#)) International Conference, Nice, France.
- Nov 29<sup>th</sup> - Dec 3<sup>rd</sup> XV International Congress of the European Proteomics Association ([EuPA](#)) in Würzburg, Germany

*Is there some event you are missing in this list? Let the community know in the #events Element channel (info how to join Element in footer). We also have a google [calendar](#). If you have any events that you would like for us to add to this calendar, please send them to [paasta.community@gmail.com](mailto:paasta.community@gmail.com).*

## New Publications

Armaroli, E., Lugli, F., Tacail, T., Kindler, L., Gaudzinski-Windheuser, S., Scherjon, F., Roebroeks, W., Parker, G., Vonhof, H., Cipriani, A. and Tütken, T., 2026. **Life histories of straight-tusked elephants from the Last Interglacial Neanderthal site of Neumark-Nord (~ 125 ka).** *Science Advances*, 12(11), p.eadz0114. <https://doi.org/10.1126/sciadv.adz0114>

Armaroli, E., Lugli, F., Serrone, E., Demarchi, B., Mazzola, M., Sandron, S., Suyunov, S., Berdimuradov, A., Vonhof, H., Mantellini, S. and Cipriani, A., 2026. **Tracing herding strategies in the Samarkand Oasis: isotopic and proteomic insights from Kafir Kala (Samarkand, Uzbekistan).** *Archaeological and Anthropological Sciences*, 18(7), p.154. <https://doi.org/10.1007/s12520-026-02516-3>

Bal-García, H., Brown, S., Rey-Rodríguez, I., Díaz-Rodríguez, M., Fernández-Rodríguez, C., Ibáñez-Encinas, Á., de Lombera-Hermida, A., Mosquera-Castro, T., Rodríguez-Álvarez, X.P. and Fábregas-Valcarce, R., 2026. **Expanding the faunal interpretation of the Cova Eirós (NW Iberia) middle paleolithic–early upper paleolithic record with zooMS.** *International Journal of Osteoarchaeology*. <https://doi.org/10.1002/oa.70107>

Bai, F., Wu, Z., Xing, S. and Fu, Q., 2026. **Rapid and robust sex determination from ancient enamel proteomes using protSexInferer.** *bioRxiv*, pp.2026-03. <https://doi.org/10.64898/2026.03.23.713598> (PREPRINT)

Carro, Sofia Samper, Paula Kloti, Joseph Boileau, Vera Weisbecker, and Sue O'Connor, 2026. **Ozboneprot: A de novo sequencing workflow to enable shotgun palaeoproteomics on Australian zooarchaeological and paleontological samples.** *Researchsquare*. <https://doi.org/10.21203/rs.3.rs-9603698/v1> (PREPRINT)

Cheeseman, M., Louise-Lambourne, M., Peters, C., Amano, N., Boivin, N.L. and Manne, T., 2026. Food and identity (re)creation in migrant communities: **Applying ZooMS to highly fragmented faunal remains from an historical Queensland gold mining town, Ravenswood.** *Journal of Archaeological Science*, 106565 (190). <https://doi.org/10.1016/j.jas.2026.106565>.

Dalal, J., Kumari, P., Gupta, V. and Chhikara, A., 2026. **Proteomic profiling of bone for the estimation of post-mortem interval and post-mortem submersion interval: a systematic review.** *International Journal of Legal Medicine*, pp.1-32. <https://doi.org/10.1007/s00414-026-03870-6>

de la Fuente, J., Villar, M. and Estrada-Peña, A., 2026. **Paleontological Approaches for The Study of Fossils.** *American J Sci Edu Re: AJSER*-302. <https://doi.org/10.71010/2835-6764/ajser-e302>

Early, E.M.K., Bell, C.J., Collins, M.J., Todd, V.L. and Shanahan, T.M., 2026. **Proteomic taxonomic identification can identify cryptic diversity of Squamata in modern and paleontological specimens.** *Scientific reports*. <https://doi.org/10.1038/s41598-025-14392-3>

Fu, Q., Wu, Z., Bennett, E.A., Xing, S., Ji, Q., Dong, Z., Rao, H., Gu, X., Dang, Y., Xing, J. and Zhou, K., 2026. **Enamel proteins from six *Homo erectus* specimens across China.** *Nature*, pp.1-7.  
<https://doi.org/10.1038/s41586-026-10478-8>

Gutiérrez-Carbajal, A., Santos, E., Lizano, E., Marques-Bonet, T., Fong-Zazueta, R., Grandal-d'Anglade, A., Alba, D.M., García-Vázquez, A., Gómez-Olivencia, A., Villalba de Alvarado, M., Pandolfi, L., Rook, L., Sanz, M., Daura, J., Zilhão, J., Arsuaga, J.L., Bermúdez de Castro, J.M., Martínón-Torres, M., 2026. **Palaeoproteomic insights into the evolutionary history of cave bears from southwestern Europe.** *Scientific Reports*. <https://doi.org/10.1038/s41598-026-58093-x>

Madupe, P., Taurozzi, A., Koenig C., Patramanis, I., Munir, F., Dickinson, M.R., Mackie, M., Troché, G., Parker, G., Kyriakidou, P., Mahoney, P., McFarlane, G., Zipfel, B., Cox, J., Penkman, K., Schroeder, L., Ackermann, R.R., V. Olsen, J., Hawks, J., Berger, L., Cappellini, E., 2026. **Proteomic analysis of dental enamel from 20 *Homo naledi* individuals shows no male markers.** *Cell*  
<https://doi.org/10.1016/j.cell.2026.05.044>

Makarova, M., Codato, A., Orsoni, M.J., Latorre, A., Mazzini, A., Prantoni, E., Maini, E., Serrone, E., Mazzola, M., Grotto Maffiotti, E. and Cardarelli, L., 2026. **Benchmarking Biomolecular Preservation and Ancient DNA Recovery from Bronze Age Italian Livestock Remains: Preliminary Results from the HERDS Project.** *RIVISTA DI SCIENZE PREISTORICHE*, pp.133-153.  
[https://cris.unibo.it/bitstream/11585/1065095/1/Makarova%20et%20al%202026%20Herds\\_aDNA.pdf](https://cris.unibo.it/bitstream/11585/1065095/1/Makarova%20et%20al%202026%20Herds_aDNA.pdf)

Naveiro Rosales, M., Wang, N., Brown, S., Luciañez Triviño, M., Pečnerová, P., Santana, J., Rodríguez Santos, F.J., Camalich Massieu, M.D., Martín Socas, D. and Murillo-Barroso, M., 2026. **Strengths and constraints in ivory provenance research: La Beleña (Córdoba, Spain) as a case study.** *Scientific Reports*. <https://doi.org/10.1038/s41598-026-44569-3>

Kasso, T., Vnouček, J., Sacristán, L., Piñeros, G.R., Viñas-Caron, L.C., Targalski, N.F., Ramsøe, M., Nair, B., Belevich, I., Jokitalo, E. and Collins, M.J., 2026. **Text, tradition, and technology: rediscovering the first printed book for Finland, Missale Aboense, through interdisciplinary analysis.** *npj Heritage Science*, 14(1), p.202. <https://doi.org/10.1038/s40494-026-02471-1>

Keane, R.E., Gummer, J.P., Tidy, R.J. and Parker, G.J., 2026. **Taxonomic Source Identification of Hair.** *Journal of Proteome Research*. <https://doi.org/10.1021/acs.jproteome.5c00638>

Morvan, M., 2026. **SexPeptID: an automated and reproducible workflow for paleoproteomics sex estimation in archaeological enamel.** *bioRxiv*, pp.2026-06.  
<https://doi.org/10.64898/2026.06.05.730301> (PREPRINT)

Paladugu, R., Antonosyan, M., Bustamante-Álvarez, M., Roberts, P. and Detry, C., 2026. **Characterization of raw material in textile bone instruments from the capital of the Roman Province of Lusitania (Mérida, Spain).** *Scientific Reports*. <https://doi.org/10.1038/s41598-026-55935-6>

Qiu, M., Yang, S., Abudu, A., Du, L., Yan, Z., Cao, H., Liu, P., Zhang, Z., Niyazi, A., Liu, J. and Xu, Y., 2026. **Dairy-millet synergy underpinned subsistence adaptation to Inner Asian mountains from 2900 BCE.** *Communications Earth & Environment*. <https://doi.org/10.1038/s43247-026-03487-y>

Végh, E.I., Afjehi-Sadat, L., Gianni, M., Horejs, B., Yazbeck, C. and Higham, T., 2026. **Tiny Hopes—Assessing Protein Preservation in Collagen-Depleted Bones.** *Journal of Proteome Research*. <https://doi.org/10.1021/acs.jproteome.5c01274>

Yates III, J.R., 2026. **A Selective History of Protein Sequencing and the Impact of Donald F. Hunt on Protein Sequencing by Tandem Mass Spectrometry.** *Journal of proteome research*, 25(6), pp.2609-2625. <https://doi.org/10.1021/acs.jproteome.5c01187>

*Is there some publication you are missing in this list? Let the community know in the #papers Element channel (info on how to join Element in footer).*

## Job opportunities

### Senior Lab Technician (Archaeological Proteomics) at University of Reading

Full time, application closing date **July 7<sup>th</sup> 2026**, more information [here](#).

## News from the community

### 🏆🏆🏆 1<sup>st</sup> PAASTA Community Awards 🏆🏆🏆

We would like to award our members for the bigger and smaller achievements that scientists can make, such as “Best Paper Title” or “Best New Tool”. Contribute your own ideas, we look for volunteers to help create this little fun event! Join the element room [#community\\_awards](#).

## Stay connected

- Sign up to our [PAASTA mailing list](#), if you haven't yet!
- Our [website](#)
- Our [calendar](#)
- Our [spreadsheet](#) of palaeoproteomics labs
- Join our [Element space](#) (alternative to Slack)
- Email us: [paasta.community@gmail.com](mailto:paasta.community@gmail.com)
- Speaker [sign-up form](#) for PAASTA talk series
- [YouTube](#)  YouTube
- [Twitter](#) ("X") 
- [BlueSky](#) 

*This newsletter was composed by Johanna Krueger.*

*The PAASTA Community is an affiliate of The International Society for Biomolecular Archaeology (ISBA), a Charitable Incorporated Organisation registered in England. Additionally, PAASTA is an initiative of the European Proteomics Association (EuPA), an "eingetragener Verein" registered in Germany. ISBA and EuPA provide infrastructural and financial support of the student-led activities of PAASTA.*