

PERSONAL INFORMATION

Family name, First name: GILLIS, Rosalind

Researcher unique identifier: Scopus Author ID: 55821869700/ ORCID ID: 0000-0002-2370-7311

Date of birth: 24/06/1979

Nationality: British

• EDUCATION

- 2012 PhD (Very good with felicitations from the Jury)
 UMR 7209 Archéozoologie, Archéobotanique/ Homme et Environnement, CNRS-
 Muséum national d'Histoire naturelle, Paris, France
 Supervisor: Dr Jean-Denis Vigne
- 2002 Masters of Science, Biomolecular Archaeology (Distinction)
 Department of Archaeology, University of Sheffield, United Kingdom
- 2001 Bachelor of Science (Hons) Environmental Archaeology (2.1)
 Department of Archaeology, University of Edinburgh, United Kingdom

• CURRENT POSITION

To start November 2018: FCT Assistant researcher fellowship at ICArEHB, Universidade do Algarve

• PREVIOUS POSITIONS

- 2017-2018 Co-coordinator for the grant proposal ROOTS, a DFG excellence initiative,
 Graduate School-Human development in landscapes, Christian-Albrechts-Universität,
 Kiel, Germany
- 2016 – 2017 ASIL lab manager (Head: Prof Cheryl Mackarwicz),
 Institut für Ur- und Frühgeschichte, Christian-Albrechts-Universität, Kiel, Germany
- 2013 – 2016 Post-doctoral research assistant, NeoMilk (ERC advanced grant awarded to
 Evershed (FP7-IDEAS-ERC/324202)), UMR 7209, CNRS/MNHN, Paris, France
- 2013 Archaeozoological technician, InRAP, Paris, France
- 2012 Post-doctoral research assistant, SIANHE (ERC starting grant awarded to Balasse
 (GA 202881)), UMR 7209, CNRS/MNHN, Paris, France
- 2005-2008 Project Officer, Headland Archaeology Ltd, Edinburgh, UK

• FELLOWSHIPS

- 2008 – 2012 PhD, LeCHE (FP7-ITN-215362-2)
 UMR 7209, CNRS-MNHN, France

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2013 – 2016 3PhD: UMR 7209, CNRS/MNHN, France/ University of Bristol/ University of Exeter,

 Dr Emily V. Johnson (viva 2017, supervisor: Prof. A. Outram): *A zooarchaeological
 study of butchery and bone fat processing practices among early Neolithic farming
 societies in central Europe* (My role was help in sample coordination,

archaeozoological and scientific analysis).

Dr Juliette Knockaert (viva Dec 2017, supervisor: Dr J.-D. Vigne): *Animal economy and management in the Mediterranean Pyrenees during the Bronze Age: archaeozoological and stable isotopic ($\delta^{18}\text{O}$ and $\delta^{13}\text{C}$) approaches* (My role was help in scientific and statistical analysis),

Dr Iain Kendall (viva Nov 2017, supervisor: Prof. R.P. Evershed): *Development of an amino acid $\delta^{15}\text{N}$ -based proxy for the elucidation of the diets and habitats of Neolithic cattle* (My role was help in sample coordination and scientific analysis) .

2017-2018 Post-doc Dr Minghao Lin: Humboldt fellowship Project *Investigation of dairy practices during the Late Neolithic in China using biomolecular and archaeozoological approaches* (My role was help in training in stable isotope sample selection and preparation).

• TEACHING ACTIVITIES

2016 Lecturer – Biomolecular archaeology, Institut für Ur- und Frühgeschichte, Christian-Albrechts-Universität, Germany

2013-2014 Archaeological field skills demonstrator – Department of Archaeology, University of Aberdeen, UK

• GRANTS

2008-2011 Marie curie researcher fellow, ITN LeCHE, 7th EU framework project (128, 826 euros)

2009 Inter-LeCHE funding completion (1500 euros)
Funded initial research into sheep retro viruses including sample collection and aDNA analysis.

• SELECTION OF SCIENTIFIC MEETINGS

2018 Session co-organiser '*Integrative approaches to the study of animal husbandry, plant resource management and their impact on the landscape*', Annual meeting of the European association of Archaeologists 2018, Spain

2016 Conference co-organiser '*Food and farming*', Neolithic working group, 60 participants, United Kingdom

2015 Session co-organiser '*Mobility during prehistory*', European association of archaeologists' conference, 25 participants, United Kingdom

2014 Roundtable organiser '*Statistical analysis of prehistoric animal mortality data and its use in modelling herd demographics*', 20 participants, France

2014 Roundtable organiser '*Linearbandkeramik faunal assemblages*', 30 participants, France

2010 Networking event for post-graduate archaeozoological researchers attended by over 50 participants. The 11th ICAZ conference, Paris.

2010 Session co-organiser '*The development and specialisation of dairy husbandries*'. The 11th ICAZ conference, Paris

• INSTITUTIONAL RESPONSIBILITIES

2017 – 2018 Member of Graduate School Board, Christian-Albrechts-Universität, Kiel, Germany

2017 Lab manager for archaeological stable isotope lab (ASIL), Christian-Albrechts-Universität, Kiel, Germany

2014 – 2015 Member of the Faculty Committee, UMR 7209, MNHN, Paris, France

2007 – 2008 Staff representative, Headland Archaeology Ltd, United Kingdom

- **COMMISSIONS OF TRUST**

2017 – Associate Editor, Journal of Environmental Archaeology
2012 – Reviewer, Journal of Archaeological Science, World Archaeology,

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2010- Member of the European Association of Archaeologists
2008 – Member, International committee of zooarchaeology
2010 – 2016 Member, Research Network “*Biodat*”
2008 – 2014 Member, Research Network “*BioArch*”

- **OUTREACH/ DISSEMINATION**

2013 Interviewed for Curry, A. 2013 The Milk revolution. *Nature* 500: 20-21.
2013 ‘Timorous beasties: introduction to archaeozoology’/‘First aid for finds’,
The Tarbat Discovery Centre, Scotland.
2008-2013 Jour de science: Atelier archéologique, MNHN, Paris
2008 M74 dig dairy during the M74 excavations by HAPCA, Glasgow.
2006 Archaeology of Leith, The Leith festival, Edinburgh

- **COMMUNICATIONS**

Invited Speaker

Gillis, R. 2017. Early Neolithic ruminant herd management: perspectives from age-at-death and stable isotopic analysis. University of Belgrade, Department of Archaeology May 2017.

Gillis, R. 2015. Domestication, Néolithisation et Lait. *Journées Francophones de Nutrition JFN 2015*, Marseille

Conference Paper/Posters

Smyth J., **Gillis R.**, Roffet-Salque M., and Evershed R. 2015. *The dairying revolution in temperate Neolithic Europe – an integrated approach*. Paper presented at the 21st EAA conference, Glasgow, 5th September 2015. **Joint Oral**

Gillis R. 2015. *Review and perspectives on study animal mobility during Scottish prehistory*. Paper presented at the 21st EAA conference, Glasgow, 5th September 2015. **Oral**

Gillis R., Gerbault P., Bréhard S., Callou C., Baly I., Tresset A, Thomas M.G., Vigne J.-D. and Evershed R.P. 2014 *New methodological approaches and perspectives on the development of caprine dairying in Europe from the 7th to 5th Millennium BC*. Paper presented at the 12th ICAZ conference, San Rafael, Argentine, 22nd September 2014. **Oral**

Gillis, R., Bréhard S., Balasescu A., Vigne J.-D., Popovici D. & Balasse, M. 2013. *Milk production during the late 5th millennium at P. Bordusani, Romania; a complementary study using mortality profile and stable isotopic analysis (δ 13C, δ 15N and δ 18O) of cattle dental remains*. The 19th meeting of the European Association of Archaeologists, Pilsen, September 2013. **Poster**

Gillis R.E., Bréhard S., Balasescu A., Vigne J.-D., Popovici D. and Balasse M. 2012. *A stable isotope study (d13C, d15N and d18O) of mandibular bone, dentine and dental enamel from a late 5th millennium cattle herd from P. Bordusani, Romania*. Early Farmers: The view from Archaeology and Science, Cardiff 2012. **Poster**

Gillis, R. 2012 *Osteological contributions to understanding dairy management during the Neolithic: a good cow is always praised once she is dead*. Paper presented at the Marie Skłodowska-Curie FP7 Early training network LeCHE final meeting, Amsterdam, June 2011. **Oral**

Gillis R., Chaix, L. and Vigne J.-D. 2010. An assessment of the reliability of dental morphological criteria for discriminating domestic sheep and goat on an archaeological assemblage from Kerma, Sudan. Paper presented at the 11th ICAZ conference, Paris. **Oral**

- **PUBLICATIONS (h-index=6)**

Publications in international peer-reviewed journals (* Corresponding author)

Gillis R.E.*, Gaastra, J.S., Vander Linden, M., and Vigne J.-D. (In press)

A species specific investigation into sheep and goat husbandry during the early European Neolithic. *Journal of Environmental Archaeology*. DOI: 10.1080/14614103.2019.1615214.

Timpson, A., **Gillis, R.E.**, Manning, K. and Thomas, M.G. (2018) Modelling caprine age-at-death profiles using the Gamma distribution. *Journal of Archaeological Science* 99: 19-26.

Gillis R.E.*, Kovačiková, L. Bréhard, S. Guthmann, E., Vostrovská, H. Arbogast, R.-M., Domboróczy, L. Pechtl, J. Anders, A., Marciniak, A. Tresset, A., and Vigne, J.-D. (2017) The evolution of dual meat and milk cattle husbandry in Linearbandkeramik societies. *Proc. R. Soc. B* 284: 20170905; DOI: 10.1098/rspb.2017.0905.

Debono Spiteri, C., **Gillis, R.E.**, Roffet-Salque, M., Castells Navarro, L. Guilaine, J., Manen, C., Muntoni, I, M., Saña Seguí, M., Urem-Kotsou, D., Whelton, H. L., Craig, O. E., Vigne, J.-D., Evershed, R. P. (2016), Regional asynchronicity in dairy production and processing in early farming communities of the northern Mediterranean. *Proceedings of the National Academy of Sciences* 113 (48), 13594-13599

Pickard, C., Schoop, U.-D., Bartosiewicz, L., **Gillis, R.E.**, Sayle, K. L. (2016) Animal keeping in Chalcolithic north-central Anatolia: what can stable isotope analysis add? *Archaeological and Anthropological Sciences*. doi:10.1007/s12520-016-0386-0

Gerbault P., **Gillis R.E.***, Vigne J.-D, Bréhard S., Tresset A. and Thomas M. G. (2016) Statistically Robust Representation and Comparison of Mortality Profiles in Archaeozoology. *Journal of Archaeological Sciences* **71**: 24-32. DOI:10.1016/j.jas.2016.05.001. 2.14 Impact Factor. 41 H5 index.

Balasse M., Balasescu A., Tornero C., Frémondeau D, Hovsepian R., **Gillis R.E.**, and Popovici D. (2016) Investigating the scale of herding in Chalcolithic pastoral communities settled by the Danube river in the 5th millennium BC: a case study at Bordușani-Popină and Hârșova-tell (Romania). *Quaternary International* DOI:10.1016/j.quaint.2015.07.030. 2.13 Impact Factor. 69 H5-index.

Gillis R.E.*, Carrère I, Saña Seguí M, Radi G and Vigne J.-D. (2015) Neonatal mortality, young calf slaughter and milk production during the Early Neolithic of North Western Mediterranean. *International Journal of Osteoarchaeology* **26**(2): 303-313. DOI:10.1002/oa.2422. 0.95 Impact Factor. 20 H5-index.

Gillis R.*, Arbogast R.-M., Piningre J.-F., Debue K., and Vigne J.-D. (2014) Prediction models for age-at-death estimates for calves, using un-fused epiphyses and diaphyses. *International Journal of Osteoarchaeology* 25(6): 912-922. DOI:10.1002/oa.2377. 0.95 Impact Factor. 20 H5-index.

Gillis R.*, Bréhard S., Balasescu A., Vigne J.-D., Popovici D. and Balasse M. (2013) Sophisticated cattle dairy husbandry at Bordușani-Popină (Romania, 5th mill BC): the evidence from complementary analysis of mortality profiles and stable isotopes. *World Archaeology* 45(3): 447-472. DOI: 10.1080/00438243.2013.820652. 1.8 Impact Factor. 16 H5-index.

Gillis R.*, Chaix L. and Vigne J.-D. (2011) An assessment of morphological criteria for discriminating sheep and goat mandibles on a large prehistoric archaeological assemblage (Kerma, Sudan) *Journal of Archaeological Science*; **38**(9): 2324-2339. DOI:10.1016/j.jas.2011.04.012 2.14 Impact Factor. 41 H5 index.

Conference proceedings

Bartosiewicz L., **Gillis R.**, Girdland-Flink L., Evin A., Cucchi T., Hoelzel R., Vidarsdottir U., Dobney K., Larson G. and Schoop U-D. (2013) Chalcolithic pig remains from Çamlıbel Tarlası, Central Anatolia.

Archaeozoology of the Near East X. Proceedings of the Tenth International Symposium on the Archaeozoology of South-Western Asia and adjacent areas. De Cupere, B., Linseele, V. & Hamilton-Dyer, S. (eds.). Leuven: Peeters, Leuven, p. 101–120.

Vigne, J.-D. and **Gillis, R.E.** (Eds. 2012) The development and specialisation of dairying practices. *Anthropozoologica* 47(2)

Book chapters

Gillis, R.E., Kendall, I., Evershed, R.P. et Balasse, M. (Accepted) Conduite de l'élevage dans un environnement forestier à Bischoffsheim : une approche biogéochimique. En Arbogast, R.-M and Jeunesse, C. (Eds). *Bischoffsheim monographie*.

Gillis, R.E. (In press). Age-at-death analysis of animals from the ditches and settlement pits at Herxheim. In Zeeb-Lanz, A. (Ed) *The Exceptional Site of Herxheim (Palatinate, Germany)* VOLII.

Roffet-Salque, M. **Gillis, R.E.**, Evershed, R.P., Vigne, J.-D. (2018) Milk as a pivotal media in the domestication of cattle, sheep and goat. In Vigne, J.-D., Stépanoff, C. (Eds) *Rethinking domestication: Biosocial Approaches to hybrid communities*. Routledge, pp. 127-143.

Gillis, R.E. (2018). Dairying. In S. L. Lopez Varela (Ed.) *The SAS Encyclopaedia of Archaeological Sciences*.

Roffet-Salque, M., **Gillis, R.E.** and Gerbault, P. (2017) Une Histoire de l'exploitation laitière : approches génétique, archéozoologique et biomoléculaire in M. Balasse and P. Dillmann, (Eds) *Regards croisés : quand les sciences archéologiques rencontrent l'innovation*. Paris, éditions des archives contemporaines. Pp1-23.

Gillis R.E., (2017) A calf's eye view of milk production: Tony Legge's contribution to dairy husbandry studies. In P. Rowley-Conwy, D. Serjeantson and P. Halstead (Eds.) *Economic Zooarchaeology: Studies in hunting, herding and early agriculture*. Oxford: oxbow books. Pp. 135-142.

Gillis, R. (2012). Beyond the Pail Archaeozoological research into understanding prehistoric milking practises. In Doorn et al. (Eds) *May contain traces of milk - Investigating the role of dairy farming and milk consumption in the European Neolithic*. York, University of York.

Church M. J. and **Gillis R.** (2009). Palaeoenvironmental analyses (ed.) In Rees, A. The excavation of an Iron Age unenclosed settlement and an Early Historic multiple burial and metalworking area at Hawkhill, Lunan Bay, Angus. *Tayside and Fife Archaeological Journal* 15: 38-45.