

Curriculum vitae

Johannes Krause

Born 1980 in Leinefelde, Thuringia, Germany
Contact **Max Planck Institute for Evolutionary Anthropology**
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Research Focus

- **Ancient DNA**
- **Archaeogenetics**
- **Human Evolution**
- **Ancient Pathogen Genomics**
- **Comparative and Evolutionary Genomics**
- **Human Immunogenetics**

Present Positions

since 2020 **Director, Max Planck Institute for Evolutionary Anthropology**, Leipzig,
Department of Archaeogenetics
since 2018 Full **Professor** for Archaeogenetics, Institute of Zoology and Evolutionary
Research, Friedrich Schiller University Jena
since 2016 **Director, Max-Planck – Harvard Research Center** for the Archaeoscience
of the Ancient Mediterranean (MHAAM)
since 2015 Honorary **Professor** for Archaeo- and Paleogenetics, Institute for
Archaeological Sciences, Eberhard Karls University Tuebingen

Professional Career

2014 - 2020 **Director, Max Planck Institute for the Science of Human History**, Jena,
Department of Archaeogenetics
2013 - 2015 Full **Professor (W3)** for Archaeo- and Paleogenetics, Institute for Archaeological
Sciences, Eberhard Karls University Tuebingen
2010 - 2013 **Junior Professor (W1)** for Palaeogenetics, Institute for Archaeological
Sciences, Eberhard Karls University Tuebingen
2008 - 2010 **Postdoctoral Fellow** at the Max Planck Institute for Evolutionary Anthropology,
Department of Evolutionary Genetics, Leipzig, Germany. Research: Ancient human
genetics and genomics
2005 - 2008 **Dr. rer. nat.** (PhD) *From Genes to Genomes: Applications for Multiplex PCR
in Ancient DNA Research*, Grade: 1.0 "Summa cum laude", University of
Leipzig & Max Planck Institute for Evolutionary Anthropology, Germany
2003 - 2005 **Student Assistant** at the Max Planck Institute for Evolutionary Anthropology,
Department of Evolutionary Genetics, Leipzig, Germany

University Education

2000-2005 **Biochemistry**, University Leipzig, Germany
2002-2003 **Biochemistry**, University College Cork, Ireland

Selected Research Grants

2017 - 2019 **GENESEZS: "Genetic exploration of epidemics in central Asia"** – BMBF supported project with Kazakh Scientific Center of Quarantine and Zoonotic Diseases (KSCQZD) and Institute of General Genetics and Cytology (IGGC) in Almaty Kazakhstan Financial volume: 170.000 Euro

2016 - 2021 **Max-Planck – Harvard Research Center for the Archaeoscience in the Ancient Mediterranean (MHAAM)**. Financial volume: 5.000.000 Euro

2015 - 2018 **D-A-Ch Project:** "The Oberbipp Dolmen in the context of the Neolithic Revolution." Financial volume: 200.000 Euro

2013 - 2018 **ERC Starting Grant:** "Ancient Pathogen Genomics of Re-emerging Infectious Disease." Total financial grant: 1,500,000 Euro

2013 - 2016 **WIN-Kolleg** Heidelberger Akademie Projekt: "New ways to integrate natural sciences and humanities." Total financial grant for Palaeogenetics research group: 130,000 Euro

2013 - 2016 **Landesstiftung Baden Wuerttemberg:** "Genetic investigation of the prehistorical settlement of the Ach- and Lone Valleys." Total financial grant: 150,000 Euro

2012-2015 **DFG Research Grant:** "The settlement of Europe: Population genetic history of Pleistocene modern humans in Europe." Total financial grant: 252,000 Euro

2010 - 2014 **Carl-Zeiss-Foundation** (structural innovation program) Environmental Archaeology (Umweltarchaeologie): "The impact of climate change on early societies." Total financial grant for Palaeogenetics research group: 400,000 Euro

Fellowships, Honors and Academic Service

since 2018 **Speaker** for the Max Planck Research School for Human Origins

since 2018 **Distinguished Scientific Advisor** for BGI 10k Ancient Genomes Project

2017 **Annual Thuringian Research Prize** in the area of fundamental research

since 2016 Corresponding Member, **CARTA** (Center for Academic Research & Training in Anthropogeny)

since 2016 Corresponding Member, **German Archaeological Institute**

2015 **Boerhaave Nascholing**, Excellent Speaker Award

since 2014 Reviewing editor of eLife

since 2013 **WIN-Kolleg Fellow** (Heidelberg Academy of Sciences and Humanities)

2013 - 2015 **Speaker** at **EVEREST** - Evolution and Ecology Research School Tuebingen

since 2012 **Executive Board Member** of **EVE** - Evolution and Ecology Forum Tuebingen

since 2011 **Executive Board Member** of **TZA** – Tuebingen Inter-faculty Centre for Archaeology

since 2010 **Associate Editor** for **BMC Genomics**

2010 **Tübinger Förderpreis** of the Society of Early Prehistory and Quaternary Ecology for doctoral thesis

2010 **AAAS Newcomb Cleveland Prize** for the most outstanding paper published in *Science*

since 2005 **Reviewer (ad hoc)** for *Science, Nature, Nature Reviews Genetics, PLoS Biology, PLoS ONE, Molecular Biology and Evolution, Am. J. Phys. Anthropol., BMC Evolutionary Biology, Mitochondria, BMC Bioinformatics, Biotechniques, Genome research, MBE, Biolinguistics, PNAS*, Reviewing Editor for eLife

Teaching

- since 2019 Ringvorlesung in **Human History**, Institute of Zoology and Evolutionary Research, Friedrich Schiller University Jena
- since 2018 Ringvorlesung in **Evolutionary Biology**, Institute of Zoology and Evolutionary Research, Friedrich Schiller University Jena
- since 2015 Ringvorlesung Molekulare Zellbiologie und Biomedizin, Friedrich Schiller University Jena
- 2013 - 2015 Seminar, lecture in **Introduction to Evolutionary Genetics**, Palaeoanthropology Bachelor, University of Tuebingen
- 2011 - 2015 Seminar, lecture and practical session in **Paleogenetics**, Palaeoanthropology Bachelor, University of Tuebingen
- since 2010 Seminar, lecture and practical session in **Human Genetics**, Palaeoanthropology Bachelor, University of Tuebingen
- 2009/2010 Seminar and practical session in **Biochemistry**, Polyvalenter Bachelor, University of Leipzig
- 2009 Practical session: **Evolutionary Ecology**, master module for biologists, University of Leipzig

Student training

Ph.D. Students

22 current Ph.D. students:

Barf, L.M. (since 2019), **Saari, N.** (since 2018), **Musralina, L.** (since 2018), **Neumann, G.** (since 2018), **Clayton, S.** (since 2019), **Carlhoff, S.** (since 2018), **Michel, M.** (MHAAM since 2017), **Barquera, R.** (since 2016), **Naegele, K.** (since 2016), **Neukamm, J.** (since 2016), **Parker, C.** (since 2016), **Skourtanioti, E.** (since 2016), **Fellow Yates, J.** (since 2015), **Furtwängler, A.** (since 2015), **Keller, M.** (since 2015), **Pfrenge, S.** (since 2015), **Sabin, S.** (since 2015), **Valtuna, A.** (since 2015), **van Loodsrecht, M.** (since 2015), **Majander, K.** (since 2014), **Feldman, M.** (since 2013), **Immel, A.** (since 2013)

7 Ph.D. students supervised with theses completed and defended:

Vagene, A. Uni Tuebingen (2013-2018), **Spyrou, M.** Uni Tuebingen (2013-2018) [winner of MPG Otto Hahn Medal], **O'Sullivan, N.** (since 2014-2018), **Posth, C.** Uni Tuebingen (2011-2017), **Peltzer, A.** (since 2014-2017), **Mittnik, A.** Uni Tuebingen (2011-2016), **Schuenemann, V.** Uni Tuebingen (2010-2014)

23 MA theses completed:

Neumann, G. Uni Tuebingen (2017-2018), **Gretzinger, J.** Uni Tuebingen (2017-2018), **Bianco R.A.** Uni Tübingen (2017-2018), **Lacher, L.** Uni Tübingen (2016-2017), **Jodoin, S.** Uni Tübingen (2016-2017), **Venkatkrishnan, S.** Uni Tuebingen (2016-2017), **Feuerborn, T.** Uni Tuebingen (2015-2016), **Sabin, S.** Uni Tuebingen (2015), **Furtwängler, A.** Uni Tuebingen (2014-2015), **Begg, T.** Uni Tuebingen (2014-2015), **Fellow-Yates, J.** Uni Tuebingen (2014-2015), **Neukamm, J.** Uni Tuebingen (2014-2015), **Kuccukalipci, I.** Uni Tuebingen (2014-2015), **Pfrenge, S.** Uni Tuebingen (2014-2015), **Valtuna, A.** Uni Tuebingen (2014-2015), **Peltzer, A.** Uni Tuebingen (2013-2014), **Bonazzi, M.** Uni Strassbourg (2012-2013), **Posth, C.** Uni Florenz (2012-2013), **Langbein, F.** Uni Tuebingen (2011-2012), **Mittnik, A.** Uni Tuebingen (2010-2011), **Rankin, S.** MPI Leipzig (2009-2010), **Northoff, B.** Uni Leipzig (2008-2009), **Unger, T.** Uni Leipzig (2007-2008)

Public Outreach and Media Coverage

Selected television coverage:

MDR: "Riverboat" (2019); NDR: "Das!" (2019); Arte TV, ZDF: „Die Reise der Menschheit“ (awarded with Deutscher Fernsehpreis in 2018); Zweites Deutsches Fernsehen: "Terra X" (November 2017, Oktober 2018); MDR aktuell, Thüringen Journal(2015, 2016, 2017, 2018); BBC: "The Mystery of Rome's X Tombs" (2013); 3Sat - Scobel: "Viren" (2013); Planetopia: "Der Schwarze Tod" (2012); Bundesfilmverband BDFA: "Neandertaler - sind wir wirklich verwandt" (2011); ARTE: "Der Neandertaler in uns" (2010); WDR - Quarks & Co: "Wieviel Neandertaler steckt in uns?" (2010); ZDF, History: "Der Neandertaler-Code" (2010) ; National Geographic Documentary: "Neanderthal Code" (2008) ; The History Channel Documentary: "Clash of the Cavemen" (2008) ; Exploratorium Virtual Museum´s Evidence: "How we know what we know" (2008); ZDF: "Der Neandertaler" (2006)

Selected radio contributions:

Deutschlandradio, Radio Eins, Deutschlandfunk, Deutsche Welle, Radioeins, SRF, NPR, CBC Radio, BBC Radio, Radio Scotland, RBB Kulturradio, MDR Figaro, Mephisto, Radio Schweden, Radio NZ, BBC World, BBC Africa, ORF Radiokolleg, Irish Radio, Radio Sachsen, SBS Sydney

Selected print media:

Science, Nature, The New York Times, National Geographic, Discovery News, GEO Magazine, Times (London), The Guardian, The Independent, Der Spiegel, Der Fokus, FAZ, Die Zeit, Die Welt, Sueddeutsche Zeitung, Channel Four News, USA Today, CNN Online, Washington Post, Frankfurter Rundschau, Science Daily, Neue Zürcher Zeitung, Der Standard, Spektrum der Wissenschaft, International Business Times, Times of India, Science Daily, La Vanguardia, El Pais, Le Figaro

Invited Presentations (total: over 300, selected are listed since 2015)

2019

Technical University of Munich, DE
Molecular Diagnostics Symposium, University of Zurich, CH
American School of Classical studies, Athens, GR
SAA Annual Meeting, Albuquerque, US
Themenkonzert, Philharmonisches Staatsorchester, Hamburg, DE
Steinzeitliche Grenzerfahrungen, Landesmuseum Hannover, DE
Peopling History of Africa, University of Genf, CH
ISABS, Split, HR
EMBC, Heidelberg, 50th anniversary DE
Les maladies infectueuses dans l'Antiquité, École française de Rome, IT
ESEB, Turku, FI

2018

Warwick Medical School, UK
Alfred Krupp Wissenschaftskolleg, Greifswald, DE
Harvard University, Cambridge, US
BGI, Shenzhen, CN
DKFZ-ZMBH Allianz, Heidelberg, DE
Westfälisches Landesmuseum, Herne, DE
University of York, UK
Archäologisches Museum, Hamburg, DE

Deutsches Hygiene-Museum, Dresden, DE
SMBE, Yokohama, JP
Gordon Research Conference, Barcelona, ES
The Age of Humans in Europe, Stockholm, SE
Science Festival, Moscow, RU
Infectious Diseases in the 21st Century Conference, Jena, DE
16th Medical Biodefense Conference, Munich, DE
DSMZ, Braunschweig, DE
Katholische Akademie Bayern, Munich, DE
Musée de L'Homme, Paris, FR
DGfA Tagung, Jena, DE
DAI, Heidelberg, DE
The Lapedo Child Discovery – 20 Years Afterwards Conference, Leiria, PT

2017

National University of Galway, IE
SAA, Vancouver, CA
Junior-GBM, Jena, DE
Planetarium, Jena, DE
SMBE, Austin, US
Big Data in Biology and Health Conference, Hinxton, UK
Harvard University, Cambridge, US
World Health Summit, Berlin, DE
Museum für Archäologie, Herne, DE
18. Heidenheimer Archäologie-Colloquium, DE
International Science Festival, Heidelberg, DE
Stiftung Neanderthal Museum, Mettmann, DE
KinderUni, Gotha, DE
Human Evolution: Fossils, Ancient and Modern Genomes, Hinxton, UK
Max-Planck-Institut, Halle, DE
DKFZ-ZMBH Colloquium Series, Heidelberg, DE
ESHG, Copenhagen, DK
Friedrich-Löffler-Institut, Riems, DE
EHBEA, Paris, FR
HGM 2017 Conference, Barcelone, ES

2016

Kirche und Wissenschaft, München, DE
CARTA Symposium, San Diego, US
KinderUni, Weil, DE
Banbury Center, New York, US
Leopoldina, Berlin, DE
Heidelberger Akademie der Wissenschaften, DE
Technische Universität, Ilmenau, DE
Freie Universität, Berlin, DE
16th international Gene Forum 2016, Tartu, EE
Schule mit Wissenschaft, Erfurt, DE
SMBE Conference, Gold Coast, AU
Medical Genetics Summer School, Universität Tübingen, DE
URPP Evolution in Action, Rheinfelden, DE
ISBA7, Oxford, UK
Schloss Ringbach, Tegernsee, DE
Blumenbach Lecture, Georg-August-Universität Göttingen, DE
Wissenschaftsfestival an der MGU, Moscow, RU
Zoonosensymposium, Berlin
Göthe-Universität, Frankfurt, DE
Helmholtz-Vorlesung, Humboldt-Universität zu Berlin, DE

Zoonose Workshop, Gießen, DE

2015

Annual Conference of the Association for General and Applied Microbiology, Marburg, DE

12. Naturwissenschaftliches Forum der Academia Engiadina, Zurich, CH

Leiden University, NL

Society For General Microbiology Conference, Birmingham, UK

SMBE, Vienna, AT

Systems Biology of Infection symposium, Monte Verità, CH

Studium Generale, Groningen, NL

Genetic History: A Challenge to Historical and Archaeological Studies Conference, Berlin, DE

Albert-Ludwigs-Universität Freiburg, DE

List of publications

(Current as of September 2019. A continuously updated list of publications can be found at: www.shh.mpg.de/Johannes-Krause-Publications)

Total number	142
Peer reviewed	126
Books	2
Book chapters	4
H-Index	47 (Scopus)
	57 (Google Scholar)

2019

142. Spyrou, M. A., Keller, M., Tukhbatova, R. I., Nelson, E. A., Andrades Valtueña, A., Walker, D., Alterauge, A., Carty, N., Fetz, H., Gourvenec, M., Hartle, R., Henderson, M., von Heyking, K., Kacki, S., Knox, E. L., Later, C., Peters, J., Schreiber, J., Castex, D., Lösch, S., Harbeck, M., Herbig, A., Bos, K. I., & **Krause, J.** (2019). A phylogeography of the second plague pandemic revealed through the analysis of historical *Y. pestis* genomes. *Nature Communications*. doi: 10.1038/s41467-019-12154-0
141. Gretzinger, J., Molak, M., Reiter, E., Pfrengle, S., Urban, C., Neukamm, J., Blant, M., Conard, N. J., Cupillard, C., Dimitrijević, V., Drucker, D. G., Hofman-Kamińska, E., Kowalczyk, R., Krajcarz, M. T., Krajcarz, M., Münzel, S. C., Peresani, M., Romandini, M., Rufi, I., Soler, J., Terlato, G., **Krause, J.**, Bocherens, H., & Schuenemann, V. J. (2019). Large-scale mitogenomic analysis of the phylogeography of the Late Pleistocene cave bear. *Scientific Reports*, 9(1): 10700. doi:10.1038/s41598-019-47073-z.
140. Bos, K. I., Kühnert, D., Herbig, A., Esquivel Gomez, L. R., Andrades Valtueña, A., Barquera Lozano, R. J., Giffin, K., Lankapalli, A. K., Nelson, E. A., Sabin, S., Spyrou, M. A., & **Krause, J.** (2019). Paleomicrobiology: Diagnosis and Evolution of Ancient Pathogens. *Annual Review of Microbiology*, 73(1), 29.1-29.28. doi:10.1146/annurev-micro-090817-062436.
139. Ning, C., Wang, C.-C., Gao, S., Yang, Y., Zhang, X., Wu, X., Zhang, F., Nie, Z., Tang, Y., Robbeets, M., Ma, J., **Krause, J.**, & Cui, Y. (2019). *Ancient Genomes Reveal Yamnaya-Related Ancestry and a Potential Source of Indo-European Speakers in Iron Age Tianshan* (shh2307). doi:10.1016/j.cub.2019.06.044.
138. Peyrégne, S., Slon, V., Mafessoni, F., De Filippo, C., Hajdinjak, M., Nagel, S., Nickel, B., Essel, E., Le Cabec, A., Wehrberger, K., Conard, N. J., Kind, C. J., Posth, C., **Krause, J.**, Abrams, G., Bonjean, D., Modica, K. D., Toussaint, M., Kelso, J., Meyer, M., Pääbo, S., & Prüfer, K. (2019). Nuclear DNA from two early Neandertals reveals 80,000 years of genetic continuity in Europe. *Science Advances*, 5(6): eaaw5873. doi:10.1126/sciadv.aaw5873.
137. Keller, M., Spyrou, M. A., Scheib, C. L., Neumann, G., Kröpelin, A., Haas-Gebhard, B., Pääffgen, B., Haberstroh, J., Lacombe, A. R., Raynaud, C., Cessford, C., Durand, R., Stadler, P., Nägele, K., Bates, J. S., Trautmann, B., Inskip, S. A., Peters, J., Robb, J. E., Kivisild, T., Castex, D., McCormick,

- M., Bos, K. I., Harbeck, M., Herbig, A., & **Krause, J.** (2019). Ancient *Yersinia pestis* genomes from across Western Europe reveal early diversification during the First Pandemic (541–750). *Proceedings of the National Academy of Sciences of the United States of America*, 116(25), 12363-12372. doi:10.1073/pnas.1820447116.
136. Flegontov, P., Altınışık, N. E., Changmai, P., Rohland, N., Mallick, S., Adamski, N., Bolnick, D. A., Broomandkoshbacht, N., Candilio, F., Culleton, B. J., Flegontova, O., Friesen, T. M., Jeong, C., Harper, T. K., Keating, D., Kennett, D. J., Kim, A. M., Lamnidis, T. C., Lawson, A. M., Olalde, I., Oppenheimer, J., Potter, B. A., Raff, J., Sattler, R. A., Skoglund, P., Stewardson, K., Vajda, E. J., Vasilyev, S., Veselovskaya, E., O'Rourke, M. G. H. D. H., **Krause, J.**, Pinhasi, R., & Schiffels, S. (2019). Palaeo-Eskimo genetic ancestry and the peopling of Chukotka and North America. *Nature*, 570, 236-240. doi:10.1038/s41586-019-1251-y.
135. Jeong, C., Balanovsky, O., Lukianova, E., Kahbatkyzy, N., Flegontov, P., Zaporozhchenko, V., Immel, A., Wang, C.-C., Ixan, O., Khussainova, E., Bekmanov, B., Zaibert, V., Lavryashina, M., Pocheshkhova, E., Yusupov, Y., Agdzhoyan, A., Koshel, S., Bukin, A., Nymadawa, P., Turdikulova, S., Dalimova, D., Churnosov, M., Skhalyakho, R., Daragan, D., Bogunov, Y., Bogunova, A., Shtrunov, A., Dubova, N., Zhabagin, M., Yepiskoposyan, L., Churakov, V., Pislegin, N., Damba, L., Saroyants, L., Dibirova, K., Atramentova, L., Utevska, O., Idrisov, E., Kamenshchikova, E., Evseeva, I., Metspalu, M., Outram, A. K., Robbeets, M., Djansugurova, L., Balanovska, E., Schiffels, S., Haak, W., Reich, D., & **Krause, J.** (2019). The genetic history of admixture across inner Eurasia. *Nature Ecology & Evolution*, 3, 966-976. doi:10.1038/s41559-019-0878-2.
134. Siebke, I., Steuri, N., Furtwängler, A., Ramstein, M., Arenz, G., Hafner, A., **Krause, J.**, & Lössch, S. (2019). Who lived on the Swiss Plateau around 3300 BCE? Analyses of commingled human skeletal remains from the dolmen of Oberbipp. *International Journal of Osteoarchaeology*, oa.2791. doi:10.1002/oa.2791.
133. Villalba-Mouco, V., Loosdrecht, M. S. v. d., Posth, C., Mora, R., Martínez-Moreno, J., Rojo-Guerra, M., Salazar-García, D. C., Royo-Guillén, J. I., Kunst, M., Rougier, H., Crevecoeur, I., Arcusa-Magallón, H., Tejedor-Rodríguez, C., de Lagrán, I.-G.-M., Garrido-Pena, R., Alt, K. W., Jeong, C., Schiffels, S., Utrilla, P., **Krause, J.**, & Haak, W. (2019). Survival of Late Pleistocene Hunter-Gatherer ancestry in the Iberian Peninsula. *Current Biology*, 29(7), 1169-1177. doi:10.1016/j.cub.2019.02.006.
132. Posth, C., Nägele, K., Colleran, H., Valentin, F., Bedford, S., Gray, R. D., **Krause, J.**, & Powell, A. (2019). Response to "Ancient DNA and its contribution to understanding the human history of the Pacific Islands" (Bedford et al. 2018). *Archaeology in Oceania*, 54, 57-61. doi:10.1002/arco.5181.
131. Marcus, J. H., Posth, C., Ringbauer, H., Lai, L., Skeates, R., Sidore, C., Beckett, J., Furtwängler, A., Olivieri, A., Chiang, C., Al-Asadi, H., Dey, K., Joseph, T. A., Der Sarkissian, C., Radzeviciute, R., Gradoli, M. G., Haak, W., Reich, D., Schlessinger, D., Cucca, F., **Krause, J.**, & Novembre, J. (2019). Population history from the Neolithic to present on the Mediterranean island of Sardinia: an ancient DNA perspective. *bioRxiv*, 1-26. doi:10.1101/583104.
130. Feldman, M., Fernández-Domínguez, E., Reynolds, L., Baird, D., Pearson, J., Hershkovitz, I., May, H., Goring-Morris, N., Benz, M., Gresky, J., Bianco, R. A., Fairbairn, A., Mustafaoğlu, G., Stockhammer, P. W., Posth, C., Haak, W., Jeong, C., & **Krause, J.** (2019). Late Pleistocene human genome suggests a local origin for the first farmers of central Anatolia. *Nature Communications*, 10: 1218. doi:10.1038/s41467-019-09209-7.
129. Wißing, C., Rougier, H., Baumann, C., Comeyne, A., Crevecoeur, I., Drucker, D. G., Gaudzinski-Windheuser, S., Germonpré, M., Gómez-Olivencia, A., **Krause, J.**, Matthies, T., Naito, Y. I., Posth, C., Semal, P., Street, M., & Bocherens, H. (2019). Stable isotopes reveal patterns of diet and mobility in the last Neandertals and first modern humans in Europe. *Scientific Reports*, 9: 4433. doi:10.1038/s41598-019-41033-3.
128. **Krause, J.**, & Trappe, T. (2019). *Die Reise unserer Gene: Eine Geschichte über uns und unsere Vorfahren*. Berlin: Propyläen Verlag.
127. Wang, C.-C., Reinhold, S., Kalmykov, A., Wisgott, A., Brandt, G., Jeong, C., Cheronet, O., Ferry, M., Harney, E., Keating, D., Mallick, S., Rohland, N., Stewardson, K., Kantorovich, A. R., Maslov, V. E., Petrenko, V. G., Erikh, V. R., Atabiev, B. C., Magomedov, R. G., Kohl, P. L., Alt, K. W., Pichler, S. L., Gerling, C., Meller, H., Vardanyan, B., Yeganyan, L., Rezepkin, A. D., Mariaschk, D., Berezina, N., Gresky, J., Fuchs, K., Knipper, C., Schiffels, S., Balanovska, E., Balanovsky, O., Mathieson, I., Higham, T., Berezina, Y. B., Buzhilova, A., Trifonov, V., Pinhasi, R., Belinskij, A. B., Reich, D., Hansen, S., **Krause, J.**, & Haak, W. (2019). Ancient human genome-wide data from a 3000-year interval in the Caucasus corresponds with eco-geographic regions. *Nature Communications*, 10(1): 590. doi:10.1038/s41467-018-08220-8.

126. Spyrou, M. A., Bos, K. I., Herbig, A., & **Krause, J.** (2019). Ancient pathogen genomics as an emerging tool for infectious disease research. *Nature Reviews Genetics*, 20, 323-340. doi:10.1038/s41576-019-0119-1.
125. Feldman, M., Master, D. M., Bianco, R. A., Burri Promerová, M., Stockhammer, P. W., Mitnik, A., Aja, A. J., Jeong, C., & **Krause, J.** (2019). Ancient DNA sheds light on the genetic origins of early Iron Age Philistines. *Science Advances*, 5(7): eaax0061. doi:10.1126/sciadv.aax0061.
124. Hübler, R., Key, F. M., Warinner, C. G., Bos, K. I., Krause, J., & Herbig, A. (2019). HOPS: Automated detection and authentication of pathogen DNA in archaeological remains. *bioRxiv*.doi:10.1101/534198.

2018

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