

ADRIAN WRANGHAM BRIGGS

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Education

- 2005-present **Max Planck Institute for Evolutionary Anthropology**, Leipzig
PhD student with Professor Svante Pääbo.
- 2001-2004 Magdalen College, **University of Oxford**
BA Biological Sciences. Awarded 1st class honours.
- 1991-2001 **Bedford School**
GCSEs: 11 **A***s. A-levels: Biology **A**, Chemistry **A**, Physics **A**.

Academic awards

- 2005 Chosen by Professor Richard Dawkins, winner of the 2005 Alfred Toepfer Shakespeare Prize (Hamburg, Germany), to receive the Shakespeare Prize Scholarship.
- 2004 Winner of Harley prize for Plant Biology, for achieving the highest mark in the University cohort in the plants component of the examinations.
- 2002 Awarded scholarship to Magdalen College. Awarded Runner-up in Matthew Taylor Science Prize for highest achieving scientist in the college cohort.
- 2001 IBIOL Biology Olympiad: Winner of Gold medal (top 40 nationally), invited to second round.

Publications

Briggs, A.W., Stenzel, U., Meyer, M., Krause, J., Kircher, M., and Pääbo, S. Removal of deaminated cytosines and detection of *in vivo* methylation in ancient DNA. *Submitted*.

Briggs, A.W., Good, J.M., Green, R.E., Krause, J., Maricic, T., Stenzel, U., Lalueza-Fox, C., Rudan, P., Brajkovic, D., Kucan, Z., Gusic, I., Schmitz, R., Doronichev, V.B., Golovanova, L.V., de la Rasilla, M., Fortea, J., Rosas, A. and Pääbo, S (2009). Targeted retrieval and analysis of five Neandertal mtDNA genomes. *Science* 325, 318-321.

Briggs, A.W., Good, J.M., Green, R.E., Krause, J., Maricic, T., Stenzel, U., and Pääbo, S. (2009). Primer Extension Capture: targeted sequence retrieval from heavily degraded DNA sources. *JOVE* 31, <http://www.jove.com/index/Details.stp?ID=1573>, doi: 10.3791/1573

Briggs, A.W., Stenzel, U., Johnson, P.L., Green, R.E., Kelso, J., Prufer, K., Meyer, M., Krause, J., Ronan, M.T., Lachmann, M., and Pääbo, S. (2007). Patterns of damage in genomic DNA sequences from a Neandertal. *PNAS* 104, 14616-14621.

Green, R.E., **Briggs, A.W.**, Krause, J., Stenzel, U., Siebauer, M., Lachmann, M., and Pääbo, S. (2009). The Neandertal genome and ancient DNA authenticity. *EMBO J* 28, 2494 - 2502.

Green, R.E., Malaspina, A.S., Krause, J., **Briggs, A.W.**, Johnson, P.L., Uehler, C., Meyer, M., Good, J.M., Maricic, T., Stenzel, U., et al. (2008). A complete neandertal mitochondrial genome sequence determined by high-throughput sequencing. *Cell* 134, 416-426.

Krause, J., Unger, T., Nocon, A., Malaspinas, A.S., Kolokotronis, S.O., Stiller, M., Soibelzon, L., Spriggs, H., Dear, P.H., **Briggs, A.W.**, et al. (2008). Mitochondrial genomes reveal an explosive radiation of extinct and extant bears near the Miocene-Pliocene boundary. *BMC Evol Biol* 8, 220.

Meyer, M., **Briggs, A.W.**, Maricic, T., Hober, B., Hoffner, B., Krause, J., Weihmann, A., Pääbo, S., and Hofreiter, M. (2007). From micrograms to picograms: quantitative PCR reduces the material demands of high-throughput sequencing. *Nucleic Acids Res.* 35, e97.

Green, R.E., Krause, J., Ptak, S.E., **Briggs, A.W.**, Ronan, M.T., Simons, J.F., Du, L., Egholm, M., Rothberg, J.M., Paunovic, M., and Pääbo, S. (2006). Analysis of one million base pairs of Neanderthal DNA. *Nature* 444, 330-336.

Talks and courses

Conference Posters

Biology of Genomes meeting, May 2009, Cold Spring Harbor Laboratory, NY, USA.

Five complete Neandertal mtDNA genomes generated by Primer Extension Capture. **Briggs, A.W.**, Good, J.M., Green, R.E., Krause, J., Maricic, T., Stenzel, U., Lalueza-Fox, C., Rudan, P., Brajkovic, D., Kucan, Z., Gusic, I., Schmitz, R., Doronichev, V.B., Golovanova, L.V., de la Rasilla, M., Fortea, J., Rosas, A. and Pääbo, S.

Biology of Genomes meeting, May 2007, Cold Spring Harbor Laboratory, NY, USA.

Patterns of Ancient DNA Damage revealed by High-Throughput Sequencing of Pleistocene Organisms. **Briggs, A.W.**, Stenzel, U., Johnson, P.L.F., Green, R.E., Kelso, J., Prüfer, K., Meyer, M., Lachmann, M., and Pääbo, S.

Conference Talks

"A Neandertal Genome". 18 March 2009, *Cologne Spring Meeting 2009*, Physics Institute, Cologne, Germany.

"Targeted sequencing with high-throughput platforms". 10 March 2009, *Next Generation Sequencing Symposium*. Medical Faculty, University of Technology, Dresden, Germany.

"The Neandertal Genome Project". 5 December 2008, *Harvard Broad Symposium on the Scientific Study of the Human Past*, The Broad Institute at MIT and Harvard, Cambridge, MA, USA.

"The Neandertal Genome Project". 3 December 2008, *4th annual St. Jude Biomedical Research Symposium: "It's All About Genetics"*, St. Jude Children's Research Hospital, Memphis, TN, USA.

"Ancient DNA sequencing on 454". 9 November 2007, *Course in Advanced Sequencing Technologies & Applications*, Cold Spring Harbor Laboratory, NY, USA.

"Sequencing of Neandertal DNA". 30 April 2007, *The Challenges in High-Throughput DNA-Sequencing*, GSF-National Research Center for Environment and Health, Munich.

Courses

June 8-15, 2006 Student on the course "Next Generation Sequencing Technologies". Cold Spring Harbor Laboratory, NY, USA.

Teaching

November 9-16, 2007 Teaching Assistant on the course "Advanced Sequencing Technologies and Applications". Cold Spring Harbor Laboratory, NY, USA.

Additional scientific work experience

2005	Four months as research assistant at Purely Proteins plc., Cambridge, UK. I worked to produce high-purity human kinase proteins for commercial sale; this required PCR, gene cloning, bacterial cell culture, protein extraction and purification.
2004	Field Biologist, Fisheries Research Services, Scotland. Work (one month) involved surveying young salmonid populations around Scotland using electrofishing techniques, plus collection and flame analysis of water samples, and histological work with fish scales.
2004	3 weeks at Grand Cayman, Caribbean, assisting research funded by Simon Fraser University, British Columbia, into the health and population genetics of wild Southern stingrays.
2003-2004	3 month undergraduate research project: "The genetic relationships among nickel hyperaccumulating <i>Alyssum</i> species. The project involved the adaptation of protocols for plant DNA extraction and RAPD analysis to a novel genus.
1999	1 week at Harvard University, assisting laboratory research into the hormonal implications for dominance behaviour in wild male chimpanzees.

Other details

- Native English speaker, fluent in German.
- EU driving licence

Referees

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