

Wednesday 27. Aug. 2014**Lecture Hall 102**

8.30 - 10.00	Registration Registration Coffee	Foyer ground floor A - J Foyer 1st floor K - Z
--------------	----------------------------------------	---------------------------------------------------

Poster mounting

10.00 - 10.20	University, Organisation team	Welcome Vicerector Prof. Dr. M. Hoenen Welcome Dean Department Environmental Science, Head of IPAS Prof. Dr. Jörg Schibler Welcome Angela Schlumbaum
10.20 - 10.45	Terry Brown	21 years of biomolecular archaeology

Human populations CHAIR Wolfgang Haak

10.50 - 11.00	Maria A. Spyrou, Åshild J. Vågane, Luca Bondioli, Roberto Macchiarelli, Alessandra Sperduti, Kirsten I. Bos, Johannes Krause	Investigating the maternal lineage diversity from an early medieval site in Southern Italy
11.00 - 11.20	Anna Szécsényi-Nagy, Guido Brandt, János Jakucs, Balázs Gusztáv Mende, Eszter Bánffy, Kurt W. Alt	Ancient mitochondrial and Y chromosomal DNA reveals the western Carpathian Basin as a corridor of the Neolithic expansion
11.20 - 11.40	Helena Malmström, Anna Linderholm, Pontus Skoglund, Jan Storå, Per Sjödin, M Thomas P Gilbert, Gunilla Holmlund, Eske Willerslev, Mattias Jakobsson, Kerstin Lidén, Anders Götherström	Ancient mitochondrial DNA from the Northern fringe of the Neolithic farming expansion in Europe sheds light on the dispersion process
11.40 - 12.00	Karola Kirsanow, Anna Schulz, Adam Powell, Sandra Wilde, Amelie Scheu, Joachim Burger	The effect of demography and natural selection on pigmentation heterogeneity in late Pleistocene and early Holocene Europeans

12.00 - 14.00 Lunch**Landuse and management CHAIR Kerstin Lidén**

14.00 - 14.15	Amy K. Styring, Ursula Maier, Helmut Schlichtherle, Amy Bogaard	All for one or each household for itself? Isotopic variability in crop stores at Hornstaad Hörnle IA, Germany
14.15 - 14.30	Claudia Gerling, Thomas Doppler, Volker Heyd, Corina Knipper, Moritz F. Lehmann, Alistair W. G. Pike, Jörg Schibler	Land-use and animal management in the Neolithic: Multi-isotope analyses on faunal remains from Alpine lakeshore settlements
14.30 - 14.45	Angelos Hadjikoimis, Jean-Denis Vigne, Alan Simmons, Jean Guilaine, Joël Ughetto-Monfrin, Denis Fiorillo, Marie Balasse	Sheep and goat seasonality of birth in Pre-Pottery Neolithic Cyprus: an isotopic and ethnozoarchaeological approach
14.45 - 15.00	Jason E. Laffoon, Gareth R. Davies, Corinne L. Hofman	Investigating animal resource acquisition and exchange in the precolonial Circum-Caribbean with multiple isotope analyses

15.00 - 15.40 Poster presentations Posters 1 -17 CHAIR Sandra Pichler**15.40 - 16.20 Coffee break**

Domestic animals CHAIR Arne Ludwig

16.20 - 16.40	Arne Ludwig	Genetic reasons for the decline of body size in early domestics
16.40 - 17.00	Hákon Jónsson, Mikkel Schubert, Dan Chang, Andaine Seguin-Orlando, Aurélien Ginolhac, Clio Der Sarkissian, Luca Ermini, Anders Albrechtsen, Bent Petersen, Isabelle Dupanloup, Adrien Foucal, Matteo Fumagalli, Lillian Petersen, Julia T. Vilstrup, Maanasa Raghavan, Thorfinn S. Korneliussen, Amhed M.V. Velazquez, Jesper Stenderup, Teri Lear, Jennifer Myka, Judith Lundquist, Donald C. Miller, Julia Stagegaard, Günter Strauss, Mads F. Bertelsen, Cindi A. Hoover, Calle J. Rubin, Ahmed H. Alfarhan, Saleh A. Alquraishi, Khaled A.S. Al-Rasheid, David E. MacHugh, Ted Kalbfleish, James N. MacLeod, Edward M Rubin, Thomas Sicheritz-Ponten, Douglas F. Antczak, Ernest Bailey, Leif Andersson, Tomas Marques-Bonet, Michael Hofreiter, M Thomas P. Gilbert, Laurent Excoffier, Rasmus Nielsen, Beth Shapiro, Eske Willerslev, Ludovic Orlando	The genomics of equine speciation and domestication
17.00 - 17.10	Clio Der Sarkissian, Luca Ermini, Mikkel Schubert, Hákon Jónsson, Aurélien Ginolhac, Cristina Gamba, Antoine Fagès, Anders Albrechtsen, Filipe G. Vieira, Bent Petersen, Gila Kahila Bar-Gal, Charles L. Greenblatt, Stefan Rieder, Tosso Leeb, Molly McCue, Waltraut Zimmermann, Renate Schafberg, Alexei Tikhonov, Oliver Ryder, Eske Willerslev, Ludovic Orlando	A Museomic Perspective on the Conservation of Przewalski's Horses.
17.10 - 17.30	Michela Leonardi, Andrea Manica, Joachim Burger	Ancient population genetics: new insights on horse domestication
17.30 - 17.50	Svensson E.M., Häslér S., Nussbaumer M., Rehazek A., Omrak A., Götherström A, Davis S.J.M, Albarella U., Detry C., Pires A.E., Ginja C., McGrory S., Mulville J., Powell A.J., Collins M.J., O'Connor T.P., Vretemark M. , Storå J., Tell Dahl Y.	Combining morphology and genetics for increased understanding of ancient cattle husbandry.
17.50 - 18.00	Hans Ahlgren	Multiple prehistoric introductions of mountain hare (<i>Lepus timidus</i>) to a remote island as revealed by ancient DNA
18.00 - 18.05	Ophélie Lebrasseur, Liisa Loog, Greger Larson	The extent of modern mitochondrial DNA in reconstructing dog domestication and early history
18.05 - 18.10	Michael G. Campana, Nelly M. Robles García, Noreen Tuross	Multiple Origins of Cultivated Mexican Cochineal

19.00 - 21.00 Welcome Reception Wildt'sches Haus

Thursday 28. Aug. 2014

Lecture Hall 001

ancient DNA, practical approaches CHAIR Eva-Maria Geigl

9.00 - 9.20	Dáithí C. Murray, Alicia Greal, Joe Dortch, James Haile, Nicole White, Gavin Prideaux & Michael Bunce
9.20 - 9.35	M. Pruvost, J. Daligault, S. Guimaraes, N. Côté, T. Grange, E.-M. Geigl
9.35 - 9.45	Cecilia Anderung , Jelena Rajkov, Vicki Szabo, Ramona Harrison , Thomas McGovern, Konrad Smiarowski, James Woollett & Thomas G. Dahlgren
9.45 - 9.52	Hiromi Matsumae, Takashi Gakuhari, Takafumi Katsumura, Ryan Schmidt, Kae Koganabuchi & Hiroki Oota.
9.52 - 10.12	Diyendo Massilani, Ethan Andrew Bennett, Eva-Maria. Geigl, Thierry Grange.

10.12 - 10.20 Discussion

10.20 - 11.00 Coffee break

Genomes and analytical tools CHAIR Ludovic Orlando

11.00 - 11.10	Niall O'Sullivan, Frank Maixner, Matthew Teasdale, Ron Pinhasi, Daniel Bradley & Albert Zink
11.10 - 11.30	Martyna Molak
11.30 - 11.50	Melinda A. Yang and M. Slatkin
11.50 - 12.10	Fajkošová Z, Sell C, Blöcher J, Scheu A, Kirsanow K, Burger J
12.10 - 12.30	Ermini L., Der Sarkissian C., Jónsson H., Alekseev AN, Crubezy E., Shapiro B., Orlando L.
12.30 - 12.45	Mikkel Schubert, Luca Ermini, Clio Der Sarkissian, Hákon Jónsson, Aurélien Ginolhac, Robert Schaefer, Michael D Martin, Ruth Fernández, Martin Kircher, Molly McCue, Eske Willerslev, Ludovic Orlando
12.45 - 13.00	Alexander Peltzer, Günter Jäger, Kay Nieselt and Johannes Krause

13.00 - 15.00 Lunch

Scrapheap Challenge: A bulk-bone metabarcoding and NGS method to investigate aDNA in faunal assemblages

aMPlex Torrent: a powerful and economical approach to study past biodiversity

Using DNA barcoding for species identification of archaeological cetacean remains: limitations and possibilities

Challenges to Ancient DNA Analysis in Japan: bioarcheological remains from high temperature, high humidity and an acidic soil environment

Library construction for ancient genomics: what's best?

Species identification and analysis of the Tyrolean Iceman's clothes using next generation sequencing of ancient DNA.

On the importance of proper dating. Using the age of ancient DNA sequences in population history analyses

Using projection analysis to compare ancient genomes to present day populations

Filter and variant call comparison on high to low coverage ancient nuclear data

Microbial metagenomics of archaeological remains - tapping into the unseen majority

Characterizing ancient and modern genomes with PALEOMIX

EAGER - Efficient Ancient Genome Reconstruction

Genomes and analytical tools CHAIR Ludovic Orlando

15.00 - 15.15	Liisa Loog, Mirna McTighe, Mark G. Thomas	A METHOD FOR EXPLORING PAST MIGRATIONS USING BIOLOGICAL OR CULTURAL VARIATION DATA
15.15 - 15.30	James Haile, Alicia Greal, Kristina Douglass, Giff Miller, Charlotte Oskam, Mike Bunce	Eggshells: Genetic and Biochemical Information Encapsulated

15.30 - 15.40 Discussion

15.40 - 16.20 Poster presentations in Lecture Hall **102: Posters 18 - 36 CHAIR Sandra Pichler**

16.20 - 17.00 coffee break

Migration and methods isotopes CHAIR Matthew Collins

17.00 -17.20	Jane A. Evans	The application of Pb isotope composition to human migration studies
17.20 - 17.40	Markus Mauder, Eirini Ntoutsis, Gisela Grupe and Peer Kröger	Empirically exploring the effect of oxygen on the isotopic mapping of cremated and uncremated bones of a Central European Alpine passage.
17.40 - 17.50	Andrew R Millard, Rebecca Redfern, Victoria Ridgeway, Lucie Johnson & Darren R Gröcke	Detection of African migrants in Roman London
17.50 -18.00	Angela L. Lamb, Ryan Metcalfe, Jenefer Cockitt	An Ideal Solution? Optimising pretreatment methods for the isotope analysis of mummified ancient Egyptian tissues
18.00 - 18.10	Vaiglova, Petra; Snoeck, Christophe; Nitsch, Erika; Bogaard, Amy; Lee-Thorp, Julia	Preparing charred plant remains for stable isotope analysis

Discussion

Thursday 28. Aug. 2014

Lecture Hall 102

Proteins CHAIR Enrico Cappellini

9.00 - 9.10	Cappellini, E.	Ancient protein investigation provides evidence of tissue- and developmental phase-specific gene expression
9.10 - 9.30	Frido Welker, Ross MacPhee, Ian Barnes, Enrico Cappellini, Jean-Jacques Hublin, Matthew Collins	Authentication of de novo MS/MS collagen sequencing of archaeological and modern samples.
9.30 - 9.50	M. Buckley	Zooarchaeology by Mass Spectrometry (ZooMS) and Palaeoproteomics: Exploring the limits
9.50 - 10.00	J P Simpson, J Thomas-Oates, J Wilson, KEH Penkman, M J Collins	Investigating the relationship between age and protein degradation in archaeological bone.
10.00 - 10.10	Ashley Coutu	ON THE TRAIL OF IVORY: MAPPING TRADE IN EARLY IRON AGE SOUTHERN AFRICA
10.10 - 10.20	Warinner C, <u>Hendy J</u> , Cappellini E, Fischer R, Trachsel C, Arneborg J, Lynnerup N, Craig OE, Swallow DM, Fotakis A, Christensen RJ, Olsen J, Liebert A, Montalva N, Fiddymment S, Mackie M, Canci A, Bouwman A, Rühli F, Gilbert MTP, Collins MJ	Direct evidence of milk consumption from ancient dental calculus

10.20 - 11.00 Coffee break

Lipids, diet, funerals CHAIR Lucy Cramp

11.00 - 11.20	Oliver E. Craig; Alexandre Lucquin; Yastami Nishida; Kevin Gibbs; Junzo Uchiyama; Carl Heron; Peter Jordan; Sven Isaksson	Early evidence for the use of pottery: extending the ancient lipid record to the Pleistocene.
11.20 - 11.40	Farrell, T.F.G., Colonese, A.C., Lucquin, A., Firth, D., Robson, H., Charlton, S., Alexander, M., Craig, O.E.	Revisiting Archaeological Bone Lipids as Dietary Markers
11.40 - 12.00	Spangenberg, J. E. , Lantos, I. , Giovannetti, M. A. , Ratto, N. , Maier, M. S.	Microscopic, molecular and isotopic analyses of organic residues in pottery from west Tinogasta (Catamarca, Argentina) - Evidence for maize consumption in pre-Hispanic south-central Andes
12.00 - 12.20	Sven Isaksson, Gunilla Eriksson, Rachel Howcroft, Petter Dyreng, Caroline Enmyren, Per Andersson, Ottilia Carlsson, Elke Schweda & Kerstin Lidén	Whey to go – first identification of lactose in prehistoric pottery
12.20 - 12.30	Vasiliki Papakosta	Use of the earliest pottery on the Western and Eastern side of the Baltic
12.30 - 12.40	Jan Baeten, Koen Deforce, Sophie Challe, Dirk De Vos, Patrick Degryse	Holy smokes in medieval funerary rites: chemical fingerprints of frankincense in southern Belgian incense burners
12.40 - 12.50	Rhea Brettell, Ben Stern <u>Carl Heron</u>	Unusual molecules in unusual places: Organic substances and mortuary rites in Roman Britain

12.50 - 13.00

Discussion

13.00 - 15.00 Lunch

Wild animals Evolution CHAIR Ian Barnes

15.00 - 15.10	Alexander Immel, Dorothée G. Drucker , Tina K. Jahnke, Susanne C. Münzel, Verena J. Schünemann, Marion Bonazzi, Alexander Herbig, Claus-Joachim Kind, Johannes Krause	A complete mitochondrial Genome of the Giant Deer
15.10 - 15.20	Ross Barnett, Lisandra Zepeda, Simon Y. W. Ho, Grant Zazula, Nobuyuki Yamaguchi, Greger Larson, Tom Gilbert	What is the cave lion: Population, subspecies or species?
15.20 - 15.30	Eleftheria Palkopoulou & Love Dalén	Changes in genetic diversity and the extinction of the woolly mammoth
15.30 - 15.40	Selina Brace, Jessica Thomas, Ross McPhee, Sam Turvey, Ian Barnes	Genomic Analyses of the Caribbean Mammal Fauna

15.40 - 16.20 Posterpresentations in Lecture Hall 102: Posters 18 -36 CHAIR Sandra Pichler

16.20 - 17.00 Coffee break

Plant archaeogenetics CHAIR Logan Kistler

17.00 - 17.05	Nathan Wales	Insights on aDNA preservation in desiccated plant remains
17.05 - 17.10	Matti W Leino, Nils Forsberg, Hugo R. Oliveria and Jenny Hagenblad	Phylogeography of landrace crops assessing extant, historical and archaeological material
17.10 -17.15	Diane L. Lister, Huw Jones, James Cockram & Martin K. Jones	Analysis of DNA polymorphisms in historic and ancient plant DNA using the KASP SNP genotyping platform
17.20 - 17.40	Oliver Smith, Alan J. Clapham, Pam Rose, Yuan Liu, Jun Wang & Robin G. Allaby	Infection, methylation and breakdown: reconstructing in vivo stress responses and diagenetic demethylation in archaeological barley using aDNA and aRNA
17.40 - 18.00	Rute R. da Fonseca, Bruce D. Smith, Nathan Wales, Enrico Cappellini, Pontus Skoglund, Matteo Fumagalli, José Alfredo Samaniego, Christian Carøe, María C. Ávila-Arcos, David E. Hufnagel, Thorfinn Sand Korneliussen, Filipe Garrett Vieira, Mattias Jakobsson, Bernardo Arriaza, Eske Willerslev, Rasmus Nielsen, Matthew B. Hufford, Anders Albrechtsen, Jeffrey Ross-Ibarra, M. Thomas P. Gilbert	The origin and evolution of maize from the Southwest of the USA

18.00 - 18.10 Discussion

Friday 29.Aug 2014

Diet by isotopes CHAIR Jane Evans

9.00 - 9.20	Mora, A., Arriaza, Bernardo T., Standen, Vivien G. & Smith, C.
9.20 - 9.40	Maria Lahtinen, Janet Montgomery, Darren Gröcke and Peter Rowley-Conwy
9.40 - 9.50	Yi Guo, Guowen Zhang, Boya Yu, Yanfang Dong, Guoping Sun, and Michael P. Richards
9.50 - 10.10	Zhang Guowen, Jiang Leping, Hu Yaowu, Michael P. Richards, Guo Yi
10.10 - 10.20	Shinya SHODA, Minoru YONEDA, Hiroo NASU, Geon-Ju NA & Sung-Mo AHN

10.20 - 11.00 Coffee break

Pathogens CHAIR Terry Brown

11.00 - 11.20	Alexander Herbig , Kirsten I. Bos, Kelly M. Harkins, Jane E. Buikstra, Sebastien Gagneux, Anne C. Stone, and Johannes Krause	Pre-Columbian Mycobacterial Genomes Reveal Seals as a Source of New World Human Tuberculosis
11.20 - 11.40	Christos Economou, Anna Kjellström, Kerstin Lidén, Ioannis Panagopoulos.	Leprosy in medieval Scandinavia. aDNA studies on pathogen and host immune system.
11.40 - 12.00	Abigail Bouwman, Christina Warinner, Natallia Shved, Gülfirde Akgül, Frank Rühli	HISTORIC CCR5Δ32 FREQUENCIES IN CENTRAL EUROPE
12.00 - 12.20	Martin Jensen Søre, Peter Nejsun, Brian Lund Fredensborg, Kurt Kjær, Christian Moliin Outzen Kapel	Ancient DNA typing of parasite eggs from environmental samples identify human and animal worm infections in Viking-age settlement
12.20 - 12.25	Åshild J. Vågane, Kirsten I. Bos, Günter Jäger, Kay Nieselt, Johannes Krause	A capture based approach for ancient pathogen screening
12.25 - 12.30	Verena J. Schuenemann, Alexander Herbig, G. Michael Taylor, Pushpendra Singh, Stewart T. Cole, Sarah Inskip, Simon Mays, Sonia Zakrzewski, Johannes Krause	Novel insights into the evolutionary history of leprosy from an early medieval Mycobacterium leprae genome
12.30 - 12.35	Feldman, Michal; Schuenemann, Verena; Herbig, Alexander; Hershkovitz, Israel; Krause, Johannes	Mycobacteria diversity in early farmer remains from the near eastern site of Atlit-Yam

12.35 - 12.45

Discussion

12.50 - 13.50 Lunch at Venue

Lecture Hall 102

Compound-specific carbon isotope analysis of keratin amino acids by LC/IRMS: a case study of Chilean mummies

Biomolecular evidence for environmental adaptation in Medieval Iin Hamina, Northern Finland

Preliminary stable isotopic palaeodietary study of humans and fauna from Tianluoshan Site of Hemudu Culture in China

Carbon and Nitrogen isotopic analysis on human and animal bones of Tashan site, Zhejiang Province, China

Nitrogen and Carbon stable isotope analysis on the carbonized grains from the pre and proto-hisotric sites in Korea

Human history - genomes CHAIR Michael Knapp

13.50 - 14.00	Phillip Endicott	The geographical distribution of the Polynesian cultural complex and its association with P33-C2a1 Y chromosomes: adding data from Aotearoa (New Zealand)
14.00 - 14.10	C. Posth, C. Wißing, K. Kitagawa, K. Wehrberger, N. Conard, C. J. Kind, H. Bocherens and J. Krause	Interdisciplinary investigation of an archaic hominin femur from the Swabian Jura (South-West Germany)
14.10 - 14.20	Peter de Barros Damgaard, Hannes Schroeder, Cristina Valdiosera, Morten E. Allentoft, Eske Willerslev	Rare South American mitochondrial haplogroup in a c. 5,000-year-old mummy from Chile
14.20 - 14.40	Torsten Günther, Cristina Valdiosera, Helena Malmström, Irene Ureña, Ricardo Rodriguez, Óddny Sverrisdóttir, Evangelia A. Daskalaki, Pontus Skoglund, Eneko Iriarte Avilés, Juan Luis Arsuaga, José Miguel Carretero, Anders Götherström, Mattias Jakobsson	Tracing the genetic history of farming populations of El Portalón Cave in the Sierra de Atapuerca, Spain.
14.40 - 15.00	Johannes Krause, Iosif Lazaridis, Nick Patterson, Alissa Mittnik and David Reich and the Ancient Human Genomes Consortium	Ancient human genomes suggest three ancestral populations for present-day Europeans
15.00 - 15.40	coffee break	
15.40 - 16.00	Wolfgang Haak, Iosif Lazaridis, Guido Brandt, Anna Szécsényi-Nagy, Nick Patterson, Nadin Rohland, Swapan Mallick, Bastien Llamas, Christina Roth, Susanne Nordenfelt, Eadaoin Harney, Harald Meller, Kurt W. Alt, Alan Cooper, David Reich	Ancient DNA from Early Neolithic farmers in Europe
16.00 - 16.20	Pontus Skoglund, Helena Malmström, Ayça Omrak, Maanasa Raghavan, Cristina Valdiosera, Torsten Günther, Per Hall, Kristiina Tambets, Jüri Parik, Karl-Göran Sjögren, Jan Apel, Eske Willerslev, Jan Storå, Anders Götherström, Mattias Jakobsson	Genomic diversity and admixture in Stone-Age farmer and hunter-gatherer groups in Scandinavia
16.20 - 16.40	Maanasa Raghavan, Michael DeGiorgio, Anders Albrechtsen, Ida Moltke, Pontus Skoglund, Thorfinn S. Korneliussen, Bjarne Grønnow, Martin Appelt, Hans Christian Gulløv, T. Max Friesen, William Fitzhugh, Helena Malmström, Simon Rasmussen, Jesper Olsen, Linea Melchior, Benjamin T. Fuller, Simon M. Fahrni, Thomas Stafford Jr., Vaughan Grimes, M.A. Priscilla Renouf, Jerome Cybulski, Niels Lynnerup, Marta Mirazon Lahr, Kate Britton, Rick Knecht, Jette Arneborg, Mait Metspalu, Omar E. Cornejo, Anna-Sapfo Malaspinas, Yong Wang, Morten Rasmussen, Vibha Raghavan, Thomas V.O. Hansen, Elza Khusnutdinova, Tracey Pierre, Kirill Dneprovsky, Claus Andreasen, Hans Lange, M. Geoffrey Hayes, Joan Coltrain, Victor A. Spitsyn, Anders Götherström, Ludovic Orlando, Toomas Kivisild, Richard Villems, Michael H. Crawford, Finn C. Nielsen, Jørgen Dissing, Jan Heinemeier, Morten Meldgaard, Carlos Bustamante, Dennis H. O'Rourke, Mattias Jakobsson, M. Thomas P. Gilbert, Rasmus Nielsen, and Eske Willerslev	Ancient DNA reveals the complex genetic history of the New World Arctic
16.40 - 17.00	Greger Larson, Hannah Ryan, Richard Allen, Anna Linderholm, Ophelie Lebrasseur, Alexandra Trink, Liisa Loog, Ross Barnett, Charlotte King	A prediction of the hybridisation potential between Hominin species using mitochondrial DNA
17.00 - ca.17.3	Organisation team	Last words and Next meeting
20.00	Symposium Dinner coipso	