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*The UC San Diego/Salk Center for Academic Research and Training in Anthropogeny (CARTA) is a transdisciplinary collaboration of global experts whose mission is "to explore and explain the origins of the human phenomenon."*

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**Have a question for today's speakers?**

Please hand this detachable question card to a CARTA representative.

Additional question cards are available in the lobby.

**Thank you for taking part in this CARTA symposium!**

**UPCOMING CARTA SYMPOSIA**

**BODY MODIFICATION: ANATOMY, ALTERATION, AND ART IN ANTHROPOGENY**  
*(virtual)*

Friday, February 9, 2024

**LUCY 50TH ANNIVERSARY SYMPOSIUM: THE IMPACT OF "LUCY" ON HUMAN ORIGINS SCIENCE**  
*(virtual)*

Saturday, April 6, 2024

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A CARTA PUBLIC SYMPOSIUM

# COMPARATIVE



# ANTHROPOGENY

AND OTHER APPROACHES TO HUMAN ORIGINS

FRIDAY, NOVEMBER 3, 2023 • 1:00 TO 5:30 PM (PACIFIC)

CONRAD T. PREBYS AUDITORIUM, SALK INSTITUTE

**SYMPOSIUM CO-CHAIRS**

**PASCAL GAGNEUX** (UNIVERSITY OF CALIFORNIA SAN DIEGO)  
**CAROL MARCHETTO** (UNIVERSITY OF CALIFORNIA SAN DIEGO)



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**1:00 pm** **Welcome**  
Gerald Joyce, CARTA co-director; President, Salk Institute

**SESSION I - Chaired by Pascal Gagneux**

**1:05 pm** **Opening remarks**  
Pascal Gagneux, CARTA executive co-director;  
University of California San Diego

**1:10 pm** **A weakly structured stem for our origins in Africa**  
Brenna Henn, University of California Davis

**1:30 pm** **Delayed neuronal maturation in humans**  
Carol Marchetto, CARTA internal advisor;  
University of California San Diego

**1:50 pm** **Digging with documents: Ethnology as a tool for understanding human evolution**  
Mark Collard, Simon Fraser University, British Columbia

**2:10 pm** **Social complexity: Why modern humans are more like certain ants than chimpanzees**  
Mark Moffett, Smithsonian Institution

**2:30 pm** **How special are our Neanderthal genes? A look at archaic introgression.**  
Andrew Schork, Copenhagen University Hospital

**2:50 pm** **30-Minute BREAK**

**SESSION II - Chaired by Carol Marchetto**

**3:20 pm** **Life elevated: Insight into human-specific adaptations to high altitude**  
Tatum Simonson, University of California San Diego

**3:40 pm** **Did humans evolve concealed ovulation?**  
Pascal Gagneux, CARTA executive co-director;  
University of California San Diego

**4:00 pm** **The evolution of shorter inter-birth intervals in humans**  
Corinna Most, Iowa State University; Uaso Ngiro Baboon Project

**4:20 pm** **Language: Uniqueness out of the ordinary**  
Eva Wittenberg, Central European University, Vienna

**4:40 pm** **Wrap-up**  
Carol Marchetto, CARTA internal advisor;  
University of California San Diego

**4:45 pm** **Question and answer session**

**5:25 pm** **Closing remarks**  
Gerald Joyce, CARTA co-director; President, Salk Institute

**BIOGRAPHICAL SKETCHES**



**Brenna Henn** is a population geneticist in the Department of Anthropology and in the Genome Center at the University of California Davis. She began her research by studying the deep population structure and complex migration patterns of African hunter-gatherer groups. Motivated by her Ph.D. training in anthropology, she aims to approach questions of genomic and phenotypic diversity from an interdisciplinary standpoint.



**Carol Marchetto (co-chair)** is a CARTA internal advisor and assistant professor of anthropology at University of California San Diego. She studies the cellular behavior of human neurons in neurodevelopmental conditions. Marchetto also studies human brain expansion and neuronal development, as well as the role of disruptions to human-specific cellular and molecular signatures in development and mental health.



**Mark Collard** is the Canada Research Chair in Human Evolutionary Studies at Simon Fraser University in Canada. Collard's research spans archaeology and biological anthropology. He has worked with many different types of data from a wide range of time periods and regions, including hominin fossils, Neolithic pottery, and behavior of living humans.



**Mark Moffett** is a research associate at the National Museum of Natural History, Smithsonian Institution. His research focuses on the evolution and social organization of ant species, the evolution of societies, and the structure of rainforest canopies. Currently, Moffett is studying the stability of enduring social groups across the vertebrate animals. He is the author of *The Human Swarm: How Our Societies Arise, Thrive, and Fall* (Basic Books, 2019).



**Andrew Schork** is a research leader at the Institute of Biological Psychiatry, Copenhagen University Hospital. He is a human geneticist who has special expertise in mapping and describing the genetic contributions to complex human traits and diseases, especially psychiatric outcomes.



**Tatum Simonson** is an associate professor and the John B. West Endowed Chair in Respiratory Physiology in the Division of Pulmonary, Critical Care, Sleep Medicine, and Physiology at the University of California San Diego School of Medicine. Simonson applies integrative physiological genomics approaches to understand systems-level responses to hypoxia in highland populations. Her research provides evidence for genetic adaptations to high altitude.



**Pascal Gagneux (co-chair)** is CARTA's executive co-director and a professor of pathology and anthropology at the University of California San Diego. He is interested in the evolutionary mechanisms responsible for generating and maintaining primate molecular diversity. The Gagneux Laboratory studies cell-surface and extra-cellular molecules, called glycans, in closely related primates species.



**Corinna Most** is an assistant professor in the Department of Ecology, Evolution, and Organismal Biology at Iowa State University. She is also the co-director of the Uaso Ngiro Baboon Project in Kenya. Most researches the ontogeny of social competence and long-term effects of ecological changes on behavior and reproduction in wild olive baboons (*Papio anubis*). She is interested in the origins, evolution, and development of social cognition.



**Eva Wittenberg** is an associate professor in the Department of Cognitive Science at the Central European University in Vienna, Austria. Wittenberg's research is to understand the architecture of the language system within cognition, particularly the interaction of grammar, meaning, and broader cognitive processes. This includes how linguistic structure maps onto conceptual structure, and how this mapping came to be.



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Speaker to whom your question is directed:

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