

American Association of Biological Anthropologists, 2022 Online Program, Scientific Sessions (March 28 through April 1)

Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
Symposium: Building on the legacy of Adolf Portmann: Interdisciplinary approaches to human evolution and development					
28-Mar	Monday	9:00	11:00	Rethinking Portmann's legacy in comparative physiological light: The case of altricial-precocial divergence	ANDRES KURISMAA ¹ and FILIP JAROÅ ²
				The Endurance Loading Hypothesis: How the necessity of carrying babies shaped human locomotor morphology	CARA M. WALL-SCHEFFLER
				Evolved to be special: Portmann's concept of human uniqueness	FILIP JAROÅ
				The pelvis is neither geometrically similar nor allometrically constrained: Evidence from a wide range of human populations	HELEN K. KURKI ¹ and CARA M. WALL-SCHEFFLER ²
				Sociality in a vulnerable primate: broken bones, birth and bipedalism	JEREMY M. DESILVA ^{1,2} and CATHERINE K. MILLER ^{1,2}
				Does adaptive variability in maternal skeletal dimensions shape gestation length?	JONATHAN C. WELLS
				The biocultural fetus: internalizing Portmann's "Social Womb"	JULIENNE N. RUTHERFORD
				Lessons from Portmann on the benefits of human infant helplessness	KAREN R. ROSENBERG
				Integrating biological anthropology in perinatal clinical care and postpartum support	KRISTIN P. TULLY and ALISON M. STUEBE
				Human gestation length: is it truncated?	MARTIN HAEUSLER ¹ , NICOLE D.S. GRUNSTRA ^{2,3,4} , ROBERT D. MARTIN ^{1,5} and NICOLE M. WEBB ^{1,6}
				Secondarily derived altriciality in humans: the conceptual contributions of Portmann to the Obstetrical Dilemma	NICOLE D.S. GRUNSTRA ^{1,2,3} , NICOLE M. WEBB ^{4,5} , ROBERT D. MARTIN ^{5,6} and MARTIN HAEUSLER ⁵
				Allometric Scaling: A 50-Year Retrospective	ROBERT D. MARTIN ^{1,2} , ANN M. MACLARNON ³ and KARIN ISLER ⁴
				Responses to the Human Infant's Extreme Neurological Immaturity and What That Really Looks Like: A <i>Consilience</i> of Integrative Research Validating Aldoph Portmann's Prophetic Observations	WENDA R. TREVATHAN ¹ and JAMES J. MCKENNA ^{2,3}
Neandertal newborn noggins & Portmann's Secondary Altriciality	ZACHARY COFRAN ¹ and JEREMY M. DESILVA ²				
Paleoanthropology: Behavior and Cognition					
28-Mar	Monday	10:00	11:00	Is there an energetic threshold during pregnancy?	CĂDRIC CORDEY ¹ , NICOLE M. WEBB ^{1,2,3} and MARTIN HAEUSLER ¹
				(Wo)man the hunter: The Physiological Evidence Ignored	CARA OCOBOCK ¹ and SARAH LACY ²
				Conjuring the dead: Using ancient DNA analysis to understand human artistic endeavors	DANALAXSHMI S. GANAPATHEE
				Evolution of cognitive traits in the hominin clade: a paleoneurological approach	FABIO MACCIARDI ¹ , ALESSIO BOATTINI ² , GIORGIA MODENINI ² and FABIO MARTINI ³
				New insights into the evolution of hominin thumb dexterity	FOTIOS ALEXANDROS KARAKOSTIS ^{1,2} , DANIEL HAEUFLE ^{3,4} , IOANNA ANASTOPOULOU ⁵ , KONSTANTINOS MORAITIS ⁵ , GERHARD HOTZ ⁶ , VANGELIS TOURLOUKIS ¹ and KATERINA HARVATI ^{1,2}
Entheasal patterns suggest habitual tool use in early hominins	JANA KUNZE ¹ , FOTIOS ALEXANDROS KARAKOSTIS ² , STEFAN MERKER ³ , MARCO PERESANI ^{4,5} , GERHARD HOTZ ^{6,7} , VANGELIS TOURLOUKIS ¹ and KATERINA HARVATI ^{1,2}				

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
				The evolution of cumulative culture in the hominin lineage	JONATHAN PAIGE ^{1,2,3} and CHARLES PERREAU ^{2,3}
				(Wo)man the hunter: The Archaeological Evidence Ignored	SARAH A. LACY ¹ and CARA OCOBOCK ^{2,3}
				Dmanisi, Malapa, and the Evolution of Broca's Language Area	SHAWN D. HURST ¹ , RALPH L. HOLLOWAY ² , ALANNAH PEARSON ³ , GRACE BOCKO ¹ , HEATHER M. GARVIN ⁴ , LEE R. BERGER ⁵ and JOHN HAWKS ⁶
				The Bioarchaeology of Violence during the Yayoi Period in Western Japan	BRIAN D. PADGETT ^{1,2} and NORIKO SEGUCHI ^{3,4}
				Surgery before sedentism: Probable trepanation during the early prehistoric period in southeastern north america	DIANA S. SIMPSON
				The Demography of Violence: Patterns of Interpersonal Violence in a Middle Bronze Age Population from Northeastern Serbia	KATHERINE M. POMPEANI
28-Mar	Monday	11:00	12:00	Early humans in South America: First direct radiocarbon dating and morphometric study of "Zuzu" (Serra da Capivara, Brazil)	LUMILA P. MENÉNDZ ^{1,2} , MARÍA CLARA LÓPEZ-SOSA ¹ , SERGIO FRANCISCO SERAFIM MONTEIRO DA SILVA ³ , GABRIELA MARTIN ^{4,5} , ANNE-MARIE PESSIS ^{4,5} , NIÃ" DE GUIDON ^{3,4} and ANA SOLARI ^{4,5}
				<i>Spina Bifida</i> and Community Health in the Piata Cetatii Collection from 14th-17th Century Transylvania	PRISCILLA B. MOLLARD
				Malaria in the Marshes. Studying the distribution of malaria through cribra orbitalia in the medieval Netherlands	RACHEL SCHATS
				Revisiting the evolution of human "hairlessness"	AARON A. SANDEL
				The slippery relationship between eccrine gland density, sweat production and heat dissipation in humans	ANDREW W. BEST ¹ , DANIEL E. LIEBERMAN ² and JASON M. KAMILAR ^{3,4}
				Dissecting the genetic and environmental variation between populations with skin pigmentation as a case study	ARSLAN A. ZAIDI ¹ , JINGUO HUANG ² and MARK SHRIVER ²
28-Mar	Monday	13:00	15:00	Integumentary Bioarchaeology: A Case Study in reconstructing the lived experience of Chimú Era human sacrifices from the North Coast of Peru (1450 CE)	BENJAMIN J. SCHAEFER ^{1,2} , GABRIEL O. PRIETO ³ and JOHN VERANO ⁴
				Neonatal hair as a record of maternal and fetal exposures	CA'LA K. CONNORS ¹ and ROBIN M. BERNSTEIN ^{2,3}
				Is there a core primate hair microbiome?	CATHERINE E. KITRINOS ¹ , RACHEL B. BELL ² , BRENDA J. BRADLEY ^{3,4} and JASON M. KAMILAR ^{1,2}
				Tattooing the integument: Inflammatory and endocrine responses are primed by lifetime tattoo experience	CHRISTOPHER D. LYNN
				Fishing for the secrets of vertebrate integument development, regeneration, and evolution	CRAIG T. MILLER, SOPHIE L. ARCHAMBEAULT and TYLER A. SQUARE
				Genomics and cellular biology of primate pigmentation: lessons from other taxa	ELIZABETH TAPANES ^{1,2} , TINA LASISI ³ , JASON M. KAMILAR ⁴ and BRENDA J. BRADLEY ²
				The Ecology and Evolution of Primate Hair	JASON M. KAMILAR ^{1,2} and BRENDA J. BRADLEY ^{3,4}

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
				Tied Together: Pleiotropic Effects Across the Integument	LESLEA J. HLUSKO
				Hominin skin as a versatile, biocultural interface	NINA G. JABLONSKI
				The hair microbiome of wild lemurs: functional insights from shotgun metagenomics	RACHEL B. BELL ¹ , RICHARD R. LAWLER ² , JOELISOA RATSIRARSON ³ , JEANNIN RANAIVONASY ³ , REBECCA LEDUC ⁴ and JASON M. KAMILAR ^{1,5}
				Feeding Our Young: The Evolutionary Origins of Mammary Glands from Integumentary Structures	TAORMINA LEPORE
Human Biology: Health, Disease, and Complex Traits					
28-Mar	Monday	14:00	15:00	Molecular underpinnings of lifestyle effects on health in the Turkana	AMANDA J. LEA ^{1,2,3} , CHARLES WAIGWA ^{4,5} , BENJAMIN MUHOYA ^{2,3,4} , FRANCIS LOTUKOI ⁴ , TAWNI VOYLES ⁷ , JULIE PENG ^{2,3} , VARADA ABHYANKAR ^{2,3} , JOSEPH KAMAU ^{5,6} , JENNY TUNG ^{7,8} and JULIEN F. AYROLES ^{2,3}
				Gene expression response comparison of macaques (<i>Macaca mulatta</i>) to two malaria species	AMBER E. TRUJILLO ^{1,2} and CHRISTINA M. BERGEY ^{3,4,5}
				Molecular signatures of aging in the rhesus macaque liver	ELISABETH A. GOLDMAN ¹ , KELLI L. VAUGHAN ² , MAILI SMITH ¹ , SAM WARD ³ , KIMBERLY A. NEVONEN ³ , BRETT A. DAVIS ³ , NOAH SNYDER-MACKLER ^{4,5} , JULIE A. MATTISON ² , STEVEN G. KOHAMA ⁶ , LUCIA CARBONE ^{3,7} and KIRSTIN N. STERNER ¹
				Socioeconomic conditions, and not genetics alone, explain progression of nonalcoholic fatty liver disease	MARIA C. RIEMAN-KLINGLER ^{1,2} , JINHO JUNG ³ , KALEB N. TESFAI ³ , ROHIT LOOMBA ^{3,4} and AMY L. NON ¹
				3D Genomic Strategies to Understand Complex Trait Genetic Architecture	STRUAN F.A. GRANT
Primate Biology: Biogeography, Landscape Ecology, and Diet					
				Using ecological niche modeling to assess how frugivorous non-primate mammals impact frugivorous primate distributions on a global scale.	AMANDA J. FUCHS ¹ , RACHEL B. BELL ² , ARYA KUNAPARAJU ¹ , JOHN ROWAN ³ , LYDIA BEAUDROT ⁴ , KAYE E. REED ⁵ and JASON M. KAMILAR ^{1,2}
				Distributions of Colobinae across space and through time in South East Asia	CHRISTINA MCGRATH ¹ , MARIE VERGAMINI ^{2,3} and AMY L. RECTOR ³
28-Mar	Monday	15:00	16:00	Effects of a novel food on female reproductive parameters in wild olive baboons (<i>P. anubis</i>)	CORINNA A. MOST ^{1,2} , MONICA L. WAKEFIELD ^{2,3} , DAVID MUIRURI ² and SHIRLEY C. STRUM ^{3,4}
				Integrated behavioral and metabolically flexible responses of wild orangutans to variation in nutritional intake	ERIN R. VOGEL ^{1,2} , SHAUHN E. ALAVI ^{3,4,5} , DANIEL J. NAUMENKO ^{6,7} , MALCOLM WATFORD ⁸ , SRI SUCI UTAMI ATMOKO ⁹ , BROOKE E. CROWLEY ¹⁰ , REBECCA S.A. BRITTAIN ^{1,2} , TIMOTHY D. BRANSFORD ¹¹ , MELISSA EMERY THOMPSON ¹² , ASTRI ZULFA ⁹ , WILLIAM D. AGUADO ^{1,2} , MARIA A. VAN NOORDWIJK ¹³ , JESSICA M. ROTHMAN ¹⁴ and DAVID RAUBENHEIMER ¹⁵
				A new ekgmowechashalid primate (Adapiformes) from the Naduo Formation (late Eocene) of Guangxi Zhuang Autonomous Region, China	KATHLEEN L. RUST ¹ , XIJUN NI ² and K. CHRISTOPHER BEARD ¹

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
				Examining the role of competition in <i>Cercopithecus mitis</i> and <i>Cercopithecus ascanius</i> dietary morphology	TESSA CICAK
				Landscape composition and configuration differentially impact lemur occupancy within a fragmented landscape in eastern Madagascar	ZACHARY S. JACOBSON ¹ , PAMELA NARVÁEZ-TORRES ¹ , DEVIN M. CHEN ² , OLIVIA TIAFINJAKA ³ , TYPHENN A. BRICHERI-COLOMBI ⁴ , NICOLA K. GUTHRIE ¹ , EDWARD E. LOUIS JR. ⁵ and STEIG E. JOHNSON ¹
Bioarchaeology: Mobility and Burial					
29-Mar	Tuesday	8:00	9:00	Benefiting from new interaction spheres during the Middle Horizon in ancient Peru at Tenahaha (AD 850-1050): merging strontium isotope and archaeological data	CORINA M. KELLNER ¹ , JUSTIN JENNINGS ² , WILLY Y. ALVAREZ ² and FRANK C. RAMOS ³
				Migrant Mortality and Survivorship in Ancient Teotihuacan: ¹³ C and ¹⁵ N Isotopes and Survival Analysis	GINA M. BUCKLEY ¹ , REBECCA STOREY ² and LINDA R. MANZANILLA ³
				Biodistance between flexed and extended burials at the Greek colony of Chersonesos	HANNES RATHMANN ^{1,2} , ROMAN STOYANOV ³ and RICHARD POSAMENTIR ⁴
				Bioanthropological analysis of human remains from the Middle Period in the Dulce River basin and Guasayan hills in northwestern Argentina	HILTON D. DRUBE ^{1,2} , FERNANDA MINOTTO ¹ and AGUSTÁN TOGO ²
				Reanalysis of Disarticulate and Commingled Human Remains: Burning as Complex Mortuary Ritual	J. CRISTINA FREIBERGER and DEBRA L. MARTIN
				Tibial subperiosteal new bone formation: a comparative analysis of two western New York State poorhouses	KATHARINE C. WOOLLEN ¹ , JENNIFER F. BYRNES ¹ , KATHERINE GADDIS ¹ , JORDAN PHILLIPS ¹ and JOYCE SIRIANNI ²
Bioarchaeology: Theoretical Advances					
29-Mar	Tuesday	9:00	10:00	Variation in ontogenetic trajectories of limb dimensions is the result of multiple evolutionary forces	AN-DI YIM ^{1,2} , LIBBY COWGILL ³ , DAVID C. KATZ ⁴ and CHARLES C. ROSEMAN ⁵
				Early-Life Dietary Experience and Frailty after Colonization and Conversion in Medieval Prussia	ARIEL GRUENTHAL-RANKIN ^{1,2} , MARISSA RAMSIER ¹ , KATHERINE GADDIS ³ and ARKADIUSZ KOPERKIEWICZ ⁴
				Patterns of trauma and violence in a Later Stone Age sample from southern Africa	CALVIN G. MOLE ^{1,2} , VICTORIA E. GIBBON ¹ and DEANO D. STYNDER ³
				Burned house, (un)burnt bodies. Bioarchaeological insights in the life and death of Tripolye Culture mega site inhabitants (3800–3600 BCE)	KATHARINA FUCHS ¹ , LIUDMYLA SHATILO ² , ROBERT HOFMANN ² , SUSANNE STORCH ³ , VLADISLAV CHABANYUK ⁴ and JOHANNES MÄLLER ²
				Genetic anomaly or congenital syphilis? The anomalous crown morphology of a 1500-year-old isolated molar from Panamá	NICOLE E. SMITH-GUZMÁN
				Incorporating Emerging Insights on Psychosocial Stress into Bioarchaeology	REBECCA V. MOUNTAIN ¹ , CAIT B. MCPHERSON ^{2,3} and JORDAN A. WILSON ⁴
				Giving Back the Past - the role of biological anthropology in recovering histories of the marginalized.	ROBYN A. HUMPHREYS ^{1,2,4} , JUNE BAM HUTCHISON ⁴ , WENDY BLACK ^{2,3} and REBECCA ROGERS ACKERMANN ^{1,2}
				Comparing Diaphyseal Length to Dental Calcification Age of Subadults from Elmbank Cemetery	SARA WILSON ^{1,2} and J. CHRISTOPHER DUDAR ¹

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
Human Biology: Hormones and Age					
29-Mar	Tuesday	9:00	10:00	Polycystic Ovarian Syndrome (PCOS) as an Evolutionary Mismatch Disorder: Preliminary evidence that PCOS may reduce fracture risk among female CrossFit athletes	COURTNEY MANTHEY-PIERCE and TARA CEPON-ROBINS
				Association between age and cognition in modern Hadza foragers	M. KATHERINE SAYRE¹, GENE E. ALEXANDER^{2,3,4,5,6,7}, ELIZABETH CASHDAN⁸, HERMAN PONTZER^{10,9}, LAYNE VASHRO⁸, BRIAN M. WOOD^{11,12} and DAVID A. RAICHLEN¹
				The earlier the better: age at first reproduction mediates the association between facial fluctuating asymmetry and reproductive success in women	MAGDALENA KLIMEK, URSZULA M. MARCINKOWSKA, ANDRZEJ GALBARCZYK, ILONA NENKO and GRAZYNA JASIENSKA
				Sexual dimorphism in human midfacial growth patterns from newborn to 5 years old based on computed tomography	TAISIYA A. SYUTKINA¹ and ANDREJ A. EVTEEV²
				Intra- and inter-individual variation across the peri-menopausal period among Qom women of Argentina	URSZULA M. MARCINKOWSKA¹, MARGARET C. CORLEY², MELANIE A. MARTIN³, RICHARD G. BRIBIESCAS³ and CLAUDIA VALEGGIA³
Forensic Anthropology: Assessing Taphonomy and Trauma					
29-Mar	Tuesday	10:00	11:00	Shifting the Paradigm in Forensic Anthropology	DENNIS C. DIRKMAAT, PH.D. and LUIS L. CABO, MS
				Portion size matters: carrion ecology lessons for medicolegal death investigations - a pilot study in Cape Town, South Africa	DEVIN A. FINAUGHTY^{1,2}, CLAIRE L. DU TOIT¹, MAXIMILIAN J. SPIES¹ and VICTORIA E. GIBBON¹
				Differential Patterns in Burned Remains	ELIANA B. GUTIERREZ and DANIEL WESCOTT
				A Review of Anatomical Terminology for the Hip Bone	EMILY DEEM², NICHOLAS V. PASSALACQUA¹, DIANA MESSER¹, KATIE ZEJDLIK¹ and ALEXANDRA KLALES³
				Survivability versus rate of recovery for skeletal remains in forensic anthropology	SHELBY SCOTT¹ and RICHARD L. JANTZ²
Paleoanthropology: Diet and Ecology					
29-Mar	Tuesday	12:00	13:00	Hominin Taxonomic Confidence and its Impact on our Understanding of Paleoenvironmental Associations	ALEXIS S. ULUUTKU¹, BERNARD A. WOOD¹ and DAVID B. PATTERSON²
				Diverse monsoon seasonality in eastern Africa recorded by papionin tooth enamel $\delta^{18}O$	DANIEL R. GREEN^{1,2}, JANAÁNA N. ÁVILA^{3,4}, WENDY DIRKS⁵, IAN S. WILLIAMS⁴ and TANYA M. SMITH^{3,6}
				Zooarchaeology and Taphonomy of Small Mammal Remains from Liang Bua	ELIZABETH G. VEATCH^{1,2}, THOMAS SUTIKNA^{3,4,5} and MATTHEW W. TOCHERI^{2,3,6}
				Ungulate hypsodonty and mesowear indicate environmental change associated with hominin species turnover at Laetoli, Tanzania	ELIZABETH N. FILLION
				Developing a quantitative means of assessing the biological integrity of fossil enamel for dietary and paleoecological reconstructions of early hominins	GEORGIA OPPENHEIM and JOHN KINGSTON
				Linking mammalian herbivore diets and (paleo)environments: implications for hominin paleoecology	JOSHUA R. ROBINSON^{1,2}, JOHN ROWAN³, W. ANDREW BARR^{4,5} and MATT SPONHEIMER⁶
				How inter-species variation in strontium-calcium ratios of leaves and fruit informs dietary reconstructions	MARIAN I. HAMILTON¹, B. LEE. DRAKE², ALEX GALLOWAY¹, EMILY DZHINENKO¹ and SHERRY V. NELSON²
				Evidence for $\delta^{66}Zn$ values as indicators of meat consumption in the Tai chimpanzees	RENEE D. BOUCHER¹, KLERVIA JAOUEN², JULIA RIEDEL³, CHRISTOPHE BOESCH^{3,4}, ROMAN WITTIG^{3,4} and VICKY M. OELZE¹

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				First enamel nitrogen isotope data of early hominins: Early Pleistocene <i>Australopithecus</i> (Sterkfontein Member 4, South Africa) did not consume significant amounts of animal resources	TINA LÄÖDECKE ^{1,2} , JENNIFER N. LEICHLITER ^{1,3} , NICOLAS N. DUPREY ⁴ , DOMINIC STRATFORD ⁵ , HUBERT B. VONHOF ⁴ , MARION K. BAMFORD ⁶ , GERALD H. HAUG ⁴ and ALFREDO MARTÁNEZ-GARCÍA ⁴
Primates: Conservation and the Effects of a Changing Environment on Behavior					
				Primates in an urban world	AMANDA L. ELLWANGER ¹ , LUCY MILLINGTON ² and JOANNA E. LAMBERT ³
				Age and sex related variation in urinary neopterin in wild Bornean orangutans	CAITLIN A. O'CONNELL ^{1,2} , DANIEL J. NAUMENKO ^{3,4} , MARIA A. VAN NOORDWIJK ⁵ , REBECCA S.A. BRITTAIN ² , SRI SUCI UTAMI ATMOKO ^{6,7} and ERIN R. VOGEL ²
29-Mar	Tuesday	13:00	14:00	Portrayals of Wild Primates in Documentary Films: Reason for Concern?	CRYSTAL M. RILEY KOENIG ^{1,2} , BRYAN L. KOENIG ³ and CRICKETTE M. SANZ ^{4,5}
				The effects of wildfire smoke on behavior and energetics in wild Bornean orangutans (<i>Pongo pygmaeus wurmbii</i>) in Central Kalimantan, Indonesia	GABRIELLE ROSENTHAL ^{1,2} , ANDREA DIGIORGIO ^{1,3} , DANIEL J. NAUMENKO ⁴ , TIMOTHY BRANSFORD ⁵ , SRI SUCI UTAMI ATMOKO ⁶ and ERIN R. VOGEL ^{1,2}
				Livestock grazing in lemur habitats: Using passive acoustic monitoring to characterize grazing intensity	NINA FLOWERS ¹ , LYNDSEY L. RANKIN ² , NAYUTA YAMASHITA ^{1,3} and ANNE C. AXEL ²
				Effects of forest loss on lemur density in the Kianjavato forest fragments, Southeast Madagascar	PAMELA R. NARVÁEZ-TORRES ¹ , NICOLA K. GUTHRIE ¹ , TYPHENN A. BRICHIERI-COLOMBI ² , CRESSANT P. RAZAFINDRAVELO ³ , ZACHARY S. JACOBSON ¹ , FREDO TERA ³ , DANIEL RAFIDIMANANA ⁴ , HARISOA M. ANDRIANANTENAINA ⁴ , ELINAH Z. RAHASIVELO ⁵ , MELODY A. PETERSEN ¹ , HASINALA RAMANGASON ¹ , LEA RANDALL ² , JANA M. MCPHERSON ² , AXEL MOEHRENSCHLAGER ² , SHEILA M. HOLMES ⁶ , EDWARD E. LOUIS ^{3,7} and STEIG E. JOHNSON ¹
				Ranging responses to chainsaw noise and home range use of the northern yellow-cheeked crested gibbon <i>Nomascus annamensis</i>	SARAH J. MCGRATH and ALISON M. BEHIE
Functional Anatomy: Cranial Modularity and Plasticity					
				Neural, Dural, and Osseous Interactions and Their Impact on Cranial Shape	ANNABEL T. DAVIS ¹ , GRACE A. SELECKY ² , CHLOE PHELY-BOBIN ¹ , MEGAN LUI ¹ , SAMANTHA YAWITZ ² , JEN TACHIBANA ¹ , JESSICA M. CRONIN ³ , CHRISTINA KAN ¹ , KAREN LI ⁴ , REBECCA S. JABBOUR ⁵ and GARY D. RICHARDS ⁶
29-Mar	Tuesday	15:00	16:00	Modularity in the facial skeleton of <i>Homo</i> and <i>Pan</i> : support for functional modules with ontogenetic components	CATALINA I. VILLAMIL
				Negligible integration of neurocranial and labyrinthine morphology in a mouse model of industrialized diet	ELSA M. VAN ANKUM ¹ , DEVIN L. WARD ² , MARY T. SILCOX ³ , BENICE VIOLA ² and JULIA C. BOUGHNER ¹
				A novel method for collecting primate orbital volume in 3DSlicer	EMILY R. BRYSON ¹ , VALERIE B. DELEON ¹ and TIMOTHY D. SMITH ^{2,3}
				Long and short of craniofacial development - how cranial base chondrocytes shape the face	HEATHER L. SZABO-ROGERS

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				The relationship between zygomatic arch morphology and diet in closely-related primates	MAYA BHARATIYA ^{1,2} , HALLIE M. EDMONDS ^{3,4} and GABRIELLE A. RUSSO ¹
				A comparative analysis of ontogenetic changes in catarrhine and platyrrhine cranial base angle	SIOBHAN A. E. SUMMERS ¹ , MALEA K. NEESE ¹ , EMILY R. BRYSON ¹ , TARA A. PEBURN ² , TIMOTHY D. SMITH ^{3,4} and VALERIE B. DELEON ¹
Genetics & Genomics: Adaptation and Complex Traits					
				Art, Orality, and Migration: The roles of NF1 , mnemonics, and somatic adaptation in the hominin biocultural toolkit	ANDREA J. ALVESHARE ¹ , LYNNE KELLY ² and VINCENT M. RICCARDI ³
				Genomic features underlying the Andean pattern of high-altitude adaptations	KIMBERLY T. ZHU ¹ , MELISA KIYAMU ² , GIANPIETRO ELÄAS ³ , JENNA ISHERWOOD ⁴ , OBED GARCIA ⁵ , FRANK S. LEE ⁶ , MARIA RIVERA-CHIRA ² , FABIOLA LEON-VELARDE ² , TOM D. BRUTSAERT ³ and ABIGAIL BIGHAM ¹
29-Mar	Tuesday	17:00	18:00	Evaluating the effects of a high fat, low fiber diet on the composition and biodiversity of gut microbiota in wild olive baboons	MADELYN R. MOY ¹ , LAURA DIAKIW ² and KATHERINE R. AMATO ¹
				Genetic Evidence for Heat Adaptation in Mexican Mayans	VINCENT M. BATTISTA ^{1,2} , KIMBERLY T. ZHU ³ , OBED GARCIA ⁴ , KATARINA EVANS ⁵ , MARÄA INCLÄN ⁶ , MELISA KIYAMU ⁸ , TOM BRUTSAERT ⁷ , MARK SHRIVER ⁹ , LAUREL PEARSON ⁹ and ABBY BIGHAM ³
				Genetic insights into local adaptation of lipid metabolism in fishing-based populations in southern East Asia	YUTI GAO ¹ and ZI-YANG XIA ²
Genetics & Genomics: Adaptation: Microbiome					
				The Real Deal? Validation of a Dental Calculus Model Using FTIR	BJÄRN PEARE BARTHOLDY ¹ , SHIRA GUR-ARIEH ² and AMANDA G. HENRY ¹
				The effect of diet on the gut microbiome of humans and non-human primates	KATHERINE R. AMATO ¹ , ELIZABETH K. MALLOTT ² , ZACH DICKSON ³ , SAM LONG ⁴ , MELANIE KUCH ⁴ , PAULA D'ALMEIDA MAIA ¹ , LAURA DIAKIW ⁵ , MARIA FERNANDA DE LA FUENTE ⁶ , PAUL A. GARBER ^{7,8} , MICHAEL GURVEN ⁹ , MORGAN HOKE ^{10,11} , CHRISTOPHER KUZAWA ¹ , THOMAS MCDADE ¹ , ROBIN NUSSLOCK ¹² , ALICIA RICH ¹³ , NICOLA SCHIEL ⁶ , CHRISTOPHER A. SCHMITT ¹⁴ , BENJAMIN TRUMBLE ¹⁵ and HENDRIK POINAR ¹⁶
30-Mar	Wednesday	8:00	9:00	Disentangling phylogenetic, physiological, and ecological influences on the human gut microbiome using primatized gnotobiotic mice	LAURA D. SCHELL, CAROLINE E. DIGGINS and RACHEL N. CARMODY
				Host-Pathogen Coevolution through the Lens of Ancient Genomics: A Case Study of the Cariogenic Pathobiont, <i>Streptococcus mutans</i>	MEGAN MICHEL ^{1,2,3} , AIDA ANDRADES VALTUEÄA ² , RODRIGO BARQUERA ² , TIAGO FERRAZ DA SILVA ^{2,4} , EVELYN GUEVARA ⁵ , ALISSA MITTNIK ⁶ , KATHRIN NÄGELE ² , ELIZABETH A. NELSON ^{2,7} , GUNNAR NEUMANN ^{2,3} , MARIA SPYROU ^{2,8} , VANESSA VILLALBA ² , KIRSTEN BOS ² , WOLFGANG HAAK ² , COSIMO POSTH ^{2,8} , PHILIPP STOCKHAMMER ^{2,3,9} , ALEXANDER HERBIG ² and JOHANNES KRAUSE ^{2,3}
				Gut microbial plasticity in animal domestication and human industrialization	RACHEL N. CARMODY ¹ and ASPEN T. REESE ²

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
Education: Institutions and accessibility in biological anthropology					
30-Mar	Wednesday	9:00	10:00	The readability of bioanthropological abstracts and the implications for science communication	DONOVAN M. ADAMS ¹ , KELLY C. MCGEHEE ¹ and CLAIRA E. RALSTON ²
				The AABA Education Committee: Where it has been, where it is going, how we hope to get there	KATRINA E. YEZZI-WOODLEY ¹ , ROBERT C. O'NEILL ² , CAITLIN SCHREIN ³ , KATE MCGRATH ⁴ , NINA LOPERGLO ⁵ , AMANDA C. OWINGS ⁶ and BRIANA POBINER ⁷
				Impact of Covid-19 on the Accessibility of Digital Osteological Resources	MEGAN H. FRY ¹ , SAMANTHA M. MCCRANE ¹ and S. CONNER WELTY ²
				EvoHom: Developing an Edugame for High School Teachers to Increase Literacy in Human Evolution	ROSE LEACH ^{1,4} , JAZMIN RIOS ^{3,4} and FANUEL MUINDI ^{2,4}
				A survey of microaggression, discrimination and harassment within the Faculty of Science at the University of Cape Town	TARRYN SASHA FULLERTON, KERRY N WARREN and REBECCA R. ACKERMANN
Functional Anatomy: Locomotion, Part 1					
30-Mar	Wednesday	10:00	11:00	Three-dimensional kinematics of the bipedal chimpanzee pelvis and hind limbs near the walk-run transition speed	AMANDA SINCLAIR ¹ , BRIGITTE DEMES ² , NATHAN E. THOMPSON ³ , SUSAN G. LARSON ² , BRIAN R. UMBERGER ⁴ and MATTHEW C. O'NEILL ⁵
				Why do large apes trot? The ontogeny of trotting gaits in gorillas and its implications for understanding hominoid locomotion	DANIEL SCHMITT ¹ , BERNADETTE PERCHALSKI ² , ROSHNA E. WUNERLICH ³ and ANGEL ZEININGER ¹
				Correlations of cortical bone geometry and tissue mineral density across ontogeny in great apes	MIRANDA N. COSMAN and MAUREEN J. DEVLIN
				The evolution of the ape trunk bauplan is not explained by small back muscles	NATHAN E. THOMPSON ¹ , BETTINA FAERBER ² and JOHANNA NEUFUSS ³
				Phylogeny and association with locomotory context of posterolateral knee sesamoids in primates	NELLY A. FRAGOSO ¹ , SARAH ELTON ² and MICHAEL A. BERTHAUME ¹
Bioarchaeology: Diet					
30-Mar	Wednesday	11:00	12:00	A noble childhood? Exploring the diet and health of high status individuals from medieval Stirling Castle, Scotland, through isotope analysis of incremental dentine	JO BUCKBERRY ¹ , JULIA LEE-THORP ² , HANNAH KOON ¹ , CHELSEA LANDON ¹ , CATHY BATT ² and JULIA BEAUMONT ¹
				Experimental Assessment of $\delta^{15}N$ Shifts in Prey Meat and Bone in Response to Ambient Temperature Curing and Storage – Implications for Paleodietary Reconstruction	KIMBERLY K. FOCKE and ALISON S. BROOKS
				Historic dental calculus reveals geographic-specific shifts in oral microbiota during the Industrial Revolution	LAURA S. WEYRICH ¹ , STERLING WRIGHT ¹ and EMILY SKELLY ²
				An overlooked island in the Irish Sea: palaeodietary reconstruction at a medieval Viking Abbey (AD1134-1540), Isle of Man	MARIE C. WEALE ¹ , DR. PETER DAVEY ² , DR. PHILIPPA TOMLINSON ³ and ALLISON FOX ⁴
				Dietary trends in the post-colonization medieval Prussian region	MARISSA RAMSIER ¹ , ARIEL GRUENTHAL-RANKIN ^{1,2} , KATHERINE GADDIS ^{1,3} and ARKADIUSZ KOPERKIEWICZ ⁴
				Understanding the dietary behavior of a 7th–9th century Avar community from Jagodnjak, Croatia using stable isotope of bone collagen	MARLON KOČI ¹ , DINKO T. PAVIĆEVIĆ ² , ANITA DUGONJIĆ ³ , MARIO NOVAK ⁴ and J. MARLA. TOYNE ¹

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
				A Quantification of the Effect of Regional Climate Change on the Prehistoric Foraging-Farming Transition in Midwestern North America	MELISSA G. TORQUATO and ERIK R. OTÁROLA-CASTILLO
				Untangling Carbohydrate and Protein Source Contributions in the Diets of a Neotropical Foraging-to-Farming Population using Carbon Stable Isotope Analysis of Amino Acids	NADIA C. NEFF ^{1,3} , KEITH M. PRUFER ^{1,3} , GERALDINE BUSQUETS-VASS ^{2,3,4} , ERIN E. RAY ^{1,3} , EMMA ELLIOTT SMITH ⁵ , DOUGLAS J. KENNETT ⁶ and SETH D. NEWSOME ^{2,3}
Human Biology: Birth and Breastfeeding					
				Birth parameters and biomarkers of biological aging in men	AGNIESZKA Å»ELAÄ¹NIEWICZ, JUDYTA NOWAK-KORNICKA and BOGUSÄ»AW PAWÄ»OWSKI
				Social and biological transgenerational underpinnings of adolescent pregnancy	AMANDA ROWLANDS, EMMA C. JUERGENSEN, ANA PAULA PRESCIVALLI COSTA, KATRINA G. SALVANTE and PABLO A. NEPOMNASCHY
30-Mar	Wednesday	11:00	12:00	Birthweight predicts epigenetic age acceleration during the first three years of life	EDWARD B. QUINN ^{1,2} , CHU J. HSIAO ^{1,2,3} , FELICIEN M. MAISHA ^{4,5} and CONNIE J. MULLIGAN ^{1,2}
				Reducing Preterm Birth and Racial Disparities: A Model of Stress-Induced Developmental Plasticity	GABRIELLA B. MAYNE ¹ , AYISHA BUCKLEY ² and LUWAM GHIDEI ³
				Socioeconomic development predicts a weaker contraceptive effect of breastfeeding	NICOLAS TODD ¹ and MATHIAS LERCH ²
Education: Pedagogy in biological anthropology					
				The Population Problem: A primary unit with no definition	ADAM P. VAN ARSDALE ¹ and ROBIN G. NELSON ²
				Primates on the move: a comparison of student physical activity during an ethnoprimate field school and traditional classroom setting	JAMES E. LOUDON ¹ , MICHAELA E. HOWELLS ² , TARYN B. APRIL ² and KATHERINE L. WOOLARD ³
30-Mar	Wednesday	12:00	13:00	Acceptance of evolution among South African Matric (final year high school) learners	KERRY A. WARREN ^{1,2} , CORNELIUS T. MUSHANGWE ² , LINDSAY K. HUNTER ¹ and REBECCA R. ACKERMANN ^{1,2}
				Fake News in the middle of the SARS-CoV-19 SYNDEMIC: Analysis of news broadcast via WhatsApp application, Amazon, Brazil	LIGIA A. FILGUEIRAS ¹ , RANDERSON JOSÄ» DE ARAUJO SOUSA ² , ANA GABRIELA DE SOUSA COSTA ² , ADRIANA VANESSA RIBEIRO MAFRA ² , ILGA MILLA CHAVES SILVA ² and VIVIAN DE CARVALHO AVELINO ²
				The Visible Ape Project: a free, comprehensive, web-based anatomical atlas for scientists and veterinarians designed to raise public awareness about apes	RUI DIOGO ^{1,2} , NICOLE BARGER ^{1,2,3} , JOSE S. MARTIN ⁴ , MARLI RICHMOND ² and EVE K. BOYLE ¹
Human Skeletal Biolgy: Craniofacial Studies					
				Comparative Morphology of the Hominid Inner Ear Otolith System	CHRISTOPHER M. SMITH ^{1,2,3} , ASHLEY S. HAMMOND ^{3,4} , SERGIO ALMÄ»CIA ^{3,4,5} and JEFFREY T. LAITMAN ^{1,2,3,6}
30-Mar	Wednesday	12:00	13:00	Comparison of Temporal Cortex Cytoarchitectural Variability Across Primates	ISHAN S. ABDULLAH ¹ , ALEX R. DECSIEN ^{2,3} , CHRISTOPHER TAYLOR ⁴ , GWYNETH MCNIFF ¹ , AMY LONGTIN ¹ , VICTORIA BARONE ¹ , ADAM SNYDER ¹ , ADITYA LOGANATHAN ¹ , ZAHRA WAHED ¹ , ZOE PIPA ¹ , CHRISTINA HEROLD ⁵ , KATRIN AMUNTS ^{5,6} and CHET C. SHERWOOD ¹

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
				A New 3D System for Categorizing Variation in Middle Meningeal Neurovascular Patterns As Determined from Endocranial Surfaces of 6-8.0 year olds	JESSICA M. CRONIN ¹ , EMIELYN DAS ² , ANNABEL T. DAVIS ² , GRACE A. SELECKY ³ , REBECCA S. JABBOUR ⁴ and GARY D. RICHARDS ⁵
				We are what we chew: Diet-induced morphological changes in the mandible	LUCY E. BRUEMMER and MAJA SESELJ
				Anatomical and Shape Variation of the Endocranial Cavity in 6.0 - 8.0 Year-Old Humans	SAMANTHA E. YAWITZ ¹ , JENNIFER TACHIBANA ² , MEGAN LUI ² , CHLOE PHELY-BOBIN ³ , CHRISTINA KAN ² , JESSICA M. CRONIN ⁴ , ANNABEL T. DAVIS ² , EMIELYN DAS ² , REBECCA S. JABBOUR ⁵ and GARY D. RICHARDS ⁶
				Enamel dentine junction in population dynamics: A case study of ancient northern Iberian populations	BEATRIZ GAMARRA ^{1,2} , MARINA LOZANO ^{1,2} , ANTONIETTA DEL BOVE ^{1,2} , EULÀLIA SUBIRÀ ³ , MANUEL EDO ^{4,5} , CONCEPCIÀ CASTELLANA ⁴ , JOSEP MARIA. VERGÀ ⁵ , JUAN IGNACIO MORALES ⁶ , ARTUR CEBRIÀ ⁶ , FRANCESC X. OMS ⁶ , CARLOS TORNERO ^{1,2} and ANNA GÀMEZ-BACH ⁷
30-Mar	Wednesday	13:00	14:00	Testing Data Imputation and Machine Learning Techniques on a Global Odontometric Reference Sample	CASSIE E. SKIPPER and MARIN A. PILLOUD
				Identifying candidate SNPs shaping dental morphological trait expression	DORI E. KENESSEY, LEAH AUCHTER and MARIN A. PILLOUD
				The long and short of it: comparing chronic and acute stress from dental microstructures in Late Archaic children, Ohio	JAKE R. SHIELDS and SAMANTHA H. BLATT
				Social organisation and biological distance: a comparison of Iron Age populations from northeast and southwest England	KATIE E. FAILLACE ¹ and MALLORY J. ANCTIL ²
				Isotopic Analysis of modern human tooth enamel	LILY M. GEORGIEVSKI ¹ , AMANDA N. FRIEND ² , GEORGE D. KAMENOV ³ , GARY I. ALTSCHULER ⁴ and JOHN S. KRIGBAUM ¹
				Biological distance in east Yorkshire, England: a preliminary analysis	MALLORY J. ANCTIL ¹ and JOEL D. IRISH ²
				The Relationship Between Dental Modifications and Dental Pathologies in the Classic Period Maya	MARIE A. DAY and ERIN C. BLANKENSHIP-SEFCZEK
				Modern human upper premolar shape does not reflect their geographical origin	PETRA G. ĀIMKOVÁ ¹ , LISA WURM ² , CINZIA FORNAI ^{1,3,4} and GERHARD W. WEBER ^{1,5,6}
				The effect of demographic variation on correlations between developing teeth in humans	VALERIE SGHEIZA
				Femoral cross-sectional geometry of <i>Paranthropus boisei</i>	ALESSANDRA VECINO GAZABÀ ^{1,2} , CARRIE S. MONGLE ^{3,4} , NINA ST. HILLAIRE ^{5,6} , JULIA ARAMENDI ^{7,8} , MANUEL DOMÀNGUEZ-RODRIGO ^{7,9} and ASHLEY S. HAMMOND ^{1,2}
30-Mar	Wednesday	13:00	14:00	Facial growth and development in subadult hominoids and fossil hominins	AMBER C. JAEGER ¹ , JULIE LAWRENCE ^{1,2} and GARY T. SCHWARTZ ¹
				Lower thoracic vertebra morphology reveals adaptations to bipedal posture and locomotion in fossil hominins	JORDAN S. GUERRA ^{1,2} , DANIEL GARCÍA-MARTÁNEZ ³ , MARC R. MEYER ⁴ and SCOTT A. WILLIAMS ^{1,2}

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				More severe stress markers in the teeth of <i>Australopithecus africanus</i> compared to <i>Paranthropus robustus</i>	KATE MCGRATH ^{1,2,3} and IRIS PANSIN ³ and DEBBIE GUATELLI-STEINBERG ²
				Lessons from the coywolf (<i>Canis latrans</i> var.): patterns of mandibular integration in hybrid canids and its implications for the hominin fossil record	LAVANIA NAGENDRAN ¹ and LAUREN SCHROEDER ^{2,3,4}
				Calcar femorale variation in extant and fossil hominids and its relationship with bipedalism	MARINE CAZENAVE ¹ , TRACY L. KIVELL ^{1,2,3} , MARTA PINA ^{4,5} , DAVID R. BEGUN ⁶ and MATTHEW M. SKINNER ^{1,2,3}
				Skeletodental element abundance in the hominin fossil record	RYAN T. MCRAE and BERNARD A. WOOD
Primateology: Health, physiology, and neurology					
				TWO MEASURES OF FECAL GLUCOCORTICOIDS AND THEIR RELATIONSHIP TO SOCIAL GROUP SIZE AND COMPOSITION IN BONOBOS	ALEXANA J. HICKMOTT ^{1,2} , KLAREE J. BOOSE ¹ , MONICA L. WAKEFIELD ³ , COLIN M. BRAND ^{4,5} , FRANCES J. WHITE ¹ and J. JOSH SNODGRASS ^{1,6}
				Low Reproductive Skew among Flanged Male Orangutans in Gunung Palung National Park, Borneo, Indonesia	AMY M. SCOTT ^{1,2} , GRAHAM L. BANES ³ , WURYANTARI SETIADI ⁴ , JESSICA R. SARAGIH ⁴ , TRI WAHYU SUSANTO ⁵ , TATANG MITRA SETIA ⁵ and CHERYL D. KNOTT ^{1,6}
30-Mar	Wednesday	14:00	15:00	Differences in epigenetic aging of the prefrontal cortex and cerebellum in humans and chimpanzees	ELAINE E. GUEVARA ^{1,2} , WILLIAM D. HOPKINS ³ , PATRICK R. HOF ^{4,5} , JOHN J. ELY ⁶ , BRENDIA J. BRADLEY ² and CHET C. SHERWOOD ²
				Social precursors and fitness outcomes of group fission in geladas	JACOB A. FEDER ¹ , JACINTA C. BEEHNER ^{2,3} , NOAH SNYDER-MACKLER ^{4,5} , AMY LU ^{1,6} and THORE J. BERGMAN ^{2,7}
				Can language-training shape ape brains? Koko and Michael compared to other gorillas	NICOLE BARGER ^{1,2,3} , PENNY PATTERSON ⁴ , CHRISTA NUNES ⁴ , KEVIN KEEL ⁵ , CHERYL D. STIMPSON ^{6,7} , AUSTIN K. BEHEL ¹ , JOSEPH M. ERWIN ¹ , PATRICK R. HOF ⁸ and CHET C. SHERWOOD ^{1,3}
				Investigation into robust methods for noninvasive detection of Simian Immunodeficiency Virus	TESSA H. CANNON ¹ , RAJNI KANT SHUKLA ² , CHRISTOPHER MADDEN ³ , VANESSA HALE ³ and W. SCOTT MCGRAW ¹
Forensic Anthropology: Evaluating Methods using Databases and Meta-Analyses					
				Implications of Univariate Subadult Craniometric Growth Patterns in Biological Anthropology	BRIANA T. NEW ¹ , CHRISTOPHER A. WOLFE ¹ , LOUISE K. CORRON ¹ , KATE SPRADLEY ² and KYRA E. STULL ¹
				The current status of methods usage in forensic anthropology casework using the Forensic Anthropology Database for Assessing Methods Accuracy (FADAMA).	CHELSEY A. JUAREZ ¹ , CRIS E. HUGHES ² and AN-DI YIM ³
30-Mar	Wednesday	15:00	16:00	Advances in Subadult Age Estimation: Using Information Theory to explore the relationship between growth indicators and age	CHRISTOPHER A. WOLFE ¹ , ELAINE Y. CHU ¹ , LOUISE K. CORRON ¹ , MICHAEL H. PRICE ² and KYRA E. STULL ¹
				Collagen Denaturalization in Porcine Femora: Maceration and its Effect on Co/NCa Ratios	EMILY BROOKS ¹ , THERESA DE CREE ² and DR. KATELYN BOLHOFNER ³
				Advances in Subadult Age Estimation: The Mixed Cumulative Probit (MCP) and the Subadult Virtual Anthropology Database (SVAD)	KYRA E. STULL ¹ , ELAINE Y. CHU ¹ , LOUISE K. CORRON ¹ , CHRISTOPHER A. WOLFE ¹ and MICHAEL H. PRICE ²
				Bone Cross Sectional Geometry, Haversian Remodeling, and Age Estimation at Death in a Sample of Homo sapiens of Known Age, Sex, and Population of Origin	ROBERT A. WALKER

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				Detecting skeletal perimortem sharp force trauma on postmortem computed tomography images in forensic anthropology	SANDRA BRAUN, LARA INDRA, SANDRA LÄ-SCH and MARCO MILELLA
				An Analysis of Lethal Anti-Transgender Violence and Forensic Disempowerment using the Transgender Day of Remembrance Database	TAYLOR FLAHERTY ¹ , ADRIANNE DIZON ² , JENNIFER BYRNES ¹ , SAMANTHA BLATT ³ , MARIYAM I. ISA ⁴ and AMY MICHAEL ⁵
				Validation of a Method for Determining Age At Death Using the Acetabulum	ZOE G. SHAW and DAWN MULHERN
Primateology: The Macaque Brain and Body					
30-Mar	Wednesday	16:00	17:00	Greater variability in rhesus macaque (<i>Macaca mulatta</i>) endocranial volume among males	ABIGAIL E. COLBY ¹ , ALEX R. DECASIEN ² , EVE B. COOPER ³ and JAMES P. HIGHAM ^{3,4}
				The correlation between geographic distance and macaque skeletal morphology	BRITTANY KENYON-FLATT ^{1,2} and NOREEN VON CRAMON-TAUBADEL ²
				Sexual dimorphism in the ontogeny of rhesus macaque body size	CASSANDRA M. TURCOTTE ^{1,2} , EVA H. J. MANN ³ , MICHALA K. STOCK ⁴ , CATALINA I. VILLAMIL ⁵ , MICHAEL J. MONTAGUE ⁶ , EDWIN DICKINSON ⁷ , SAMUEL BAUMAN SURRATT ⁸ , MELWEEN MARTINEZ ⁸ , SCOTT A. WILLIAMS ^{1,2} , SUSAN C. ANTÄ" N ^{1,2} and JAMES P. HIGHAM ^{1,2}
				Characterizing neurons in schizophrenia-associated regions of the rhesus macaque brain	GABRIELLE R. DUGAN ¹ , TRISH M. ZINTEL ² , KENNETH L. CHIOU ² , CAITLYN H. SPURRELL ⁴ , AISHWARYA A. GOGATE ^{4,5} , LEA M. STARITA ^{4,6} , DIANA R. O'DAY ⁴ , HANNAH A. PLINER ⁴ , SAMUEL E. BAUMAN ⁷ , NICOLE R. COMPO ⁷ , MELWEEN I. MARTINEZ ⁷ , LAUREN J.N. BRENT ⁸ , CHRISTOPHER S. WALKER ⁹ , OLGA GONZALEZ ¹⁰ , JACK STYLLI ¹² , ALEX R. DECASIEN ^{13,15,19} , MARTIN O. BOHLEN ¹¹ , JAMES P. HIGHAM ^{13,15} , MICHAEL J. MONTAGUE ¹² , MICHAEL L. PLATT ^{12,14,16} , JAY SHENDURE ^{17,18,4,6} and NOAH SNYDER-MACKLER ^{2,3}
				A macaque model for the effects of admixture on body size	LAURA T. BUCK ^{1,2} , DAVID C. KATZ ³ , REBECCA ROGERS ACKERMANN ^{4,5} , LESLEA J. HLUSKO ^{6,7} , SREE KANTHASWAMY ⁸ and TIMOTHY D. WEAVER ²
Primateology: Morphology and Movement					
				Relative leg-to-arm strength proportions in Bornean and Sumatran orangutans	ALEXANDRA E. KRALICK ¹ and MATTHEW W. TOCHERI ^{2,3,4}
				Catching their Strides: A comparative analysis of wild platyrrhine walking kinematics on naturally variable substrates	ALLISON MCNAMARA ¹ , NOAH T. DUNHAM ² , WALKER STANTON ¹ , JESSE W. YOUNG ³ and LIZA J. SHAPIRO ¹
				Comparison of hind limb kinematics in <i>Lemur catta</i> climbing and descending a 45° oriented substrate	BERNADETTE A. PERCHALSKI ¹ , ANGEL ZEININGER ² and DANIEL SCHMITT ²
31-Mar	Thursday	8:00	9:00	The influence of locomotion and body mass on the primate ulna: new insights into behavioral postures in fossil taxa	JASON P. JUNG ¹ , MARC R. MEYER ² , JEFFREY K. SPEAR ^{3,4} , ISABELLA FX. ARAIZA ^{3,4} and SCOTT A. WILLIAMS ^{3,4}
				Exploring morphological variation of the shoulder girdle within and between extant non-human primates	MARIE VERGAMINI ¹ , LISA M. DAY ² , CHRISTINA MCGRATH ² , ERNESTO GAGARIN ² and AMY L. RECTOR ³

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				How can calcaneal shape help us infer locomotor behavior in extinct primates? A 3D geometric morphometric approach	ORIO L MONCLÁSS-GONZALO¹, DAVID M. ALBA¹, ANNE-CLAIRE FABRE² and JUDIT MARIGÀ¹
Bioarchaeology: Methodological advances part 1					
				Estimation of the age-at-death of subadults (0-5 years) based on craniofacial dimensions	ANDREJ A. EVTEEV¹, TAI SIYA A. SYUTKINA² and NIKOLAI E. STAROVEROV³
				Advances in Subadult Age Estimation: Evaluating the Performance of the Mixed Cumulative Probit (MCP) on Contemporary Subadults	ELAINE Y. CHU¹, CHRISTOPHER A. WOLFE¹, LOUISE K. CORRON¹, MICHAEL H. PRICE² and KYRA E. STULL¹
				Sicilia al centro: Ancient DNA analysis of key sites from medieval Sicily	IAN T. NOBLE, AURORE MONNEREAU, NATHAN WALES and MARTIN CARVER
31-Mar	Thursday	9:00	10:00	Paleohistopathology of Treponemal Disease in Human Bone from Taumako, Solomon Islands (700-300ybp)	KAREN M. COOKE¹, HALLIE BUCKLEY², REBECCA KINASTON², LAWRENCE KIKO³ and JUSTYNA J. MISZKIEWICZ^{1,4}
				Reassessing Clustering Parameters of Biological Affinities: Utilization of k-means to Understand Eurasian Population Variation	MAD ELYN K. GREEN¹, DANIEL FIDALGO² and MARK HUBBE^{1,3}
				A test of the Coimbra method of recording enthesal changes as applied to the foot skeleton	MALORIE E. ALBEE
				Biomolecular Evidence for Stress and the Death Experience in Ancient Nubia	SARAH A. SCHRADER
Genetics & Genomics: Populations Part 1					
				Genetic ancestry defies social organization in human populations of western Himalaya, India	ABHISHEK SINGH^{1,2}, VIVEK SAHAJPAL³, SATISH KUMAR¹ and MUKESH THAKUR²
				Indigeneity within datasets: DNA sequences journeys and genomic representations about the Karitiana (Yjxa) people	CARLOS ANDRÁS BARRAGÁN¹ and JAMES R. GRIESEMER²
				Estimating Pan demography from nucleotide site patterns	COLIN M. BRAND^{1,2}, FRANCES J. WHITE³, ALAN R. ROGERS⁴ and TIMOTHY H. WEBSTER⁴
31-Mar	Thursday	9:00	10:00	The feasibility of palaeoproteomics for studying ancient hominins from South Africa	PALESA MADUPE^{1,2}, NOMAWETHU HLAZO^{1,2,3}, PATRICK L. RATHER⁵, MEAGHAN MACKIE^{1,5}, FRIDO WELKER¹, JAZMIN RAMOS MADRIGAL⁶, IOANNIS PATRAMANIS⁶, FERNANDO RACIMO⁶, LAUREN SCHROEDER^{2,4}, JESPER V. OLSEN⁵, REBECCA R. ACKERMANN^{2,3} and ENRICO CAPPELLINI¹
				Co-creating a genomics project benefit-sharing plan: Results from a case study in M	RINDRA RAKOTOARIVONY¹, SARAH LEBARON VON BAEYER^{2,3} and ERIN E. BURKE³
				The Genetic Landscape of Samegrelo, Western Georgia (Caucasus)	THEODORE G. SCHURR¹, RAMAZ SHENGELIA², ARAM YARDUMIAN³, IAIN MATHIESON⁴, MICHEL SHAMOON-POOR⁵, DAVID CHITANAVA⁶, SHORENA LALIAHVILI⁶, IRMA LALIAHVILI⁶, REDATE KIBRET³ and YANU KUME-KANGOLO⁷

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31-Mar	Thursday	10:00	11:00	Functional Anatomy: Locomotion, Part 2	ANGEL ZEININGER and DANIEL SCHMITT
				The effect of grip type and tail placement on whole body mechanics during arm-swinging in <i>Ateles</i> and <i>Lagothrix</i>	BLAKE V. DICKSON ¹ , ANGEL ZEININGER ¹ , DANIEL SCHMITT ¹ and KEVIN D. HUNT ²
				Variation in retroflexion and cortical geometry along the primate humerus and their consequences for inferring biomechanical performance	EDWIN DICKINSON ^{1,2} , MARISSA L. BOETTCHER ^{1,3} and ADAM HARTSTONE-ROSE ¹
				Myological signals of handedness: bilateral asymmetry in the forearm muscles of non-human primates	JULIA ARIAS-MARTORELL ^{1,2} , GEORGINA RAVENTÁ-S-IZARD ¹ , AROA CASADO ³ , JUAN FRANCISCO PASTOR ⁴ , SALVADOR MOYÁ-SOLÁ ^{1,5,6} and JOSEP MÀ ³ POTAU ³
				Quantitative assessment of the influence of the glenoid labrum in the morphology of the glenoid cavity of the scapula in hominoids	VICTORIA A. LOCKWOOD ^{1,2} , SZU-CHING LU ^{2,3} , SAMANTHA WINTER ^{4,5} and TRACY L. KIVELL ^{2,6}
				Pressure generated by the modern human hand during vertical climbing	
31-Mar	Thursday	10:00	11:00	Paleoanthropology: Later Hominins	HILA MAY ^{1,2} , RACHEL SARIG ^{2,3} , GERHARD W. WEBER ^{10,5,9} , CINZIA FORNAI ^{4,5,6} , MARÁA MARTINÁ-N-TORRES ^{7,8} , JOSÁ M. BERMÁDEZ DE CASTRO ^{7,8} , YOSSI Z Aidner ¹¹ and ISRAEL HERSHKOVITZ ^{1,2}
				A new Levantine Middle Pleistocene paleodeme: the Nesher Ramla <i>Homo</i>	NICHOLAS W. POST ¹ , CARRIE S. MONGLE ^{1,2,3} and FREDERICK E. GRINE ^{1,4}
				Frontal sinus variation in Later Stone Age crania from South Africa	OSBJORN M. PEARSON ¹ , IAN J. WALLACE ¹ , TEA JASHASHVILI ^{2,3} , KRISTIAN J. CARLSON ² , STUART J. WARDEN ^{4,5} and JOHN G. FLEAGLE ⁶
				Cross-sectional geometry and bilateral asymmetry of Omo I humeri	SELIM NATAHI, SIMON NEUBAUER, ZEWDI J. TSEGAI, JEAN-JACQUES HUBLIN and PHILIPP GUNZ
				Covariation between cranial vault thickness and endocast shape in present-day humans and Neanderthals	STELLA BASINYI and REBECCA R. ACKERMANN
				Human origins in Southern Africa: Reflections on the influence of scientific narratives on society	TANIA KAPOOR and SUZANNA WHITE
				Craniofacial variation in early <i>Homo sapiens</i>	
31-Mar	Thursday	11:00	12:00	Forensic Anthropology: Exploring Terminology and Methods for Biological Profiles	ERIC FRAUENHOFER
				Linear regression analysis of patellar measurements for stature estimation is not suitable for forensic casework	FATIMAH BOUDERDABEN ¹ , MITCHELL ROSELIUS ² and KATE SPRADLEY ¹
				Variation of the Pubis Across Populations: A Geometric Morphometric Analysis	HANNAH M. DECKER
				Estimating Sex from the Diameter of the Femoral Neck	ISIS DWYER
				Limitations of Current Data and Methods for the Forensic Identification of Black Undocumented Immigrants	LIAM J. JOHNSON ¹ , TERESA V. WILSON ² and GINESSE A. LISTI ²
				Untangling Louisiana's unmissed: How forensic anthropologists can use population demographics to aid in identifications	MARIA ANA CORREIA ^{1,2} , ALINE OLIVEIRA ^{1,3} , LAURA L. FREITAS ² , LUANA SPÁ-SITO ² , JOB CARVALHO ² , RUI MURRIETA ² , ANDRÁ% STRAUSS ^{1,2} and RODRIGO OLIVEIRA ²
				Determination of biological sex through the lateral angle - A methodological improvement	MELANIE J. GRUENSTERN
				Exploring angles: A new method for sex estimation using the obturator foramen	

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
				Detangling pubis bone traits in sex estimation: The utility of pubis morphology prior to ventral arc expression	STEPHANIE J. COLE and KYRA E. STULL
The pelvis				Age related changes of pelvic shape in adulthood	LUKAS WALTEBERGER ^{1,2} , KATHARINA REBAY-SALISBURY ¹ and PHILIPP MITTEROECKER ²
31-Mar	Thursday	12:00	13:00	Diverse femoral biomechanical properties are interrelated among Later Stone Age Southern Africans	MADELYN HERTZ ¹ , JESSICA WOLLMANN ² and MICHELLE E. CAMERON ²
				Investigating adaptations to competing functions in the human pelvic floor	NICOLE TORRES-TAMAYO ¹ and NICOLE D.S. GRUNSTRA ^{2,3,4}
				The roles of natural selection and drift in the evolution of modern human pelvic form	PHILIPP MITTEROECKER ^{1,2} , NICOLE D.S. GRUNSTRA ^{2,3} , EKATERINA STANSFIELD ¹ , LUKAS WALTEBERGER ⁴ and BARBARA FISCHER ¹
				Greater clarity of obstetric sufficiency of the human pelvic inlet with control of body size	ROBERT G. TAGUE
				The Developmental Impacts of Natural Selection on Human Pelvic Morphology	TERENCE D. CAPELLINI ¹ , MARIEL YOUNG ² , DANIEL RICHARD ³ , MARK GRABOWSKI ⁴ , BENJAMIN AUERBACH ⁵ , BERNADETTE DE BAKKER ⁶ , JACO HAGOORT ⁷ , PUSHPANATHAN MUTHUIRULAN ⁸ , HELEN KURKI ⁹ , LIA BETTI ¹⁰ and KRISTI LEWTON ¹¹
Human Behavior: Applying Evolutionary Theory				Grip strength and mating success in US adults	CAROLINE B. SMITH and EDWARD H. HAGEN
				Masculine voice is associated with better mucosal immune defense in adolescent and adult males	CAROLYN R. HODGES-SIMEON ¹ , GRAHAM ALBERT ¹ , TIMOTHY MCHALE ¹ , STEVEN J.C. GAULIN ² , MICHAEL GURVEN ² , JESSICA K. HLAY ¹ and STEVEN A. ARNOCKY ³
31-Mar	Thursday	13:00	14:00	The evolution of early hominin food production and sharing	INGELA ALGER ^{1,2} , SLIMANE DRIDI ¹ , JONATHAN STIEGLITZ ¹ and MICHAEL L. WILSON ^{3,4,5}
				The Emergent Structure of Subsistence Risk-Management Networks	JAMES HOLLAND JONES ¹ and ELSPETH READY ²
				Hadza hunter-gatherers with greater exposure to other cultures preferentially share with generous campmates	KRISTOPHER M. SMITH ¹ and COREN L. APICELLA ²
				Riverine diet yesterday and today: self-perception of dietary transition at Caxiuana region, Pará, Brazil	MARIANA INGLEZ ¹ , MARK HUBBE ² , MARINA DALE ¹ , ANDRÉ% STRAUSS ³ , RUI MURRIETA ¹ and BÄRBARA PIPERATA ²
				How environmental uncertainty and correlated payoffs drive the evolution of social learning	MATTHEW A. TURNER ¹ , CRISTINA MOYA ^{2,3} , PAUL E. SMALDINO ⁴ and JAMES HOLLAND JONES ¹
Human Biology: Energetics & Physiology				Trunk muscle endurance, strength and flexibility in rural subsistence farmers and urban industrialized adults in western Kenya	BENJAMIN E. SIBSON ¹ , VICTORIA A. TOBOLSKY ¹ , TIMOTHY M. KISTNER ¹ , NICHOLAS B. HOLOWKA ^{1,2} , JOSPHINE JEMUTAI ³ , TIMOTHY K. SIGEI ⁴ , ROBERT MANG'ENI OJIAMBO ⁵ , PAUL OKUTOYI ⁶ and DANIEL E. LIEBERMAN ¹
31-Mar	Thursday	13:00	14:00	Quantifying Curves: a geometric morphometric approach to analyze ovarian hormones	DANIEL E. EHRlich ^{1,3} , MARY P. ROGERS-LAVANNE ⁴ , KATHARINE M.N. LEE ^{2,3} , VALERIE SGHEIZA ² , MEREDITH A. WILSON ² and KATHRYN B.H. CLANCY ²

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
Genetics & Genomics: Populations Part 2				Ancient dog mitochondrial lineages indigenous to North America recovered from Jamestown Colony	ARIANE E. THOMAS ¹ , ALIDA DE FLAMINGH ² , KELSEY E. WITT ³ , MATTHEW E. HILL, JR. ¹ , RIPAN S. MALHI ² and ANDREW KITCHEN ¹
31-Mar	Thursday	17:00	18:00	When did the C677T mutation reach its high frequencies in Europe? A pilot study using ancient DNA samples	JAMIE ZOLIK ^{1,3} , XIAOMING LIU ² and LORENA MADRIGAL ³
				Pharmacogenetic variation in archaic and modern humans	KELSEY E. WITT ^{1,2} , TADEUSZ H. WROBLEWSKI ³ , SEUNG-BEEN LEE ⁴ , RIPAN S. MALHI ^{5,6} , EMILIA HUERTA-SANCHEZ ^{1,2} , FERNANDO VILLANEVA ⁷ and KATRINA G. CLAW ³
				Sharing of CYP450 genes between archaic hominins and modern Africans	KOLONJIA D. THILLOT and FERNANDO A. VILLANEVA
				Unraveling demographic history and complex trait architecture from 6,000 Mexican genomes	MASHAAL SOHAIL ^{1,2,3} , AMANDA Y. CHONG ⁴ , MARIA J. PALMA ¹ , CONSUELO D. QUINTO-CORTES ¹ , AARON RAGSDALE ¹ , SANTIAGO G. MEDINA ¹ , GUADALUPE DELGADO-SANCHEZ ⁵ , LUIS P. CRUZ-HERVERT ^{5,6} , LETICIA FERREYRA-REYES ⁵ , HORTENSIA MORENO-MACÃAS ^{7,8} , CARLOS A. AGUILAR-SALINAS ⁹ , ADRIAN CORTES ¹⁰ , SELENE L. FERNANDEZ-VALVERDE ¹ , VICTOR ACUÃA-ALONZO ¹¹ , GENEVIEVE WOJCIK ¹² , CHRISTOPHER R. GIGNOUX ¹³ , CARLOS D. BUSTAMANTE ¹⁴ , ADRIAN HILL ^{15,4} , MARIA T. TUSIE ^{7,8} , ALEXANDER J. MENTZER ^{10,4} , JOHN NOVEMBRE ^{16,2} , LOURDES GARCÃA-GARCÃA ⁵ and ANDRÃS MORENO-ESTRADA ¹
				MaAdapt reveals novel targets of adaptive introgression in worldwide human populations	XINJUN ZHANG ¹ , ARMAAN SINGH ⁴ , ARUN DURVASULA ⁵ , BERNARD KIM ³ and KIRK LOHMUELLER ^{1,2}
Functional Anatomy: Below the Belt				Assessing the Relationship Between Biomechanical Stress and Double-Zonal Osteons	AILEEN FLANERY and DAWN MULHERN
1-Apr	Friday	8:00	9:00	A new method for quantifying 3D anatomy of living subjects using low-dose stereo radiographs	AUSTIN B. LAWRENCE ¹ , MELANIE E. BOEYER ² and KEVIN M. MIDDLETON ¹
				Preliminary Investigation of Relationships between Sex, Body Size, and Inorganic Content of Human Tibiae	CARLA L. GOLDSMITH, ANGELA L. HARDEN and MANDY AGNEW
				Elastic energy contribution of the hip joint capsular ligaments to human walking mechanics	HAYDEN MOSES ¹ , MADISON BERG ² and MATTHEW C. O'NEILL ²
				Percentage of Collapsed Vertebrae Found Within a Skeletal Sample of Individuals Aged Fifty-Five and Older	JAYLA D. CAMPBELL
				Trabecular structure in the distal femur and patella of foraging and post-industrial groups from South Africa	KIMBERLEIGH A. TOMMY ¹ , LYNNE SCHEPARTZ ¹ , BERNHARD ZIPFEL ³ and KRISTIAN J. CARLSON ^{2,3}

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Date	Day	Start Time (Mountain)	End Time (Mountain)	Presentation Title	Authors
Paleoanthropology: Non-Human Primates					
1-Apr	Friday	9:00	10:00	Semicircular canal morphology of the Miocene small-bodied catarrhine <i>Pliobates cataloniae</i> : Phylogenetic implications	ALESSANDRO URCIUOLI ¹ , CLÀMENT ZANOLLI ² , FLORIAN BOUCHET ¹ , SERGIO ALMÀ ^{3,4} , SALVADOR MOYÀ-SOLÀ ^{5,6} and DAVID M. ALBA ¹
				New dental remains of the Miocene small-bodied catarrhine <i>Pliobates cataloniae</i>	FLORIAN BOUCHET ¹ , CLÀMENT ZANOLLI ² , SERGIO ALMÀ ^{3,4} , JOSEP FORTUNY ¹ , JOSEP M. ROBLES ¹ , AMÀLIE BEAUDET ^{1,5,6} , SALVADOR MOYÀ-SOLÀ ^{1,7,8} and DAVID M. ALBA ¹
				Earliest fossil evidence of <i>Theropithecus oswaldi</i> lineage from Galili Formation	HAILAY G. REDA ¹ , STEPHEN R. FROST ¹ , EVAN A. SIMONS ² , JAY QUADE ³ , HASSEN SAID ⁴ and SCOTT W. SIMPSON ^{5,6}
				Adapiform internal nasal anatomy and implications for crown Primates	INGRID K. LUNDEEN
				To boldly go where no primate has gone before: Dental topography and enamel thickness illuminate the dietary adaptations of paromomyid plesiadapiforms from Ellesmere Island, Arctic Canada	KRISTEN E. MILLER and K. CHRISTOPHER BEARD
				Morphological variation in the femur of <i>Theropithecus oswaldi</i> from Koobi Fora and Olduvai Gorge	LESLEY H. EASON, LUCAS K. DELEZENE and J. MICHAEL PLAVCAN
Bioarchaeology: Methodological advances part 2					
1-Apr	Friday	11:00	12:00	Curating the history of museum collections: Using metadata in research design	ANDREA R. ELLER ¹ , RITA M. AUSTIN ^{1,2} , STEPHANIE L. CANINGTON ³ , COURTNEY A. HOFMAN ^{1,4,5} and SABRINA B. SHOLTS ¹
				Biocultural interpretations of skeletal and archival indicators of health in enslavement in Barbados	ANDREANA S. CUNNINGHAM ¹ and KRISTINA A. SHULER ²
				Bilateral asymmetry and sexual dimorphism in the human cranium	ANTONIETTA DEL BOVE ^{1,2} , ANTONIO PROFICO ³ , MARINA MELCHIONNA ⁴ , PASQUALE RAIÀ ⁴ and CARLOS LORENZO ^{1,2}
				Development of an Excel spreadsheet for the Skeletal Health Index and application to a modern marginalized individual	KARA D. BOND and OSBJORN M. PEARSON
				Unusual Lives, Unusual Deaths: Integrating Osteology and Orientation in the Study of Early Medieval Deviant Burials	LAUREN HOSEK ¹ and AUSTIN MASON ²
				Assessment of morphological cranial and mandibular traits for sex estimation in southern African Holocene San and Khoekhoe populations	SADIYAH MALEK ¹ , VICTORIA E. GIBBON ¹ and JUDITH C. SEALY ²
				Metabolic diseases in Non-adults from Neolithic Chuwan (ca. 6000-4400 BP), Henan Province, China	ZIYI LI ¹ , REBECCA GOWLAND ¹ , TINA JAKOB ¹ and TAO WANG ²
Human Biology: Health & Disease					
1-Apr	Friday	12:00	13:00	Linking human sex chromosome evolution to patterns of gene co-expression and sex differences in disease	ALEX DECASIEN ¹ , KATHRYN TSAI ¹ , SIYUAN LIU ¹ , ADAM THOMAS ² and ARMIN RAZNAHAN ¹
				Scurvy and its presence in an Early/Middle Transition (500-200 B.C.) California Shell Mound Cemetery	ALYSON C. CAINE ^{1,3} , CHRISTOPHER CANZONIERI ² and DANIEL SHOUP ³
				A diachronic analysis of Mseleni Joint Disease: Environmental conditions and gender-linked domestic practices as risk factors	ELIZABETH S. DINKLE ¹ , ROBEA BALLO ² , VICTOR FREDLUND ³ and VICTORIA E. GIBBON ¹

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				Screen time and poor cardiometabolic health: the potential role of circadian disruption	JANELLE M. WAGNILD and TESSA M. POLLARD
				Seasonal Variation for Parasitic Infection among Yucatec Maya Children	LAUREN CHRISTOPHER ¹ , AMANDA VEILE ¹ and KAREN KRAMER ²
				Human immune variation and the future of sepsis management: Proposal of a non-infectious autoimmune sepsis phenotype	MARIA L. COX ^{1,2} and J. GRACE SHAW ¹
				The Effect of Food Insecurity on Oral Health	PAMELA S. WHYMS ¹ , AFSAR NAQVI ² , DERIC TRUSKOSKI ³ , ARACELI VALVERDE ESTEPA ² , SAHAR ALRAYYES ³ , SLOAN WILLIAMS ¹ , CHAD SILVER ³ , SARIA AWADALLA ⁴ and CHRISTINA NICHOLAS ^{1,5}
				Rural Embodiment and Child Health (REACH) Study: Effects of resource access and macroparasite exposure on intestinal inflammation among children from rural Mississippi	TARA J. CEPON-ROBINS ¹ , ELIZABETH K. MALLOTT ² , ISABELLA C. RECCA ¹ and THERESA E. GILDNER ³

Primateology: Play, Social Structure, and Mating

				It's not you, it's...just random: mate change in pair-living, genetically monogamous primates (<i>Aotus azarae</i>)	ALBA GARCIA DE LA CHICA ¹ , CAROLA BORRIES ² and EDUARDO FERNANDEZ-DUQUE ³
				Consequences of parental loss and unstable social environments on offspring survival, feeding and playing in gelada monkeys (<i>Theropithecus gelada</i>) at Guassa, Ethiopia	CARRIE M. MILLER ¹ , NGA NGUYEN ^{2,3} , PETER J. FASHING ^{2,3} and MICHAEL L. WILSON ^{1,4,5,6}
1-Apr	Friday	13:00	14:00	The value of aggression in maintaining a multilevel society	KATARINA D. EVANS ^{1,2} , SHAHRINA CHOWDHURY ^{1,2,3} and LARISSA SWEDELL ^{1,2,4,5}
				Playing with purpose: sex differences in social play among wild adult chimpanzees (<i>Pan troglodytes schweinfurthii</i>)	KRIS H. SABBİ ^{1,2,3} , MEGAN F. COLE ² , SOPHIA E. KURILLA ³ , ASHLEY MENANTE ⁵ , ISABELLE G. MONROE ⁴ , MELISSA EMERY THOMPSON ^{2,6} , MARTIN N. MULLER ^{2,6} , EMILY OTALI ⁶ , RICHARD W. WRANGHAM ^{5,6} and ZARIN P. MACHANDA ^{1,3,6}
				Understanding the social functions of genito-genital rubbing in female bonobo relationships	MICHELLE A. RODRIGUES ¹ , EMILY R. BOEVING ² and JESSICA T. WALZ ^{3,4}
				Presence of former leader males improves infant survival in geladas	SHARMI SEN ¹ , AMY LU ² , NOAH SNYDER-MACKLER ^{3,4} , THORE J. BERGMAN ^{5,6} and JACINTA C. BEEHNER ^{1,5}
				Social relationship quality predicts coalition formation among adult female chimpanzees at Kanyawara, Kibale National Park, Uganda	STEPHANIE A. FOX ¹ , DREW K. ENIGK ¹ , ZARIN P. MACHANDA ² , MARTIN N. MULLER ¹ , EMILY OTALI ³ , NICOLE THOMPSON GONZÁLEZ ⁴ , RICHARD W. WRANGHAM ⁵ and MELISSA EMERY THOMPSON ¹

Human Behavior: Stress, Mental Health, & Coping

				The Relationship Between Alzheimer's Disease Memory Symptoms and Caregiver Burden Differs in Mexico and the United States	ERIC E. GRIFFITH
				Depression and suicidality as credible signals of need in the face of adversity	MICHAEL R. GAFFNEY ¹ , KAI H. ADAMS ² , KRISTEN L. SYME ³ and EDWARD H. HAGEN ¹
				COVID-19 and Food Insecurity Among Resource Insecure University Students: An Applied Life History Perspective	MIRIAM C. KOPELS and CASEY J. ROULETTE
1-Apr	Friday	15:00	16:00	Understanding women's support for patriarchal gender norms in Taiwan and China	RENÉE V. HAGEN and H. CLARK BARRETT

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				Sex-specific relationships between 17 β -estradiol and depression in an aging adult population of forager horticulturalists	STEPHANIE V. KOEBELE ¹ , THOMAS KRAFT ² , ANGELA R. GARCIA ¹ , DANIEL K. CUMMINGS ³ , HILLARD KAPLAN ³ , MICHAEL GURVEN ⁴ , JONATHAN STEIGLITZ ⁵ and BENJAMIN C. TRUMBLE ^{1,6}
				Coping with Discrimination and Stress: Creative Activity and Health Among a Sample of Transgender and Gender Diverse people in the U.S	TIAN WALKER ¹ , KELSI KUEHN ¹ , ALICIA DELOUIZE ¹ , JAE A. PUCKETT ² , DEBRA HOPE ³ , ROBERT-PAUL JUSTER ⁴ , RICHARD MOCARSKI ⁵ and L. ZACHARY DUBOIS ¹
				Evolutionary déjà-vus: Why did size reduction evolve multiple times within primates?	ANNA PENNA ¹ , JAMES P. HERRERA ² and LUCA POZZI ¹
				Diet quality in elusive species: Using near-infrared spectroscopy to predict diet quality in <i>Otolemur crassicaudatus</i>	CHRISTINA M. RYDER ¹ , MICHELLE L. SAUTHER ¹ , FRANK P. CUOZZO ^{2,3} , RAVEN JAYNE ¹ and MATT SPONHEIMER ¹
				The Power of the Senses: Using Ecological Niche Modeling to Evaluate the Role of Sensory Drive in the Divergence of Dwarf Galagos (<i>Paragalago</i> spp.)	EVAN MILLER ¹ , AVEREE LUHRS ¹ , MARY BLAIR ² and LUCA POZZI ¹
				The dental ecology and oral biology of a population of wild <i>Otolemur crassicaudatus</i> from the Lajuma Research Centre, South Africa	FRANK CUOZZO ^{1,2} , JOHN K. DALTON ³ , MICHELLE L. SAUTHER ³ , ADRIAN SW. TORDIFFE ⁴ and ILANA VAN WYK ⁵
				Distribution, population density and behavior of Taita Dwarf Galago	HANNA ROSTI ^{1,2} , JANNE HEISKANEN ³ , SIMON BEARDER ⁴ , PETRI PELLIKKA ^{3,5} and JOUKO RIKKINEN ^{1,2,5}
				A new distribution area of bushbabies, <i>Galagoides demidovii</i> (<i>Galagidae</i> , Primates) in Kinshasa, D.R. Congo	JERRY B. NKENKU and JEAN M. MALEKANI
				Cognitive foraging patterns in two sympatric species of South African galago	JOHN K. DALTON ¹ , MICHELLE L. SAUTHER ¹ and FRANK P. CUOZZO ^{2,3}
				A review of the general ecology and physiology of the lesser African bushbaby (<i>Galago moholi</i>): new information, changing paradigms and future research opportunities	JUAN SCHEUN
				Unlocking the past: museomics of African galagids	LUCA POZZI ¹ , KAYLA PRINGLE ¹ , ANNA PENNA ¹ , KATHRYN M. EVERSON ² , DAVID W. WEISROCK ² and MARY E. BLAIR ³
				The effect of body size on the behavioral ecology of two sympatric bushbabies in an Afromontane habitat	MICHELLE L. SAUTHER ¹ , JAMES B. MILLETTE ¹ , FRANK P. CUOZZO ^{2,3} , CHANNEN LONG ⁴ and VÆMBONI HARRY MSIMANGO ⁵
				A moonlit dinner: Comparative gum feeding ecology of two sympatric galagos (<i>Otolemur crassicaudatus</i> and the <i>Galago moholi</i>) living in an afromontane temperate environment	RAVEN W. JAYNE ¹ , MICHELLE L. SAUTHER ¹ , JAMES B. MILLETTE ¹ , BENTLEY SCHOLZ ¹ and FRANK P. CUOZZO ^{2,3}
				What behavioral and biological traits are constraining social state evolution across Lorisiformes?	STEPHAINE A. POINDEXTER ^{1,2} , KEELY Q. MAYNARD ¹ , VINCENT NIJMAN ² and K.A.I. NEKARIS ^{1,2}
				Patterns of postcranial sexual size dimorphism in non-captive thick-tailed bushbabies (<i>Otolemur crassicaudatus</i>) from northern South Africa	STEVEN R. LEIGH ¹ , MICHELLE L. SAUTHER ¹ , FRANK P. CUOZZO ^{2,3} and ADRIAN SW. TORDIFFE ⁴

What They Do in the Shadows: New Perspectives on Africa's Nocturnal Bushbabies

No live session will be scheduled for this symposium.