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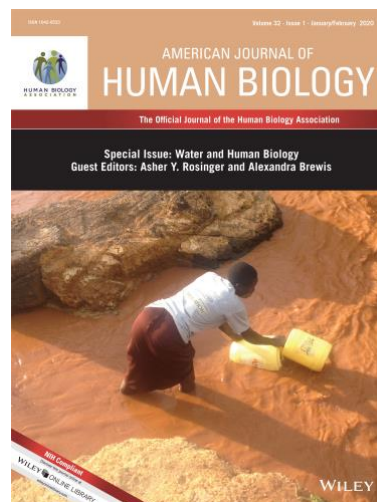
Melanie Martin (2019-2021)

Nicola Hawley (2019–2023)

Babette Zemel (2017–2021)

William Leonard (Editor, AJHB; ex officio)

WILEY



GREETINGS FROM HBA PROGRAM COMMITTEE CHAIR!

The 46th Annual Meeting of the Human Biology Association will be held virtually from Monday, March 28- to Friday April 2, 2021. Most sessions will be 11:00 am-5 PM EST. We chose this timeframe to maximize convenience for our members across different time zones. We are happy to provide a reduced registration costs and can receive registrations through the conference but to guarantee access at the start, please register before March 20th. Non-members who register for the meeting are also welcome to attend. Our conference planner, NomadIT will be hosting a training session for our primary online platform, Shindig. You can also check out their demo on www.shindig.com.

The meetings open with the **Plenary Session**, “The normal and the normative in human biology” organized by Jennifer Cullin and Virginia Vitzthum. This session brings together researchers from diverse backgrounds to tease apart the statistical, cultural and clinical conceptualization of “normal” in relation to a variety of biological markers ranging from bone health to ovarian function. This year’s **Raymond Pearl Memorial Speaker** is **Dr. Andrea Wiley**. She will present “**Biological Normalcy: A new way forward for biocultural analysis of human population variation**” at 3:45 PM on Monday, March 28. Dr. Wiley is a Professor of Anthropology at Indiana University at Bloomington and a former HBA President and Secretary/Treasurer. Her research explores feedback relationships between cultural norms and population biology. Specifically, she has focused on the relationship between non-human milk consumption and child growth, how this may have contributed to the evolution of alleles for milk digestion, and how ideas about milk and growth have played a role in the current global spread of milk drinking.

The **Poster Session** will be open for the entire conference, with presenters available via Zoom on Tuesday, March 29 from 11:00 am -3:00 PM EST. The posters will be posted on <https://virtualpostersession.org/>. Two exciting **Breakout Sessions** will occur between 1:00-2:00 PM EST, one on engaging marginalized communities and the other session on science communications by our student representatives. Following the poster session, a student reception will take place on Shindig from 3:30-5:00 PM EST on Tuesday, March 29.

Wednesday and Thursday will hold contributed podium presentations on a variety of topics and will hold one session dedicated to student presentation. Wednesday afternoon we will have a special networking and community building session organized by the students and junior service fellows. Thursday afternoon we will have our awards ceremony and reception. Congratulations to this year’s Boas awardee Bill Leonard and Little awardee Zachary DuBois!

The conference closes on Friday, April 2 with a new feature – Place Based Human Biology. This year’s focus is Mexico and features work by our colleagues at Institutions in Mexico. The session includes both podium and poster presentations. The posters will be available throughout the week, but presenters will be available for questions FROM 1:30-3:00 PM EST on Friday, April 2. Thank you to Alejandra Núñez-de la Mora for making this session a reality.

A detailed schedule of presentations and events, abstracts, and an index of presenters follow this summary and is also available at www.humbio.org.

Thank you to the 2020 HBA Program Committee members, Dan Eisenberg, Morgan Hoke, Asher Rosinger, Zaneta Thayer and Sharon Williams. A special thanks to the *American Journal of Human Biology* and to Wiley for their sponsorship of the meetings. We welcome you to the meetings, thank you for your participation in this exciting group of presentations and events, and sincerely hope that you enjoy this year's virtual program!

Gillian Ice
HBA Program Committee Chair

46th Annual Meeting
HUMAN BIOLOGY ASSOCIATION
PROGRAM SUMMARY
Virtual
All times EASTERN STANDARD TIME (EST)

Sunday, March 28, 2021

TRAINING SESSIONS

MONDAY, MARCH 29, 2021

- | | |
|------------------|--|
| 11:00 AM-1:15 PM | OPENING WELCOME
Catherine Panter-Brick, President of the Human Biology Association |
| | INTRODUCTION TO PLENARY SESSION
Jennifer M Cullin and Virginia J. Vitzthum, Organizers |
| 11:15 AM–5:00 PM | PLENARY SESSION
The Normal and the Normative in Human Biology
Jennifer M Cullin and Virginia J. Vitzthum, Organizers |
| 12:45 PM-1:30 PM | COFFEE BREAK |
| 3:30 PM-3:45 PM | COFFEE BREAK |
| 3:45 PM-4:45 PM | RAYMOND PEARL MEMORIAL LECTURE
Biological Normalcy: A New Way Forward for Biocultural Analysis of Human Population Variation
Andrea S. Wiley |

Tuesday, March 30, 2021

- | | |
|--------------------|--|
| 11:30 AM- 1:00 PM | POSTER SESSION (A-L Authors present)
Chair, Gillian Ice |
| 1:00 PM to 2:00 PM | BREAKOUT SESSION 1
Establishing Best Practices for Engaging Underrepresented, Minority, and Marginalized Communities
Nicola Hawley and Stephen McGarvey, Organizers |

1:00 PM to 2:00 PM **BREAKOUT SESSION 2**
The Art of Science Communication: From storytelling to
#SciComm
Kyle Gowen and Carlye Chaney, Organizers

2:00 PM-3:30 PM **POSTER SESSION (M-Z Authors present)**
Chair, Gillian Ice

3:30-5:00 PM **STUDENT RECEPTION**

Wednesday, March 31, 2021

11:00 AM-12:30 PM **PODIUM SESSION A: Biocultural Approaches to Human Health**
Chair, Sharon Williams

12:30 PM-1:15 PM **COFFEE BREAK (45min)**

1:30 PM -3:00 PM **PODIUM SESSION B: Contexts of Human Biology**
Chair, Asher Rosinger

3:30 PM-5:00 PM **COMMUNITY BUILDING AND NETWORKING**

Thursday, April 1, 2021

11:00 AM-12:30 PM **PODIUM SESSION C: Human biology and Structural Inequalities**
Chair, Zaneta Thayer

12:30 PM-1:15 PM **COFFEE BREAK (45min)**

1:30 PM-3:00 PM **PODIUM SESSION D: Environment and Human Biology**
Chair, Dan Eisenberg

3:45 PM-5:30 PM **AWARDS CEREMONY/RECEPTION**

Friday, April 2, 2021

11:00 AM-12: 15PM	PLACE BASED PODIUM SESSION: Mexico Chair, Alejandra Núñez-de la Mora
12:15 PM-1:00 PM	COFFEE BREAK
1:00 PM-2:30 PM	PLACE BASED HUMAN BIOLOGY POSTER SESSION
2:30 PM -3:30 PM	COFFEE BREAK
3:30 PM-5:00 PM	BUSINESS MEETING

AAPA Joint Session

Thursday April 8, 10am-12pm eastern, HBA-AAPA Joint Symposium: Human responses to climate change: What anthropologists want climate scientists and policymakers to know (Session chair: Anne C. Pisor)

Thursday April 8, 4-6pm eastern, HBA-AAPA Joint Symposium: 20 Years of the Human Genome: Insights into Human Population History, Biology and Health (Session chair: Serena Tucci)

**46TH ANNUAL MEETING
HUMAN BIOLOGY ASSOCIATION
PROGRAM SUMMARY
Virtual**

Sunday, March 28, 2021

TRAINING SESSIONS

Monday, March 29, 2021

11:00 AM–11:15 PM

OPENING WELCOME

Catherine Panter-Brick
President of the Human Biology Association

INTRODUCTION TO PLENARY SESSION

Jennifer M Cullin and Virginia J. Vitzthum, Organizers

11:15 AM–5:00 PM

PLENARY SESSION

The normal and the normative in human biology

Organizers: Jennifer M Cullin and Virginia J. Vitzthum

The term “normal” is used frequently to describe human biological features, yet this characterization is often uncontested by many, including human biologists who seek to understand population variation in human biology and its underlying causes. Normal has two meanings in human populations: statistical norms (i.e., measures of central tendencies and population distributions) and culturally shaped normative views about what bodies “should” be like. The latter often give rise to what has been termed ethno-biocentric views about human biology that reflect cultural biases about what is “normal.” Normal is also often equated with “healthy,” especially regarding biomarker cut-offs for determining normal/healthy vs. abnormal/potential pathology. Assumptions about what constitutes normal human biology have pervaded biomedical research, the shortcomings of which have been recognized in successive NIH mandates since the 1990s to include more women, ethnic diversity, and most recently, age diversity in clinical trials.

In this plenary session each speaker highlights a different human biological feature, the ways in which it is known to vary, and how certain versions of it are understood to be normal, illustrating what is known about its statistical distribution, exposing normative meanings, and identifying the scientific foundations (or lack thereof) for them (i.e. is a particular “normal range” associated with meaningful differences in health outcomes compared to those outside of this “normal range?”). Furthermore, the speakers will consider if there is a relationship between statistical norms and normative views. The

plenary topics include: Weight, height, skin color, sex-related bone health, ovarian functioning, pregnancy health guidelines, diet, and “race.”

- 11:15 AM-11:45 PM **Human biological variation and the “normal”**
JL Graves Jr
- 11:45 AM-12:15 PM **The color of normal: how a focus on lighter skin masks pigmentation diversity.**
HL Norton
- 12:15 PM-12:45 PM **What is normal bone health? A bioarchaeological perspective on meaningful measures and interpretations of bone strength, loss, and aging.**
S Agarwal
- 12:45 PM-1:30 PM **COFFEE BREAK**
- 1:30 PM-2:00 PM **One size does not fit all. How universal standards for normal height can hide deprivation and create false paradoxes.**
D Hruschka
- 2:00 PM -2:30 PM **Statistical norms and normative beliefs around body fat in the U.S.**
J Cullin
- 2:30 PM-3:00 PM **Investigating the normalization and normative views of gestational weight gain: balancing recommendations with the promotion and support of healthy pregnancy diets.**
T Moffat, L McKerracher, S Oresnik, DM Barker, Mothers to Babies (M2B) Affiliated Research Investigators, DM Sloboda
- 3:00 PM-3:30 PM **Menstrual myth: ethno-biocentrism and scientific sterility.**
VJ Vitzthum
- 3:30 PM-3:45 PM **COFFEE BREAK**
- 3:45 PM-4:45 PM **RAYMOND PEARL MEMORIAL LECTURE**
Biological Normalcy: A new way forward for biocultural analysis of human population variation
AS Wiley

Tuesday, March 30, 2021

11:00 AM-1:00 PM
1:00 PM to 2:00 PM

POSTER SESSION (A-K Authors present)

BREAKOUT SESSION 1

Establishing Best Practices for Engaging Underrepresented, Minority, and Marginalized Communities
Nicola Hawley and Stephen McGarvey, Organizers

1:00 PM to 2:00 PM

BREAKOUT SESSION 2

The Art of Science Communication: From storytelling to #SciComm
Kyle Gowen and Carlye Chaney, Organizers

2:00 PM -3:00 PM

POSTER SESSION (L-Z Authors present)

1. **Ethnic Tibetan mothers with larger lungs experience fewer child deaths.**
K Sarna, D Witonsky, S Craig, KP Strohl, B. Basnyat, A Di Rienzo, CM Beall
2. **Sex differences in the development of adiposity among Pume Foragers.**
BC Campbell, KL Kramer, Achenbach
3. **Serum estradiol levels show no impact of developmental conditions among adults. women.** C Chaney, K Begum, A Núñez-de la Mora, LL Sievert, S Muttukrishna, V Harries, T Sharmeen, L Murphy, R Gunu, O Chowdhury GR Bentley
4. **Use of social media and digital technologies and perceptions of body size in a market-integrating population in Argentina.** K Daiy, T Frieson, L Palacio-Londono, I Barnes, SI Olmedo, P Aranda, F Cirigliano, C Vallengia
5. **Women's lifetime reproductive profiles and frailty among aging populations in the US and the Philippines.** MJ Escasa-Dorne, L Walters, R Zoorob
6. **Metabolic adaptations in an indigenous Siberian population in relation to metabolic hormones.** V Figueroa, SB Levy, TM Klimova, RN Zakharova, AI Fedorov, VI Fedorova, ME Baltakhinova, WR Leonard
7. **Stressed and growing? A systematized review of the relative effects of energetic and psychosocial factors determining human female pubertal timing.**
DJ Glass, JT Geerkens, MA Martin
8. **Factors driving changes in breastfeeding practices among Bangladeshi migrant women in the UK.** V Harries, C Chaney, T Sharmeen, GR Bentley, A Núñez-de la Mora.

9. **Changes in birth and perinatal care practices among Hadza mothers in a transitioning food economy.** KN Herlosky and AN. Crittenden
10. **Serum Levels of C-Reactive Protein and Anti-Müllerian Hormone, Follicular-Stimulating Hormone, and Inhibin-B in Women Attempting Pregnancy.** AM Long, AL Thompson, AMZ Jukic, JR Jahnke4, AZ Steiner
11. **Testing the Hygiene Hypothesis Among Older Adults Residing in the United States.** CJ Manthey-Pierce, TJ Cepon-Robins
12. **From slavery times to Jim Crow days (1820-1907): reassessing skeletal stress indicators and their implications for population health in the Freedman's Cemetery population, Dallas, TX.** SM McCrane, MH Fry, JM Davidson
13. **Evolution of cranial macromorphoscopic trait variation in modern humans.** H Reyes-Centeno, JT Hefner
14. **Estimating brown adipose tissue activity for a study of hot flashes.** LL Sievert, SI Shreyer, DE Brown
15. **Don't sweat it: The biocultural relationship between stress and smell.** JG Sponholtz, AE Guitar
16. **Sedentarization of semi-nomadic pastoralists: The association between movement strategy and indicators of cardiometabolic health and market integration.** ZS Swanson, H Bethancourt, J Saunders, R Nzunza, E Ndiema, D Braun, AY Rosinger, H Pontzer
17. **Individual effects do not cycle day effects, drive variation of urinary C-reactive protein across the menstrual cycle in a sample of Polish American women.** MA Wilson, KMN Lee, MP Rogers, KBH Clancy
18. **Infant mortality risk associated with decreased male commitment and shorter interbirth intervals among American births.** KG Anderson
19. **Care analysis on human skeletal remains from a post-medieval London cemetery.** PN Arnett
20. **Gene expression profiles indicating inflammation and glucocorticoid resistance during pregnancy predict greater offspring adiposity shortly after birth in Cebu, Philippines.** JE Aronoff, CW Kuzawa, & TW McDade
21. **Food production and nutritional problems in Argentina: Analysis and integration of biological and cultural factors.** Bajo, J Manuel

22. **Human vitamin C deficiency: implications for COVID-19 and the cytokine storm.** CA Belhadi
23. **Fear, violence, inequality and stunting in Guatemala.** B Bogin, M Hermanussen, C Scheffler
24. **Socioeconomic Determinants of Breastfeeding Intentions and Duration Among African American Women in Central North Carolina.** J Carrier, A Nulty, K Nicholas, AL Thompson, H Wasser, ME Bentley
25. **A critical evaluation of a point-of-care device for measuring intestinal inflammation in remote field settings.** TJ Cepon-Robins, IC Recca, TE Gildner
26. **Maturation of the menstrual cycle in healthy adolescent girls from El Alto, Bolivia.** EM Chester, MC Key, and VJ Vitzthum
27. **The role of individual and subjective neighborhood socio-cultural identity and ethnic attitudes in maternal mental health in a pregnant Latina population.** KJ Chua, DA Knorr, J Jimenez, V Rojas, A Francia, JI Garcia, & MM Fox
28. **Interrelationships between blood pressure and lipid profile characteristics among postmenopausal women at Naxalbari in Darjeeling, West Bengal.** S Datta Banik
29. **The impact of food and diet on mental health of immigrants from a biocultural perspective.** SH Elshahat
30. **Coping strategies for water insecurity and their relation to dehydration, diarrhea, and injury.** L Ford, HJ Bethancourt, ZS Swanson, R Nzunza, E Ndiema, D Braun, H Pontzer, AY Rosinger
31. **Limited evidence of a threshold effect for increasing adiposity on risk of symptoms at midlife.** LM Gerber, BW Whitcomb, M Verjee, LL Sievert
32. **Atopic conditions, IgE levels, and inflammation among children from rural Mississippi.** TE Gildner, IC Recca, TJ Cepon-Robins
33. **A scoping review stable isotope analysis in human biology.** S Holder
34. **Perceived social isolation, mental health, and nail cortisol: A study of refugees in Serbia.** J Jankovic, RC Oka, Jerrold S Meyer, Lee T Gettler
35. **Formative assessment demonstrates effect of inquiry-based labs on student understanding of evolution and the scientific method in introductory biological anthropology.** SL Johnston, M Knabb, J Auld, L Rieser-Danner

36. **Sex differences in sleep patterns among mobile foragers: An intra-community comparison of village and forest sleep of BaYaka foragers of the Congo Basin.**
E Kilius, DR Samson, S Lew-Levy, MS Sarma, LT Gettler, A Boyette
37. **Evaluating the Mental Health Impacts of the COVID-19 Pandemic: Adult Depressive Impacts of Perceived Risk of COVID-19 Infection is Associated with Childhood Trauma in Urban South Africa.** AW Kim, T Nyengerai, Emily Mendenhall
38. **Accuracy of anthropometry-based equations versus air-displacement plethysmography for the estimation of fat mass in rural Gambian infants.**
OL Kimes, AM Doel, DJ Naumenko, JR Washabaugh, SE Moore, RM Bernstein
39. **Pathogens, not altitude impact milk composition among high altitude living ethnic Tibetans.** EA Quinn, G Childs
40. **C-peptide varies across the menstrual cycle in a sample of healthy adult women.**
KMN Lee, MP Rogers-Lavanne, A Galbarczyk, G Jasienska, KBH Clancy
41. **Secular trends in adult female height and weight in Nuñoa, Peru 1964-2018.**
NM Mayer¹, MK Hoke
42. **Sexual orientation and immune function: exploring the protective role of sleep on Epstein Barr Virus antibody levels among young American adults.** L McKinnon, K Mikelsteins, JK Gibb
43. **Where does the newborn baby sleep? Prevalence and predictors of postpartum cosleeping practices after midwife-led births in the United States.** KA Meighan, ML Bovbjerg, DC Benyshek, M Cheyney, AN Crittenden
44. **Disparities in Respiratory Health Among Sexual Minorities NHANES 2007-2012.**
K Mikelsteins, D Vigue, L McKinnon, & JK Gibb
45. **Influence of eosinophil counts on metabolic markers of disease among Amazonian people residing in Yurimagus Peru – a pilot study.** MJ Mosher, JC Gerhold
46. **Predictors of seroprevalence of SARS-CoV-2 antibodies in American college students.** A Sancilio, LT Hoyt, TW McDade, B Dull, AK Cohen
47. **Comparison of methods for isolating extracellular vesicles from human breast milk for analyzing miRNA variation.** KR Myers, P DeHoff, LC Laurent, AL Non
48. **Seasonal acclimatization of BAT activity through increased metabolic efficiency and glucose utilization in the winter.** AM Niclou, C Ocobock

49. **Biocultural strategies among reindeer herders for coping with a cold, rapidly changing Arctic.** C Ocobock, P Soppela, M Turunen, V Stenbäck, KH Herzig, R Rimbach, H Pontzer
50. **Seeking support for displacement-related stress is associated with variation in non-communicable disease risk indicators in a South Pacific island population displaced by a natural disaster.** KM Olszowy, S Sinclair, AS Therrien, L Tarivonda, G Taleo, J Obed, AB Roome, CW Chan, KN Dancause
51. **Examining the relationship between school closures and mortality rates during the 1918 influenza pandemic in Missouri.** CM Orbann, M Andrade
52. **Chronic Wasting Disease and Human Health: Fifteen Year Follow-Up Study in an Upstate New York Population.** T Prabhakar, MV Camitan, D Dinowitz, A Safaie, ML Duris, A Roome, RM Garruto
53. **The 1918 influenza pandemic and COVID-19 in Missouri: assessing rural and urban differences in impact.** HK Ramirez, S Pirrone, CM Orbann, L Sattenspiel
54. **Diabetes self-management and glycemic control: identifying the disconnects between patient beliefs, adherence, and improved health outcomes.** AC Rivara, A Pomer, AI Wetzell, MS Reupena, T Naseri, S Viali, ST McGarvey, and NL Hawley
55. **Thirst perception is associated with ambient temperature and season of birth, but not hydration status: Data from two small-scale societies in extreme thermal environments.** AY Rosinger, HJ Bethancourt, ZS Swanson, K Lopez, WL Kenney, R Nzunza, E Ndiema, D Braun, H Pontzer
56. **The effect of stress axis activity and sleep patterns on metabolic energy in a group of Mayan adolescent girls – A preliminary, longitudinal analysis.** A Rowlands, KG Salvante, L McQuarrie, RM Altman, L McKinnon, DR Samson, PA Nepomnaschy
57. **Sleeping like a baby? Investigating the sleep and well-being of breastfeeding and formula feeding mothers in the early postpartum period.** Rudzik AEF
58. **Social support, perceived stress, resilience, and cortisol response when acclimating to novel and challenging environments.** MS Sarma, CJ Ocobock, S Rochelle, S Martin, LT Gettler
59. **Signaling sickness: how sickness behavior and psychosocial factors shape communication style.** EC Shattuck, JK Perrotte, CL Daniels, X Xu, TS Sunil
60. **Sickle Cell Disease in the State of Pará: Genetic Ancestrality and Biosocial Factors Associated with Clinical Manifestations in the Amazon.** A Kelly, L S da Silva, Hilton P Silva

61. **Hygiene practice impact on microbiome acquisition in highland Peru.** C Super, KR Amato, I Asa, MK Hoke
62. **Breastfeeding during breakout: Findings from the COVID-19 and Reproductive Effects (CARE) study.** CA Sweetman, TE Gildner, ZM Thayer
63. **COVID-19 perceptions and behaviors in NMSU students: Is there a gendered response?** H Taylor, KM Olszowy, MA Scott
64. **Fear of childbirth and birth outcomes during the COVID-19 pandemic among a sample of pregnant women in the US.** ZM Thayer, G Uwizeye, GC Alston, AC Lu, RL Milner, TE Gildner
65. **The impact of market integration on school-age children's gut microbiota and metabolism: links to diet, pathogen exposure, and linear growth among the Amazonian Shuar.** SS Urlacher, A Sharma, JA Gilbert, H Pontzer, JJ Snodgrass, TE Gildner, FC Madimenos, MA Liebert, LS Sugiyama, LR Dugas
66. **Birthing Practices and Child Survivorship in rural Peru.** A Veile, RC Cabello, VR Bravo, K McGuire
67. **Sociopolitical stressors and maternal mental health in the first trimester among a pregnant Latina population.** KS Wiley, KJ Chua, DA Knorr, MM Fox
68. **Socio-demographic determinants of child malnutrition in Haiti: a constant challenge.** CST Willock, MI Varela-Silva
69. **Risk of Lyme disease in residential neighborhoods in a newly endemic region of upstate New York.** ML Duris, KL DeRosa, ME Gauck, AR Bachyrycz, JD Gaughan, RM Garruto
70. **A biocultural approach to predictors of hair cortisol concentration among immigrant women in rural New York.** EA Holdsworth
71. **Nutritional status, dietary diversity and motor development in Maya and non-Maya children and adolescents.** J Kasovic¹, A Siniarska², N Wolanski³, F Dickinson⁴, MI Varela-Silva
72. **Displacement, work, and long-term health in communities on the Thailand-Burma border.** AN Suk.

3:30 PM -5:00 PM

STUDENT RECEPTION

Wednesday, March 31, 2021

- 11:00 AM- 1:15 PM **PODIUM SESSION A: Biocultural Approaches to Human Health**
Chair, Sharon Williams
- 11:00 AM-11:15 AM **Mitochondrial Haplogroup Involvement in Cervical Precancer Development.**
VK Friedrich, TG Schurr
- 11:15 AM-11:30 PM **Sex and age differences in the association between quarantine and sleep quality during COVID-19 pandemic in Brazil.**
KL Knutson, T Taporoski, F Bejamini, F Ruiz, S Ahmed, M von Schantz, A da Costa Pereira, KL Knutson
- 11:30AM-11:45 PM **Preliminary exploration of possible links between chronic inflammation and reproductive maturation in adolescent girls.**
AP Prescivalli, KG Salvante, RM Altman, SA Venners, A Rowlands, EC Juergensen, PA Nepomnaschy
- 12:00 PM-12:15 PM **Paternal care and growth rates in Shodagor children.**
KE Starkweather, MH Keith, S P Prall, N Alam, and ME Thompson
- 12:15 PM-12:30 PM **Biocultural determinants of post-1918 influenza pandemic tuberculosis mortality in Newfoundland.**
TP van Doren, L Sattenspiel
- 12:30 PM-1:15 PM **COFFEE BREAK**
- 1:30 PM-3:00 PM **PODIUM SESSION B: Contexts of Human Biology**
Chair, Asher Rosinger
- 1:30 PM-1:45 PM **Effects of sanitation, health and nutrition interventions on the nutritional status of 0- 36 months children, in rural Jigawa, Nigeria.**
S Ako, E Rousham, MI Varela-Silva
- 1:45 PM-2:00 PM **Workday and non-workday salivary cortisol circadian parameters differ by family living and ethnicity among healthy premenopausal women.**

LC Abernathy, GD James, DH Bovbjerg

- 2:00 PM-2:15 PM **Evaluating the impact of urbanization on child growth in an indigenous Bolivian high-altitude population.**
ME Burris, EM Chester, and VJ Vitzthum
- 2:15 PM-2:30 PM **Chromosome microsatellite analysis of Bougainville, New Ireland, and New Britain Austronesian and non-Austronesian speakers.**
KL DeRosa, DA Merriwether
- 2:30 PM-2:45 PM **Community food environments, enrollment in WIC, and household availability of fresh fruits and vegetables among African-American mother-infant pairs in North Carolina.**
KM Nicholas, AL Thompson, H Wasser, ME Bentley
- 2:45 PM-3:00 PM **Maternal perception of insufficient breastmilk supply: predictors and potential pathway.**
AK Nulty , AL Thompsonbetyp, HM Wasser, ME Bentley
- 3:30 PM-5:00 PM **COMMUNITY BUILDIGN AND NETWORKING**

Thursday, April 1, 2021

- 11:00 AM-12:30 PM **PODIUM SESSION C: Human Biology and Structural Inequalities**
Chair, Zaneta Thayer
- 11:00 AM-11:15 AM **Pathways linking maternal mental health and child health in a dual burden context.**
AL Thompson, JR Jahnke, E Teran, ME Bentley
- 11:15 AM-11:30 AM **Food Insecurity is Associated with Depression and Diabetes among Sexual Minority Adults: A preliminary analysis of syndemic effects.**
JK Gibb, J Charles, K Mikelsteins, L McKinnon, S Williams, & L McKerracher
- 11:30 AM-11:45 AM **Iron deficiency, depressive symptoms, and embodiment: a hidden racial disparity in the United States.**

EM Miller and A Monkhouse

- 11:45 AM-12:00 PM **Structural Racism and the Impacts of the Covid-19 Syndemic among Quilombola Populations of Brazil.**
HP Silva, AKLS da Silva, L.A. Filgueiras, R.B. Tavares
- 12:00 PM-12:15 PM **Skeletal growth status in a physically abused juvenile: Growth under atypical early life adversity.**
MM Bleuze, SM Wheeler, LJ Williams
- 12:30 PM-1:15 PM **COFFEE BREAK**
- 1:15 PM-2:45 PM **PODIUM D: ENVIRONMENT AND HUMAN BIOLOGY**
Chair, Dan Eisenberg
- 1:30 PM-1:45 PM **Development of the infant gut microbiome and temperament across the first year of life.**
M Fox, SM Lee, KS Wiley, V Lagishetty, C Sandman, JP Jacobs, LM Glynn
- 1:45 PM-2:00 PM **Prior childhood infections and 1918 influenza pandemic: A syndemic potential.**
L Tripp, LA Sawchuk
- 2:00 PM-2:15 PM **Childhood environments influence epigenetic ageing and stability in Bangladeshi women.**
R Stöger, G Leeman, M Choi, RD Emes, K Begum, P Melamed, GR Bentley
- 2:15 PM-2:30 PM **Air pollution and exposure profiles among women in eastern Zambia: sources and mediators.**
DT Dillon; JH Bisesi Jr.
- 2:30 PM-2:45 PM **Intestinal microbiota and iron supplementation efficacy in Peruvian pre-school aged children.**
A Dorsey, MA Azcarate-Peril, AL Thompson
- 3:30 PM-5:00 PM **AWARDS CEREMONY/RECEPTION**

Friday, April 2, 2021

- 11:00 AM-11:15 PM **PLACE BASED PODIUM SESSION: Mexico Session**

Chair, Alejandra Nunez-de La Mora

- 11:00 AM-11:15 AM **Population dynamics in Mexico through history.**
A. J. Aguirre-Samudio and B. Z. González-Sobrino,
- 11:15 AM-11:30 AM **Communication challenges and sociocultural experiences in bilingual context: health outcomes' (mis) perceptions in a rural Maya community in Mexico.**
MI Varela-Silva, MT Castillo-Burguete, H Azcorra, S Little
- 11:30 AM-11:45 AM **Effect of the Covid-19 quarantine on first-time, postpartum mothers in Coatepec, Veracruz, Mexico.** EJ Wolfe-Sherrie, AG Perroni-Marañon, A Núñez-de la Mora, BA Piperata
- 11:45 AM-12:00 PM **Seasonal changes in body composition in children from Maya agriculturalists in Central Yucatan.**
FD Gurri, W Ruiz-García
- 12:00 PM-12:15 PM **Cardiometabolic health among Purepecha in Michoacán, Mexico.** I Cruz, AL Thompson, L Adair
- 12:30PM-1:00PM. **COFFEE BREAK**
- 1:00 PM-2:30 PM **PLACE BASED HUMANBIOLOGY POSTER SESSION**
Chair, Alejandra Nunez-de La Mora

1. **Spatial distribution of causes of death in children under five years of age. The case of Oaxaca city 1800-1840.** MA Camacho
2. **Asociación between maternal and infant characteristics, and developmental dysplasia of the hip in newborns from Yucatán.** A Álvarez-Baeza, NI Méndez-Domínguez, RA Alejos-Gómez, F Pacheco-Medina
3. **Obesity and comorbidities among hospitalized patients who died due to COVID-19 in México.** NM Domínguez1, KDS Zaldivar, AR Pérez, MA Morales, OC Koh, AÁBG Carrillo
4. **Nutrition and infection: a key to interpreting the living conditions in the heterarchical society of the Maya of Tulum, Mexico.** G Uccheddu, A Ortega-Muñoz
5. **Cause of death disparities among children and juvenile Mayas and Afro-descendants of Corozal, Belize, 1894-1934: micro-evolutional and socioeconomic explains.** A Ortega Muñoz

6. **Acoustic interpersonal coordination during conversations.** A Farrera, GR Fernández
7. **Cephalopelvic disproportion as primary diagnosis for cesarean section: Role of neonatal birthweight in relation to maternal height at a Hospital in Merida, Mexico.** Fajardo Ruiz, NM Dominguez, GGV Castillo, HAL Molina, MJI Diaz, LS Fajardo-Ruiz, H Azcorra
8. **Has all-cause mortality in Mexico increased in times of covid-19 pandemic?** FE Herrero-Torre; E Rivero-Otamendi; N Mendez-Dominguez
9. **Vulnerability of Mayan adolescents to cardiocascularrisk and its posible health impacts.** JO Perez Izquierdo, MLÁ Escalante, RMC Bojórquez, IA González, KEC Netzahual,MBZ Hoyos
10. **Body mass index, fat percentage and the relationship with body dissatisfaction in dance students from Mérida, Yucatán.** ML Avila-Escalante, JO Pérez-Izquierdo, IIA González, RMC Bojórquez, V Rosales, DG Carrillo
11. **Is there an adolescent phase shift in sleeping patterns in non-WEIRD societies?** A Silva-Caballero, HL Ball, KL Kramer, RD Greaves, GR Bentley
12. **Maternal social capital and maternal and child health: Do grandmothers help?** AVázquez-Vázquez, MS Fewtrell, H Chan-García, C Batún-Marrufo, S Eaton, JCK Wells, F Dickinson

The feeling-thinking body (El Cuerpo sentipensante) as a paradigm in Anthropology. JR Velázquez
13. **Differences in Alzheimer's disease diagnosis seeking between the United States and Mexico.** EE Griffith
14. **Preliminary report of the importance of physical activity and its relationship to physical activity and the developMent of Type II diabetes condition in a group in Mexico City.** R Muñíz

Variation in body proportions and body composition in a group of Mexican individuals with achondroplasia. F Muñoz-Reyes, ME Peña-Reyes, F Loaeza
15. **Gut Microbiome in children from indigenous and urban communities in Mexico: Different subsistence models different microbiomes.** SM Correa, A Quinto, DC García, LI Falcón, O Gaona, J Nieto and IG Santoyo
16. **Infant skin bacterial communities vary by body site and household environments in Mexico and the U.S.A.** MB Manus, S Kuthyar, AG Perroni-Marañón, A Núñez-de la Mora, KR Amato

17. **Stature, body mass index and blood pressure in Mexican adults from communities of high socioeconomic vulnerability.** H Azcorra
18. **Factors associated to selection and consumption of food during pregnancy.** D Romero, F Dickinson, JL Batún, MT Castillo-Burguete, AL Hoogesteijn, H Azcorra
19. **Is there a differential impact of COVID-19 infection by age group among children under five years of age?** González-Alvarez C

3:30 PM-5:00 PM

BUSINESS MEETING (Closing Session)
Catherine Panter-Brick