

41st Annual Meeting

HUMAN BIOLOGY ASSOCIATION

**Program
of the
41st Annual Meeting
to be held in
Atlanta, GA
Marriott Marquis Hotel
April 13–14, 2016**

PROGRAM COMMITTEE:

Amanda Thompson, Chair

Lee Gettler

Elizabeth Miller

Crystal Patil

L. Christie Rockwell

LOCAL ARRANGEMENTS:

Susan Tanner

CURRENT OFFICERS AND MEMBERS OF STANDING COMMITTEES

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PRESIDENT ELECT	Carol M. Worthman (2015–2016)
TREASURER	Virginia J. Vitzthum (2012–2017)
SECRETARY	Andrew W. Froehle (2015–2019)
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GREETINGS FROM THE HBA PROGRAM COMMITTEE CHAIR!

The 41st Annual Meeting of the Human Biology Association will be held at the Marriott Marquis Hotel in Atlanta, Georgia, on Wednesday, April 13, and Thursday, April 14, 2016. Preregistration is less costly and is possible online at www.humbio.org through March 22, 2016. Non-members who register for the meeting are also welcome to attend.

The meetings open with a **Poster Session** on Wednesday morning from 8:00–11:00 a.m. This session provides attendees with the opportunity to discuss the presented research one-on-one with individual investigators. Over 70 posters will be on display during the session and will be available throughout the day for individual viewing. Two exciting **Breakout Sessions** follow the poster session: one teaching-focused session on incorporating new pedagogical techniques and a career-focused session on applying human biology inside and outside of the academy.

Wednesday afternoon features the **Plenary Session**, “Worldwide Variation in Human Growth – 40 Years Later,” organized by Robin Bernstein and Darna Dufour. This session highlights the history of and current innovations in the human biology study of growth and development. This year’s **Raymond Pearl Memorial Speaker** is **Dr. Reynaldo Martorell**. He will present “**Improved Nutrition in the First 1000 Days and Adult Human Capital and Health**” at 5 p.m.

Dr. Martorell is the Robert W. Woodruff Professor of International Nutrition at the Rollins School of Public Health, Emory University. He is recognized internationally for his groundbreaking longitudinal studies on maternal and child nutrition and has provided technical assistance on nutrition and nutrition policy in over 20 countries. His talk will discuss the long-term impacts of nutritional supplementation on educational achievement, work capacity, and adult health. The day concludes with our members’ **Dinner Reception** from 6:30–9:30 p.m. Please plan to join the festivities!

The scientific program on Thursday, April 14, 2016, consists of 24 podium presentations organized into four sessions: **Evolutionary and Biocultural Perspectives on Pregnancy and Infant Feeding; Growth and Reproduction in Transitioning Environments; Immune Function, Stress, and Health Across the Lifespan;** and **Human Variation in the Field and in the Classroom.**

The **Annual Awards Luncheon** will be held following the morning sessions from 12:00–1:15 p.m. The recipients of the Edward E. Hunt Jr., Phyllis Evelyth, and Spielvogel awards for outstanding graduate and undergraduate student presentations will be announced and the Executive Committee will present the Michael A. Little Early Career Award and the Franz Boas Distinguished Achievement Award. Tickets are available for advance purchase (and it does sell out!), so please buy your tickets early and join your colleagues to celebrate this year’s awardees. The **HBA Annual Business Meeting** will follow the final podium session and your participation is also encouraged for this event. Thursday’s activities will end with the **Student Reception** from 7:00–9:30 p.m., which is open to all registered student members and shouldn’t be missed!

Friday morning will feature the jointly sponsored AAPA/HBA Poster Symposium, “**Biocultural perspectives on family health within and across generations,**” organized by Melanie Martin.

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

On behalf of the 2016 HBA Program Committee, welcome to the meetings, enjoy your time in Atlanta, and thank you for your participation in this exciting group of presentations and events!

Amanda Thompson
HBA Program Committee Chair

**41ST ANNUAL MEETING
HUMAN BIOLOGY ASSOCIATION
PROGRAM SUMMARY
Atlanta, GA**

TUESDAY, APRIL 12, 2016

6:00 p.m.–10:00 p.m. **EXECUTIVE COMMITTEE MEETING**
Room: A601

WEDNESDAY, APRIL 13, 2016

7:30 a.m.–9:00 a.m. **AJHB EDITORIAL BOARD MEETING AND BREAKFAST**
Room: A702

8:00 a.m.–5:00 p.m. **REGISTRATION**
Registration Desk 4 Atrium Level

8:00 a.m.–11:00 a.m. **POSTER SESSION**
(Setup at 7:00 a.m.) Chair: Amanda Thompson
Atrium Ballroom A/B

11:30 a.m.–12:45 p.m. **LUNCH BREAK**

11:30 a.m.–12:30 p.m. **BREAKOUT SESSION 1**
Pedagogy in Human Biology
Susan Johnson, Organizer
Room: L504

11:30 a.m.–12:30 p.m. **BREAKOUT SESSION 2**
**Career Pathways Panel Discussion: Applying Human Biology
in Academia and Beyond**
Angela Garcia and Alysa Pomer, Organizers
Room: L505

1:00 p.m.–1:15 p.m. **OPENING WELCOME**
Andrea Wiley, President of the Human Biology Association

INTRODUCTION TO PLENARY SESSION
Robin Bernstein and Darna Dufour, Organizers
Room: A703/704

1:15 p.m.–4:45 p.m. **PLENARY SESSION**
Worldwide Variation in Human Growth – 40 Years Later
Organizers: Robin Bernstein and Darna Dufour
Room: A703/704

5:00 p.m.–6:00 p.m. **RAYMOND PEARL MEMORIAL LECTURE**
**Improved nutrition in the first 1000 days and adult
human capital and health**
Reynaldo Martorell
Rollins School of Public Health, Emory University
Room: A703/704

6:30 p.m.–9:30 p.m. **HBA DINNER RECEPTION AND CASH BAR**
Imperial Ballroom Salon A

THURSDAY, APRIL 14, 2016

- 8:30 a.m.–10:00 a.m. **PODIUM SESSION A**
Evolutionary and Biocultural Perspectives on Pregnancy and Infant Feeding
Chair: Crystal Patil
Room: A704
- 10:00 a.m.–10:15 a.m. **COFFEE BREAK**
- 10:15 a.m.–11:45 a.m. **PODIUM SESSION B**
Growth and Reproduction in Transitioning Environments
Chair: Lee Gettler
Room: A704
- 12:00 p.m.–1:15 p.m. **HBA ANNUAL AWARDS LUNCHEON**
Room: A601
- 1:30 p.m.–3:00 p.m. **PODIUM SESSION C**
Immune Function, Stress, and Health Across the Lifespan
Chair: Elizabeth Miller
Room: A704
- 3:00 p.m.–3:15 p.m. **COFFEE BREAK**
- 3:15 p.m.–4:30 p.m. **PODIUM SESSION D**
Human Variation in the Field and in the Classroom
Chair: L. Christie Rockwell
Room: A704
- 5:00 p.m.–6:30 p.m. **HBA ANNUAL BUSINESS MEETING**
Room: A704
- 7:00 p.m.–9:30 p.m. **HBA STUDENT RECEPTION**
Room: A705

FRIDAY, APRIL 15, 2016

- 8:00 a.m.–12:00 p.m. **JOINT AAPA/HBA SYMPOSIUM**
Biocultural perspectives on family health within and across generations. Invited Poster Symposium.
Chair: Melanie Martin
Atrium Ballroom C

**41ST Annual Meeting
HUMAN BIOLOGY ASSOCIATION SCIENTIFIC PROGRAM**

WEDNESDAY, APRIL 13, 2016

8:00 a.m.–11:00 a.m.	POSTER PRESENTATIONS Chair: Amanda Thompson <i>Atrium Ballroom A/B</i>
7:00 a.m.–8:00 a.m.	Poster setup
8:00 a.m.–9:30 a.m.	Authors of odd-numbered posters present for discussion
9:15 a.m.–9:45 a.m.	COFFEE BREAK
9:30 a.m.–11:00 a.m.	Authors of even-numbered posters present for discussion
11:00 a.m.–4:30 p.m.	Posters available for independent viewing
4:30 p.m.–5:00 p.m.	Poster takedown

Poster Presentations

- 1. What a drop can really do: methodological challenges of integrating dried blood spot samples into human biology research.** GN Eick, SS Urlacher, TE Fording, PR Kowal, LS Sugiyama, JJ Snodgrass
- 2. Transferrin receptor protein values in dried blood spots stored for nine years demonstrate strong correlation with transferrin receptor in matched sera and with hemoglobin values assessed at the time of blood collection.** J Stone, M Fujita
- 3. Cortisone to cortisol ratio as an alternative method for assessing HPA-axis function in pregnancy.** ZM Thayer
- 4. Living on the edge: investigating the relationship between nutrition, gender, and changing socioeconomics in South West Cameroon.** KR Culley and CA Jost Robinson
- 5. Food insecurity, maternal mental health, and child morbidity in Mwanza, Tanzania.** AF Dorsey, JA Decaro, M Manyama, W Wilson
- 6. Nutritional transition in indigenous communities of the Atacama Desert, northern Chile: a biocultural approach to changes in Atacamenian diet and nutrition.** T Pardo, M Hubbe, GH Shepard JR, L Conde
- 7. The nutritional status of children from two riverine populations of the Amazon, Brazil.** LA Filgueiras, HP Silva
- 8. Impact of market integration on under- and overnutrition in the Ecuadorean Amazon.** MV Sorensen, F Lu, K Houck
- 9. Cytomegalovirus antibody titers among young children in Mwanza, Tanzania: interpretation & relationship to household conditions.** JA Decaro, AF Dorsey, M Manyama, W Wilson
- 10. Childhood intestinal health, immune function and the gut microbiome in Galapagos, Ecuador.** KM Houck, AL Thompson, MV Sorensen
- 11. Predictors of skin infections in rural Gambian infants.** J Washabaugh, S Moore, M Darboe, R Bernstein
- 12. Predictors of microcytic and macrocytic anemia in the Bolivian Amazon.** A Anderson, B Trumble, H Kaplan, M Gurven, AD Blackwell
- 13. The effect of age-related reductions in school attendance on the size and timing of infectious disease epidemics in a small, traditional community.** JL Dimka, L Sattenspiel

14. **Childhood epidemics and the changing demographic landscape of the Åland archipelago.** EL Miller
15. **Household pets: sentinel species and potential for increased risk of human cases of Lyme disease.** E Ragusa, K Schaal, J Huey, B Ho, A Roome, R Spathis, RM Garruto
16. **Risk of Lyme disease in the Upper Susquehanna River Basin.** A Roome, A Ferrier, YJ Cen, K Schaal, F Tiu, S Vogel, S Nelson, D Goldberg, K Patel, M Armstrong, H Lin, M Susco, B Kopping, C Hashem, Z Tayyem, J Randall, S John, Z Shah, R Spathis, RM Garruto.
17. **Gender inequality and vitamin D interaction in country-level sex disparities in multiple sclerosis prevalence.** J Perez
18. **Study on global AGEing and adult health (SAGE): Cross-cultural associations between cognitive function and diminished physical performance among older adults.** TE Gildner, MA Liebert, P Kowal, JJ Snodgrass
19. **Study on global AGEing and adult health (SAGE): The social stratification of frailty among older adults in India.** JM Schrock, MA Liebert, P Kowal, JJ Snodgrass
20. **Impact of obesity on happiness and quality of life among older adults in South Africa and Ghana.** SC Mort, GH Ice, ZT Haile
21. **Survey of migration and health among the Purepecha.** I Godinez
22. **Objective measures and perception of hot flashes among women in the city of Campeche and in the rural municipalities of Hopelchén and Calakmul.** LL Sievert, L Huicochea Gomez, D Cahuich Campos, DE Brown
23. **Childhood adversity and adult stress response are independent correlates of obesity in a sample of Appalachian women.** AC Farbman, GH Ice
24. **Effects of post-migration acculturation of British Bangladeshis on levels of salivary cortisol: does local population density and generation matter?** GD Cooper, P Nahar, N Akhter, K Begum, A Kasim, GR Bentley
25. **A matter of perception: Subjective and objective socioeconomic status and diurnal cortisol on the island of Utila, Honduras.** A Garcia, AD Blackwell
26. **Environmental variability of blood pressure and heart rate is similar between women with and without a parental history of hypertension in women.** GD James
27. **Preliminary Analysis of Sociocultural Predictors of Self-Reported Health Status of Agricultural Workers in the North-Eastern United States.** KR Nelder, MV Gallo
28. **Use of insecticides and herbicides linked to higher BMI in Samoan mothers.** JJ Park, NC Deziel, CC Choy, EA Frame, T Naseri, MS Reupena, RL Duckham, NL Hawley
29. **Exposure to environmental toxicants as a predictor of infant neurodevelopment.** NH Graham, LM Schell, PJ Parsons, PC Kruger
30. **Associations between Serum Concentrations of Perfluorinated Chemicals (PFCs) and Thyroid Hormones in White Males from the National Health and Nutrition Examination Survey (NHANES) III (2011-2012).** CA Ehret, MM Bleuze, LM Schell
31. **Associations between time of sleep onset, sleep duration, and leukocyte counts.** N Keivanfar, A Garcia, S Bay, and AD Blackwell
32. **Impact of television on adolescent sleep: a randomized experiment in Vietnam.** CM Worthman, A Sadeh, RA Dahl, R Jayakody
33. **Maternal height, children's birth weight and adiposity in a sample of 6 to 10 years of age.** H Azcorra, F Dickinson and S Datta Banik
34. **Early environment and C-reactive protein: a cross-sectional study on British Bangladeshi in the UK.** K Begum, G Cooper, P Nahar, N Akhter, A Kasim and GR Bentley
35. **December birth is associated with higher mortality among older people in Japan: Findings from the JAGES cohort.** Y Inoue, A Stickley, A Yazawa, T Fujiwara, K Kondo, N Kondo.

36. **Does chronic maternal psychosocial stress among American Samoan women affect neonate body size?** M Howells, DL Dufour, RL Bender, M Sesparasara, A Lloyd
37. **Maternal glucose status (HbA_{1c}) during pregnancy and offspring birth outcomes in Cebu, Philippines.** RL Fried, NR Lee, TW Mcdade, CW Kuzawa
38. **Changing Birth Dynamics in Yucatán: Do Cesarean Births Undermine Child Health?** A Veile, KL Kramer
39. **Social and economic change and rising rate of caesarean-section deliveries in Ecuador.** JR Jahnke, KM Houck, ME Bentley, AL Thompson
40. **Examining maternal marital status in American Samoa: implications for neonate size and access to prenatal care.** CR Wagi, ME Howells, RL Bender, M Sesparasara
41. **Mode of cultural learning, not ecology, influences duration of exclusive breastfeeding in a sample of indigenous Maya women from Guatemala.** LJ Mckerracher, M Collard, RM Altman, D Sellen, P Nepomnaschy
42. **Are changes in milk fat concentration over a single feed related to infant growth?** EM Miller
43. **Infant sleep duration and melatonin levels in exclusively breastfed and exclusively formula fed infants.** AEF Rudzik, L Robinson, HL Ball
44. **Breastfeeding and early feeding practices in the first 8 months of life for infants from north-central Tanzania.** CL Patil, B Hanselman, R Ambikapathi, K Yeh, C Amour, E Mduma, J Gratz, E Svensen, LE Caulfield, The MAL-ED Network Investigators
45. **Mixed evidence of adverse nutritional outcomes associated with early complementary feeding among the Tsimane.** M Martin, M Gurven
46. **The influence of caregiver feeding styles on infant dietary outcomes.** KJ Barrett, AL Thompson, HM Wasser, ME Bentley
47. **Co-sleeping behavioral interactions and responsiveness; a focus on fathers.** G Rogoff, L Gettler, J Mckenna
48. **Intersections of psychosocial stress, testosterone, and caregiving in US mothers and fathers.** M Tumminello. J Braungart-Rieker. EM Cummings. J Burke. LT Gettler
49. **Translating IBCLC skills into field research on human lactation.** AEL Palmquist
50. **Preece Baines Model 1 to estimate height and knee height growth in boys and girls from Merida, Mexico.** S Datta Banik, SM Salehabadi, F Dickinson
51. **Standardization of foot growth curves for Japanese children aged 1-6 years.** K Ueda, S Kokudo
52. **Comparison and integration of growth standards of four Asian countries: Thailand, Laos, Myanmar and Nepal.** S Kokudo, S Ohsawa, A Shimoda, T Asakura, S Tomokawa, T Sagawa, T Nakano, B Kannhavong, N Keosada, K Toomsam, T Naing, B Devkota
53. **What aspects of the phenotype manifest “spurts” during adolescence?** CR Hodges-Simeon, K Hanson Sobraske, M Gurven, SJC Gaulin
54. **Developmental plasticity in historic Southwestern American Indians: Influence of mobility, nutrition, and sociopolitical stress on stature and menarche.** SM Tuller
55. **Exploring the relationship between physical activity, sedentary behaviors, and BMI in Samoan children aged 2-5.** EA Frame, CC Choy, JJ Park, T Naseri, MS Reupena, RL Duckham, NC Deziel, A Baylin, NL Hawley
56. **Differences between rural- and urban-dwelling Guyanese girls’ activity patterns, energy expenditure, and well-being.** EI Singh, VJ Vitzthum
57. **Changes in dietary and physical activity patterns and body composition during adolescence: The Birth to Twenty Cohort.** K Riggle

58. **The association of diet and community food resources with BMI and percent body fat in the NHLBI Family Heart Study.** F Gomez, M Oka, S Gehlert, I Borecki
59. **Physical activity in chronic kidney disease: a group study of hemodialysis patients in Guerrero, Mexico.** A. Arroyo-Ramirez, MA. Peña-Reyes
60. **Body fat protects against muscle mass loss in physically active humans at high altitude temperate and cold environments.** C Ocobock
61. **Metabolic limits and adaptation in humans: Daily energy expenditure in *Race Across the USA* athletes.** C Thurber, B Carlson, C Ocobock, L Dugas, H Pontzer
62. **Stress and satisfaction measures during final exams in freshmen as a predictor of academic performance: sex differences.** A Ching, TK. Halliwell, S Gandhi, L Isozaki, J Mahoe, DT Koomoa, DE Brown
63. **Discrimination, cultural consonance, and cell-mediated immunity among college students.** EB Quinn, JA Decaro
64. **The impact of compassion training on medical student well-being and immune function.** JS Mascaró, S Kelley, A Darcher, LT Negi, C Worthman, A Miller, C Raison
65. **Psychosocial distress following a natural disaster in a lower-middle income country: "Healthy mothers, healthy communities" study in Vanuatu.** A Pomer, F Taleo, H Sizemore, A Tokon, G Taleo, L Tarivonda, KN Dancause
66. **Human variation, disease and Tibetan pharmacology: New pharmaceutical research schema and case studies highlighting Tibetan medical approaches to individualized patient physiology.** T Tidwell, J Nettles
67. **Environmental reliability, inter-temporal choice, and risky decision-making among Shuar children.** D Amir, Y Dunham, M Liebert, J Snodgrass, S Urlacher, F Madimenos, L Sugiyama, RG Bribiescas
68. **Multi-sensory campfire experiences influence lower electrodermal response.** E Duncan, A Boatwright, M Carr, A Daugherty, C Lynn
69. **Selective decreases in the hippocampus in Major Depressive Disorder: a Life History approach.** RL Tennyson, EV Harel, M Bar
70. **Modeling human brain evolution using neurodevelopmental disorders: the case for Williams syndrome.** KL Hanson, K Semendeferi
71. **Correlated genetic and linguistic distances among Trans-New Guinea language speakers of highland Papua New Guinea.** M Li, KL Derosa, S Schutta, H Mann, A Roome, W Guo, D Castellanos, S Bender, J Echard, K Casey, M Shamoony-Pour, H Dulin, R Spathis, RM Garruto, JK Lum
72. **The utility of a health risk assessment in a Midwest Medicaid population.** LE Soloway, LG Moore, A Herzig, PA Labrec
73. **Sickle cell disease in the Amazon and the challenges of combating racism.** AK Silva, HP Silva
74. **Growth of the Pectoral Girdle in a Sample of Juveniles from the Kellis 2 Cemetery, Dakhleh Oasis, Egypt.** MM Bleuze, SM Wheeler, LJ Williams, TL Dupras
75. **Lamellar invagination of the cranial canals: Three cases of ipsilaterally atretic basi-cranial foramina from post-medieval Holland.** GMA Carroll, A Waters-Rist, SA Inskip

WEDNESDAY, APRIL 13, 2016 (CONTINUED)

- 11:30 p.m.–12:45 p.m. **LUNCH BREAK**
- 11:30 p.m.–12:30 p.m. **BREAKOUT SESSIONS**
- BREAKOUT SESSION 1**
Pedagogy in Human Biology
Susan Johnson, Organizer
Room: L504
- BREAKOUT SESSION 2**
Career Pathways Panel Discussion: Applying Human Biology
in Academia and Beyond
Angela Garcia and Alysa Pomer, Organizers
Room: L505
- 1:00 p.m.–1:15 p.m. **OPENING WELCOME**
Andrea Wiley, President of the Human Biology Association
Room: A703/704
- INTRODUCTION TO PLENARY SESSION**
Robin Bernstein and Darna Dufour, Organizers
Room: A703/704
- 1:15 p.m.–4:45 p.m. **PLENARY SESSION**
Worldwide Variation in Human Growth – 40 Years Later
Organizers: Robin Bernstein and Darna Dufour
Room: A703/704

The first edition of Phyllis Eveleth and James Tanner's *Worldwide Variation in Human Growth* was published in 1976, bringing together information on growth and maturation across many different populations. This provided a new resource for human biologists, and also raised important questions concerning the construction and implementation of growth standards and the teasing apart of genetic and environmental contributions to growth patterns. A second edition of this work was released in 1991. In the 25 years since then, the study of human growth has itself grown by leaps and bounds. This Plenary Session will showcase research that highlights the ways in which human biologists currently approach investigations of human growth, building on the foundations laid by Eveleth and Tanner.

- 1:15 p.m. **In pursuit of a fair and equal society: Worldwide Variations in Human Growth 1964-1988**
Noel Cameron
- 1:45 p.m. **Secular trends, epigenetic assimilation, and community effects on growth**
Barry Bogin
- 2:15 p.m. **Population-level differences and secular shifts in skeletal maturation**
Dana Duren
- 2:45 p.m.–
3:00 p.m. **COFFEE BREAK**
- 3:00 p.m. **Worldwide variability in growth: incorporating developmental plasticity, body composition, and maternal effects**
Jonathan Wells
- 3:30 p.m. **Individual growth and mechanisms of variation**
Michelle Lampl

- 4:00 p.m. **Influence of health and disease on variation in growth and skeletal development**
Babette Zemel
- 4:30 p.m. **Closing remarks**
Robin Bernstein and Darna Dufour
- 5:00 p.m. **RAYMOND PEARL MEMORIAL LECTURE**
Improved nutrition in the first 1000 days and adult human capital and health
Reynaldo Martorell
Room: A703 / 704
- 6:30 p.m.–
9:30 p.m. **HBA DINNER RECEPTION**
Imperial Ballroom Salon A

THURSDAY, APRIL 14, 2016

- 8:30 a.m.–10:00 a.m. **PODIUM SESSION A: Evolutionary and Biocultural Perspectives on Pregnancy and Infant Feeding**
Chair: Crystal Patil
Room: A704
- 8:30 a.m. **Teenage pregnancy compromises maternal growth but not reproductive success among the Tsimane, Bolivian forager-farmers**
LS McAllister, A Blackwell, G Garcia, MD Gurven
- 8:45 a.m. **Cultural transmission of pregnancy dietary avoidances**
CD Placek, EH Hagen
- 9:00 a.m. **Feeding babies, feeding inequalities: A biocultural examination of changing economic activity, infant feeding, and early growth in Nuñoa, Peru**
MK Hoke
- 9:15 a.m. **Cultural domain analysis of breastfeeding, stress, and support among white, middle class families of North Carolina**
BG Chamberlain
- 9:30 a.m. **Maternal adiposity is not associated with several milk bioactives in high altitude living Tibetans**
EA Quinn, G Childs
- 9:45 a.m. **Great ape milk differs from human milk in nutritionally significant ways**
ML Power
- 10:00 a.m. **COFFEE BREAK**
- 10:15 a.m.–
11:45 a.m. **PODIUM SESSION B**
Growth and reproduction in transitioning environments
Chair: Lee Gettler
Room: A704
- 10:15 a.m. **Growth references for Amazonian populations**
AD Blackwell, SS Urlacher, B Beheim, C von Rueden, BC Trumble, J Stieglitz, H Kaplan, and M Gurven

- 10:30 a.m. **Secular change in childhood time allocation, energy expenditure, and growth among rapidly modernizing indigenous Maya**
SS Urlacher and KL Kramer
- 10:45 a.m. **Co-existence of anemia, overweight and obesity among 2-5 year old children in Samoa**
CC Choy, JJ Park, EA Frame, T Naseri, MS Reupena, NC Deziel, RL Duckham NL Hawley
- 11:00 a.m. **Impact of modernization on child growth and obesity risk in Vanuatu**
KN Dancause, A Pomer, KM Olszowy, C Sun, H Silverman, G Lee, CW Chan, L Tarivonda, A Kaneko, CA Weitz, JK Lum, RM Garruto
- 11:15 a.m. **Is reproductive hormone function compromised in obese Samoan men?**
RG Bribiescas, KS Wiley, A Sancilio, C Panter-Brick, T Naseri, NL Hawley, S McGarvey
- 11:30 a.m. **Variation in the androgen receptor modulates the relationship between testosterone and sexually dimorphic traits in adult males**
CP Ryan, A Georgiev, TW McDade, LT Gettler, DTA Eisenberg, MG Hayes, CW Kuzawa
- 12:00 p.m.–1:15 p.m. **HBA ANNUAL AWARDS LUNCHEON**
Room: A601
- 1:30 p.m.–3:00 p.m. **PODIUM SESSION C**
Immune Function, Stress, and Health across the Lifespan
Chair: Elizabeth Miller
Room: A704
- 1:30 p.m. **Early origins of inflammation: Does DNA methylation mediate the association between nutritional and microbial environments in infancy and the regulation of inflammation in young adulthood?**
TW McDade, C Ryan, R Fried, M Jones, M Kobor, C Kuzawa
- 1:45 p.m. **Complex interactions between iron nutrition and infectious disease among children in Kilimanjaro, Tanzania**
K Wander, B Shell-Duncan, Brindle E
- 2:00 p.m. **Soil-transmitted helminth infection and immune function: *Ascaris lumbricoides*, but not *Trichuris trichiura*, is associated with lower adult-levels of C-reactive protein among the Shuar of Ecuadorian Amazonia**
TJ Cepon-Robins, TE Gildner, MA Liebert, SS Urlacher, FC Madimenos, LS Sugiyama, JJ Snodgrass
- 2:15 p.m. **Stressful life events, the hypothalamic-pituitary-adrenal axis and cellular aging in women**
PA Nepomnaschy, CK Barha, KG Salvante, CW Hanna, SL Wilson, WP Robinson and RM Altman
- 2:30 p.m. **Can stress biomarkers demonstrate the effectiveness of a humanitarian intervention? An evaluation with Syrian refugee youth.**
A Sancilio, R Dajani, M Eggerman, S Van Uum, K Wiley, C Panter-Brick

- 2:45 p.m. **Co-residence, health and wellbeing among older adults in South Africa and Ghana.**
GH Ice, ZT Haile
- 3:00 p.m. **COFFEE BREAK**
- 3:15 p.m.–4:30 p.m. **PODIUM SESSION D**
Human Variation in the Field and the Classroom
Chair: L. Christie Turner
Room: A704
- 3:15 p.m. **Sexual activity and ovulation status moderate patterns of inflammation across the ovarian cycle in healthy women**
TK Lorenz, CM Worthman, J Thornburg, VJ Vitzthum
- 3:30 p.m. **Obesity and the risk of hot flashes in midlife Arab women living in Qatar.**
LM Gerber, LL Sievert, AE Giambrone, M Verjee
- 3:45 p.m. **Is maximal handgrip strength associated with biomarkers of cardiometabolic disease risk in Melanesian adults in Vanuatu?**
KM Olszowy, A Roome, K Bower, L Tarivonda, D Ngwele
- 4:00 p.m. **Timescales of adaptation: Variation in brown fat activity among populations in Yakutia (Sakha Republic) of northeastern Siberia.**
SB Levy and WR Leonard
- 4:15 p.m. **MtDNA analysis reveals restricted gene flow between highland and coastal populations of Papua New Guinea**
KL DeRosa, M Li, H Mann, S Schutta, A Roome, W Guo, D Castellanos, S Bender, J Echard, K Casey, M Shamoony-Pour, H Dulin, R Spathis, RM Garruto, JK Lum
- 4:30 p.m. **Inquiry-based curriculum improves student understanding about evolution in an introductory biological anthropology course.**
SL Johnston, M Knabb, J Auld, L Rieser-Danner

FRIDAY, APRIL 15, 2016

- 8:00 a.m.–12:00 p.m. **JOINT AAPA/HBA SYMPOSIUM**
Biocultural perspectives on family health within and across generations. Invited Poster Symposium.
Chair: Melanie Martin
Atrium Ballroom C