

**35th Annual Meeting**

**HUMAN BIOLOGY ASSOCIATION**

**Program  
of the  
35th Annual Meeting  
to be held in  
Albuquerque, New Mexico  
Hotel Albuquerque at Old Town  
April 14–15, 2010**

**PROGRAM COMMITTEE:**

**Virginia J. Vitzthum, Chair  
Jason DeCaro  
Kathryn A. Hicks  
Kathleen O'Connor  
Christie Rockwell**

**LOCAL ARRANGEMENTS:**

**Keith Hunley  
Martin Muller**

# CURRENT OFFICERS AND MEMBERS OF STANDING COMMITTEES

**PRESIDENT** Gary D. James (2007–2011)

**PRESIDENT ELECT** William R. Leonard (2009–2013)

**SECRETARY-TREASURER** Andrea S. Wiley (2008–2012)

**EXECUTIVE COMMITTEE**

**Membership:** Dennis O'Rourke (2006–2010)

**Program:** Virginia J. Vitzthum (2007–2011)

**Public Relations:** Thomas McDade (2008–2012)

**International:** Hilton da Silva (2009–2013)

**NOMINATIONS AND ELECTIONS COMMITTEE**

**Barbara Piperata, Chair** (2008–2010)

**Daniel Benyshek** (2008–2010)

**Susan Johnston** (2009–2011)

**Sharon Williams** (2009–2011)

**PUBLICATIONS COMMITTEE**

**Alexandra Brewis Slade, Chair** (2007–2011)

**Debra Crooks** (2009–2013)

**Timothy Gage** (2007–2011)

**Josh Snodgrass** (2009–2013)

**Peter T. Ellison** (Editor, *AJHB*; ex officio)

**AAAS REPRESENTATIVE** Michael Little (2008–2010)

## GREETINGS FROM HBA PROGRAM COMMITTEE CHAIR

The 35th Annual Meeting of the Human Biology Association will be held at the Hotel Albuquerque at Old Town (Albuquerque, New Mexico) on Wednesday and Thursday, April 14-15, 2010. Nonmembers are welcome to attend. Registration is less costly on-line ([www.humbio.org](http://www.humbio.org)) before March 15, but is also available at the meeting.

A detailed schedule of presentations and events, abstracts of the presentations, and an index of the authors' names and presentation slot follow this summary (also see [www.humbio.org](http://www.humbio.org)). Floor plans for the venue are at [www.handr.com/pdf/Sept-HotelAlbuquerque\\_FLY.pdf](http://www.handr.com/pdf/Sept-HotelAlbuquerque_FLY.pdf); all of the events are conveniently located on the same level. Wednesday morning's Poster Session will be in the Alvarado Ballroom (sections FGH, off the South Atrium), and the afternoon's Plenary Session will be in Alvarado Ballroom (sections AB, off the North Atrium). Both evening Receptions and Thursday's Podium Sessions and Business Meeting will be in the Weavers Room (off the north portal/Rosemary Garden). Thursday's Award Luncheon will be in the Potters Room (adjacent to the Weavers Room).

The opening Poster Session, to begin at 8:30 am on Wednesday morning, comprises 72 presentations of cutting-edge research representing the diversity of interests among human biologists including behavior, genetics, growth/development, health, nutrition, reproduction, and skeletal biology. The Poster Session affords a unique opportunity to discuss the presented research one-on-one with individual investigators. Authors of odd-numbered posters will be present for discussion of their work from 8:30 to 10:00 am; those of even-numbered posters will be present from 10:00 am through 11:30 am.

The Plenary Session, "Human Biology and the Brain" has been organized by Benjamin Campbell. Gary James, President of the HBA, will open the session at 1:00 pm on Wednesday. At 5:00 pm, the Pearl Memorial Speaker, John Allman, will discuss "The Von Economo Neurons." The day is topped with a Reception from 6:00 to 9:00 pm featuring an expansive buffet and a toast to the 35th Anniversary of HBA Annual Meetings. Come join the festivities!

Thursday's scientific program comprises 23 presentations organized into four Podium Sessions: "Applied Research: Growth, Nutrition" and "Women's and Children's Health" during the morning, and "Hormones, Behavior and Life History Trade-offs" and "Inflammation, Stress and Health" during the afternoon.

The Annual Awards Luncheon will begin at noon on Thursday. We urge you to purchase your luncheon tickets well in advance! The recipients of the Edward E. Hunt, Jr. Student prizes for outstanding research presentations will be announced, and the HBA Executive Committee will have the pleasure and honor of presenting The Franz Boas Distinguished Achievement Award to Dr. Lorna Grindlay Moore, Dean of the Graduate School of Arts and Sciences, Professor of Public Health Sciences, and Professor of Anthropology at Wake Forest University, in recognition of her exemplary contributions to human biology in science, scholarship, and professional service.

We encourage you to participate in the HBA Annual Business Meeting, which will follow on the heels of the final Podium Session in the same room on Thursday at 5:00 pm. Thursday evening's Student Reception is open to all students registered for the Annual Meeting. A buffet and open bar will facilitate round table discussions with invited senior scholars on topics selected by the Student Organizing Committee.

The HBA meeting overlaps with those of several sister organizations including the American Association of Physical Anthropologists (AAPA, April 14-17, Wednesday evening through Saturday). The AAPA/HBA Jointly Sponsored Symposium, "Pathogens and Evolution of Humans and Nonhuman Primates," has been organized by Jessica Brinkworth and Ekaterina Pechenkina, and is scheduled for Friday morning, beginning at 8:00 am in Alvarado Ballroom A. The AAPA program offers several other sessions of interest to human biologists. Please see [www.physanth.org](http://www.physanth.org) for the entire AAPA program.

The HBA Scientific Program, Local Arrangements, and Executive Committees cordially invite you to Albuquerque for our thirty-fifth Annual Meeting. The stimulating scientific program and welcoming venue will be all the better for your participation.

*Virginia J. Vitzthum*  
*HBA Program Committee Chair*

**35TH ANNUAL MEETING  
HUMAN BIOLOGY ASSOCIATION  
PROGRAM SUMMARY  
Albuquerque, New Mexico**

**TUESDAY, APRIL 13, 2010**

- 5:00–8:00 p.m.      **Registration**  
*North Atrium*
- 6:00–10:00 p.m.    **Executive Committee Meeting**  
*Weavers Room*

**WEDNESDAY, APRIL 14, 2010**

- 7:30 a.m.–9:00 a.m.    **AJHB EDITORIAL BOARD MEETING AND BREAKFAST**  
*Weavers Room*
- 8:00 a.m.–5:00 p.m.    **Registration**  
*North Atrium*
- 8:00 a.m.–12:00 p.m.   **POSTER SESSION**  
Chair: Virginia J. Vitzthum  
*Alvarado Ballroom FGH*
- 12:00 p.m.–1:00 p.m.   **Lunch Break**
- 1:00 p.m.–1:15 p.m.    **OPENING WELCOME**  
Gary James, President of the Human Biology Association  
*Alvarado Ballroom AB*
- INTRODUCTION TO PLENARY SESSION**  
Benjamin Campbell, Organizer and Chair  
*Alvarado Ballroom AB*
- 1:15–4:45 p.m.         **PLENARY SESSION**  
**Human Biology and the Brain**  
*Alvarado Ballroom AB*
- 5:00–6:00 p.m.         **PEARL MEMORIAL LECTURE**  
**The Von Economo Neurons**  
John Allman  
*Alvarado Ballroom AB*
- 6:00–9:00 p.m.         **HBA RECEPTION AND CASH BAR**  
*Weavers Room*

**THURSDAY, APRIL 15, 2010**

- 8:00 a.m.–12:00 p.m.    **REGISTRATION**  
*Corridor outside Weavers Room*
- 8:30–10:00 a.m.        **PODIUM SESSION A**  
**Applied Research: Growth, Nutrition**  
Chair: Kathryn A. Hicks  
*Weavers Room*
- 10:00–10:15 a.m.      **Coffee Break**

- 10:15–11:45 a.m. **PODIUM SESSION B**  
**Women's and Children's Health**  
Chair: Kathryn A. Hicks  
*Weavers Room*
- 12:00–1:30 p.m. **HBA ANNUAL AWARDS LUNCHEON**  
*Potters Room*
- 2:00–3:30 p.m. **PODIUM SESSION C**  
**Hormones, Behavior and Life History Trade-offs**  
Chair: Jason DeCaro  
*Weavers Room*
- 3:30–3:45 p.m. **Coffee Break**
- 3:45–5:00 p.m. **PODIUM SESSION D**  
**Inflammation, Stress and Health**  
Chair: Christie Rockwell  
*Weavers Room*
- 5:00–6:30 p.m. **HBA ANNUAL BUSINESS MEETING**  
*Weavers Room*
- 7:00–9:30 p.m. **HBA STUDENT RECEPTION**  
*Weavers Room*

**FRIDAY, APRIL 16, 2010**

- 8:00 a.m.–12:00 p.m. **JOINT AAPA/HBA SYMPOSIUM**  
**Pathogens and Evolution of Humans and Nonhuman Primates**  
Organizers: Jessica F. Brinkworth and Ekaterina Pechenkina  
*Alvarado Ballroom A*

**35<sup>TH</sup> ANNUAL MEETING  
HUMAN BIOLOGY ASSOCIATION  
SCIENTIFIC PROGRAM**

**WEDNESDAY, APRIL 14, 2010**

8:00 a.m.–12:00 p.m.      **POSTER PRESENTATIONS**  
Chair: Virginia J. Vitzthum  
*Alvarado Ballroom FGH*

8:00–8:30 a.m.: Poster setup

8:30–10:00 a.m.: Authors of odd-numbered posters present for discussion

9:45–10:15 a.m.: Coffee Break

10:00–11:30 a.m.: Authors of even-numbered posters present for discussion

11:30 a.m.–12:00 p.m.: Poster removal

1. Marriage medicine: probing the influence of marital status on male cardiovascular disease risk in the Philippines. BL DUBIN, CW KUZAWA.
2. Body composition and lifestyle correlates of high sensitivity C-reactive protein among Latino immigrants in Oregon. EC MIDTTVEIT, HH MCCLURE, JJ SNODGRASS, TW MCDADE, CR MARTINEZ, JM EDDY, RA JIMENEZ, LE ISIODIA.
3. Correlates of C-reactive protein concentrations among the Tsimane of Bolivia: how do they compare to those found in the U.S. population? J WINKING, M GURVEN, H KAPLAN, S VASUNILASHORN, JK KIM, C FINCH, E CRIMMINS.
4. The implications of varying degrees of market integration on blood pressure, glucose, cholesterol, and triglyceride levels in an indigenous lowland Ecuadorian population. MA LIEBERT, JJ SNODGRASS, AD BLACKWELL, FC MADIMENOS, LS SUGIYAMA.
5. C-reactive protein and cardiovascular disease risk factors for women in Cali, Colombia. ME HOWELLS, JC REINA, DL DUFOUR.
6. The association of daily blood pressure variation with changes in body composition in normotensive working women: a longitudinal analysis. H VAN BERGE-LANDRY, GD JAMES.
7. Diurnal ambulatory blood pressure levels are inversely associated with high density lipoprotein (HDL) levels. GD JAMES, LA MORRISON, AM REZA, NM NICOLAISEN, JR. BINDON, DE BROWN.
8. Genetic effects on longitudinal changes in risk factors for chronic disease: the San Antonio Family Heart Study. PE MELTON, HHH GÖRING, TD DYER, SA COLE, DL RAINWATER, AG COMUZZIÉ, MC MAHANEY, JW MACCLUER, J BLANGERO, L ALMASY.
9. Measuring cumulative health burden as allostatic load in township-dwelling women of Cape Town, South Africa. CM WORTHMAN, I LE ROUX, MJ ROTHERAM-BORUS.
10. Socioeconomic change and biological vulnerability in Rungwe District, Tanzania: a preliminary qualitative and quantitative analysis. KJ WEINSTEIN, JG ELLISON.
11. Health, culture and the importance of family in older adults in Kolkata, India. SR WILLIAMS, BN PAUL.
12. Education and health related outcomes among older adults living in rural North Dakota. DL HOWELL, SR WILLIAMS.
13. Sex-differentiated parental care and child nutritional and inflammation status 5–9 years postcontact in the fringe highlands of Papua New Guinea. JA DECARO, E DECARO, CM WORTHMAN.

14. Evidence of autoimmune thyroid disorders among the Yakut of Siberia. TJ CEPON, JJ SNODGRASS, WR LEONARD, LA TARSKAIA, TM KLIMOVA, VG KRIVOSHAPKIN.
15. Social and geographic determinants of iodine deficiency among young women in Mali. LR PAWLOSKI, TF LESLIE.
16. Stress response and immune function during sex transition: perceived stress, ambulatory blood-pressure and immune function among transgendered men. Z DUBOIS.
17. Tobacco use among Blackfeet women. SL JOHNSTON.
18. The effects of epidemic disease among Native Californians at Mission San Diego, 1769–1815. C ORBANN.
19. The role of neighborhood characteristics and discrimination on differences between Blacks and Whites in deep sleep. LM GERBER, A KRIEGER, GO OGEDEGBE, TG PICKERING, JE SCHWARTZ.
20. Association between sleep duration and body size differs between three Hispanic groups. KL KNUTSON.
21. Functional adaptation to sleep loss in adolescents. KM ORZECH.
22. Investigating the effects of testosterone and its metabolites on personality, masculinity, depression, and sexual function among overweight men. PB GRAY, RA LIPPA, PS LIAO, KL HERBST.
23. Early developmental androgens and sex differences in abdominal fat. MH MCINTYRE, R CLAPAUCH, P ARRUDA, GH LOWTHER, AG SHIWLOCHAN.
24. “On-demand” breastfeeding: the baby in the driver’s seat or the back seat? DP TRACER.
25. Variations in the fat content of human breast milk: a MILC study. MA AIELLO, EA QUINN, P MALHOTRA, AA MILLER.
26. Breast milk characteristics of Filipino women: maternal and infant effects. EA QUINN.
27. Mother’s own breastfeeding length predicts hemoglobin levels during lactation. IT AZAM, CW KUZAWA, EA QUINN.
28. Maternal feeding styles, feeding practices and the development of overweight in African-American infants. AL THOMPSON, LS ADAIR, ME BENTLEY.
29. The effects of lactation on maternal nutritional status in rural Bolivian *altiplano* communities. A ROLLINS, H SPIELVOGEL, J THORNBURG, VJ VITZTHUM.
30. Variability and determinants of “rural nutrition” in contemporary Brazil: evidence from a mountainous region of the State of Rio de Janeiro. AEP LOURENÇO.
31. Obesity in small cities and towns in Latin America: is the urban/rural distinction too simplistic? TA BEKELMAN, DL DUFOUR.
32. Investigating the rural-urban distinction in low-income Colorado schoolchildren. RL BENDER, DL DUFOUR, ES BELANSKY.
33. Economically disadvantaged urban women in Colombia have low physical activity levels. PD STEPHENS, HS WILLIAMS, DL DUFOUR.
34. Physical activity among rural children in the San Luis Valley, Colorado. HS WILLIAMS, DL DUFOUR, JM MARSHALL.
35. Heritability of quantitative physical activity measures in children from the Jirel ethnic group in eastern Nepal. KD WILLIAMS, J BLANGERO, R NAHHAS, T DYER, J SUBEDI, B JHA, S WILLIAMS-BLANGERO, B TOWNE.
36. Corroborating accelerometry-based physical activity data with self-report data. FC MADIMENOS, TJ CEPON, JJ SNODGRASS, LS SUGIYAMA.
37. Native American risk to obesity: dietary and thyroid relationships among the Akwesasne Mohawk. KK BURNITZ, LM SCHELLI, MV GALLO.
38. Adolescent behavioral predictors of increased adult body mass index. HH MCCLURE, JM EDDY, JJ SNODGRASS, CR MARTINEZ, JM KJELLSTRAND, JJ CEARLEY.

39. A systematic review of childhood obesity and socioeconomic status in South Asians: the literature. E MCCLURE, LJ ELLS, GR BENTLEY.
40. The effect of childhood overweight on female pubertal development: a systematic review. CE O'CONNOR, LJ ELLS, GR BENTLEY.
41. School meals in the UK: dinner ladies and the resistance movement to junk food. VJ MCGOWAN, LJ ELLS, GR BENTLEY.
42. Migration, nutrition, and ageing (MINA) across the lifecourse in Bangladeshi families: a transnational perspective. B BOGIN, JL THOMPSON, J MERRELL, P MEIERM HEINRICH, V GARAJ.
43. Economic change and nutritional status of *Ribeirinhos*, eastern Amazon, Brazil. JE SPENCE, BA PIPERATA.
44. Malnourishment and bone degeneration: implications for osteology in human foragers under poor nutritional conditions. CD BUZNEY.
45. Gender, care giving and nutrition in Kenya: grandmothers gain, grandfathers lose. GH ICE, J YOGO, E JUMA, V HEH.
46. Dietary intakes of two minority groups in Terai Region of Nepal. RP PARAJULI, M UMEZAKI, C WATANABE.
47. People, food, and health: how qualitative inquiry can inform our understanding of nutritional health disparities. SR TAYLOR.
48. Milk or dairy intake has no impact on birth outcome in a rural and urban cohort from Pune, India. HG LUBREE, AS WILEY, SM JOSHI, LV RAMDAS, AA GANPULE, NV THUSE, VU DESPANDE, CS YAJNIK.
49. Altitude, birth weight, and infant mortality. EK O'NEILL, F FANG, H STRATTON, TB GAGE.
50. The growth of Pakistani and white British infants, living in Bradford UK, in comparison to the WHO standards. N CAMERON, W JOHNSON, J WRIGHT.
51. Diurnal cortisol rhythms and birth weight in the Cebu Study. ZM THAYER, CW KUZAWA.
52. Use of a pooled resource model to assess the effects of Shuar family members on juvenile growth across ecological contexts. AD BLACKWELL, W TIWI, LS SUGIYAMA.
53. Testosterone, body composition, and strength among Filipino males. LT GETTLER, S AGUSTIN, C KUZAWA.
54. Metabolic hormone production in female college athletes. JE HANSON, CL LANGENBERG, MA GRIMES.
55. Assessing longitudinal growth in bone density in females at the heel using ultrasound. DL OSBORNE, JM LAPPE, DM CULLEN, PA WATSON.
56. Growth and nutritional status of Portuguese children from Lisbon and their parents: time trends between 1971 and 2001. MI VARELA-SILVA, I FRAGOSO, F VIEIRA.
57. Changes in body size and body shape among 6- to 15-year-old Portuguese school children, between 1930 to 2007. C PADEZ.
58. Effects of omega-3 fatty acid intake on neurodevelopment in childhood. AS RYAN.
59. Salivary progesterone and PROGINS genotype impact endometrial characteristics. EJ ROWE, J JOSEPH, O GEIFMAN-HOLTZMAN, TK EISENSTEIN, LC ROCKWELL.
60. Is cortisol urinary excretion independent of the day of the menstrual cycle? PA NEPOMNASCHY, R ALTMAN, R WATTERSON, C CO.
61. A census-based investigation of relationships among Huntington's disease, traditional life ways, and fertility. C MOSLEY, HJH EDGAR.
62. Traditional birth attendants' insights and biomedical risk: modeling experience with childbirth complications. FG LYNCH, CL PATIL, ET ABRAMS.
63. A nonsynonymous *HNF4A* variant is associated with glycemia during pregnancy and offspring head circumference in populations of European ancestry in the HAPO study. MG HAYES,

H LEE, RM FREATHY, M URBANEK, LP LOWE, C ACKERMAN, NJ COX, DB DUNGER, AR DYER, AT HATTERSLEY, BE METZGER, WL LOWE, for THE HAPO STUDY COOPERATIVE RESEARCH GROUP.

64. Birth interval and maternal liver vitamin A status in northern Kenya. L GORDON, M FUJITA.
65. Lack of ethnic variation in hot flash experience at midlife in Hilo, Hawaii. LL SIEVERT, LA MORRISON, NJ RAHBERG, AM REZA, P MILLS, DE BROWN.
66. Age at natural menopause or hysterectomy in migrants from South Asia and women of European origin living in Newcastle, UK: survival analyses. A NUNEZ-DE LA MORA, TM POLLARD, R BHOPAL, M WHITE, N UNWIN.
67. Lower ovarian reserve among Hindu versus Muslim women in Bangladesh. K BEGUM, GR BENTLEY, LL SIEVERT, T SHARMEEN, O CHOWDHURY, S MUTTUKRISHNA.
68. A meta-analysis of fat intake, reproduction and breast cancer risk: an evolutionary perspective. L TURNER JONES.
69. The Basques in the genetic landscape of Europe. K YOUNG, A APRAIZ, EJ DEVOR, M GROSE, G SUN, R DEKA, MH CRAWFORD.
70. HLA genes in Uros, an ancient reed-floating-island living people from Lake Titikaka (Peru), reveal a complex peopling of the Americas. A ARNAIZ-VILLENA, C PARGA, S ABD-EL-FATAH-KHALIL, D REY, P GOMEZ-PRIETO.
71. Pathway-oriented analysis of genome-wide association studies of neuroelectrical measurements for African- and European-American case-control subjects with alcohol dependence. M ZLOJUTRO, N MANZ, M RANGASWAMY, X XUEI, L FLURY-WETHERILL, D KOLLER, LJ BIERUT, A GOATE, V HESSELBROCK, S KUPERMAN, J NURNBERGER JR, JP RICE, MA SCHUCKIT, T FOROUD, HJ EDENBERG, B PORJESZ, L ALMASY.
72. Leukocyte telomere lengths across eleven European countries: description of population variation and possible explanatory factors. DTA EISENBERG, KD SALPEA, CW KUZAWA, MG HAYES, SE HUMPHRIES, on behalf of THE EUROPEAN ATHEROSCLEROSIS RESEARCH STUDY (EARS) II GROUP.

12:00 p.m.

**LUNCH BREAK**

1:00 p.m.

**OPENING WELCOME**

Gary D James  
President of the Human Biology Association  
*Alvarado Ballroom AB*

**INTRODUCTION TO PLENARY SESSION**

BENJAMIN CAMPBELL, Organizer and Chair  
*Alvarado Ballroom AB*

1:15–4:45 p.m.

**PLENARY SESSION**

**Human Biology and the Brain**

*Alvarado Ballroom AB*

Recent developments in neuroscience, including both brain imaging and genomics, have provided us with an increasingly detailed picture of the brain and brain function. However, research in neuroscience has tended to be reductionist, i.e., directed toward the description of neural mechanisms with little concern for their larger organismal influences and/or social contexts. As a consequence, our understanding of the human brain is biased by the assumption that human brain function in the high-energy, low-disease-exposure and high-technological-demand environment of industrialized populations is representative of human brains that evolved in conditions of energy limitation, disease exposure and limited technology. On the other hand, human biologists have traditionally had little to say about the brain, despite its central role in human biology, adaptation and evolution. This lack of attention represents the legacy of western philosophical mind-body duality that considers the brain in isolation from the body, and divorces the impact of

social and biological factors on the human individual. However, it also reflects the practical difficulties of studying the brain and brain function in naturalistic settings, including non-western small scale societies. Recent developments in the neurosciences provide a basis for considering the brain as part of a human biology that integrates ecological and social conditions within an evolutionary framework. These include detailed description of human neuroanatomy in comparative primate context that allow for a greater appreciation of the role of the brain in human sociality, increasingly powerful genetic techniques for investigating brain function across populations, and an increasing appreciation of the brain as a metabolic organ, as well as an expanding fossil record of human evolution. Finding ways to integrate these new develops from neuroscience into human biology's integrative perspective and traditional focus on human population variation will be an important change in the coming decade.

- 1:15 p.m. The evolution of the meningeal vascular system in the human genus: from brain shape to thermoregulation.  
E BRUNER, S MANTINI, S SHERKAT, JM DE LA CUÉTARA, F MUSSO, M RIPANI
- 1:45 p.m. Defining the evolved human brain phenotype.  
CC SHERWOOD
- 2:15 p.m. Comparative genetic approaches for understanding the evolution of human brain and behavior.  
EJ VALLENDER
- 2:45 p.m. COFFEE BREAK
- 3:15 p.m. Build-ups in the supply chain of the brain: on the neuroenergetic cause of obesity and type 2 diabetes mellitus.  
A PETERS
- 3:45 p.m. Life history and human brain development.  
B CAMPBELL
- 4:15 p.m. Epigenetics, imprinting, and human disease susceptibility.  
R GARRUTO
- 4:45 p.m. BREAK
- 5:00 p.m. **PEARL MEMORIAL LECTURE**  
The Von Economo Neurons.  
JOHN ALLMAN  
*Alvarado Ballroom AB*

#### **THURSDAY, APRIL 15, 2010**

- 8:30–10:00 a.m. **PODIUM SESSION A: Applied Research: Growth, Nutrition**  
Chair: Kathryn A. Hicks  
*Weavers Room*
- 8:30 a.m. Skeletal age analysis of children with gnathic clefts.  
EJ BOWERS, JM NYCE, N MINUGH-PURVIS, PS PASQUERIELLO.
- 8:45 a.m. Effects of dietary patterns on bone density in children.  
BS ZEMEL, J GILBERG, VA STALLINGS, D PAULHAMUS.
- 9:00 a.m. Big bodies, small world: tracking the relationship between body mass and fat stigma across diverse ecologies.  
AA BREWIS, I RODRIGUEZ-SOTO.

- 9:15 a.m. Sitting height and obesity in adults from the Nunavut Inuit Health Survey: implications for obesity prevalence in circumpolar populations. T GALLOWAY, TK YOUNG, GM EGELAND, THE NUNAVUT INUIT HEALTH SURVEY STEERING COMMITTEE.
- 9:30 a.m. Changes in body composition in response to access to store foods: a comparative study in agricultural populations in the Yucatan Peninsula. FD GURRI.
- 9:45 a.m. Dietary intake among Riberinha women in the eastern Amazon: evidence of a nutrition transition? SA IVANOVA, BA PIPERATA.
- 10:00 a.m. **COFFEE BREAK**
- 10:15–11:45 a.m. **PODIUM SESSION B: Women’s and Children’s Health**  
Chair: Kathryn A. Hicks  
*Weavers Room*
- 10:15 a.m. Maternal vigilance strategies and infant health outcomes in the Tsimane of Bolivia. A VEILE, H KAPLAN, M GURVEN, J WINKING.
- 10:30 a.m. Relationship between physical activity, body composition and basal metabolic rate in postmenopausal women. AW FROEHLE, HT NGO, SR HOPKINS, L NATARAJAN, MJ SCHOENINGER.
- 10:45 a.m. Timing of menopause among British Pakistani women in West Yorkshire. MT BLELL.
- 11:00 a.m. Postpartum variation in breast milk IgA. EM MILLER, DS MCCONNELL.
- 11:15 a.m. Lactational dysfunction in overweight women. LE HAUFF, EW DEMERATH.
- 11:30 a.m. Past reproductive morbidity and current contraceptive use in a high fertility population. S ARPS.
- 12:00–1:30 p.m. **HUMAN BIOLOGY ASSOCIATION ANNUAL AWARDS LUNCHEON**  
*Potters Room*
- 2:00–3:30 p.m. **PODIUM SESSION C: Hormones, Behavior and Life History Trade-offs**  
Chair: Jason DeCaro  
*Weavers Room*
- 2:00 p.m. Glossolalia influences on cortisol and alpha-amylase among Apostolic Pentecostals: Investigating the stress-mediating affects of dissociation. CD LYNN.
- 2:15 p.m. The “tend and befriend” model comes of age: oxytocin is released in female children after application of a social stressor. LJ SELTZER, SD POLLAK.
- 2:30 p.m. Associations of two biomarkers with stress during the breastfeeding period among low-income new mothers from São Paulo, Brazil. A RUDZIK, A BREakey, R BRIBIESCAS.

- 2:45 p.m. Elevated diurnal cortisol rhythms predict growth stunting among Tsimane' children.  
CH NYBERG, S TANNER, TW MCDADE, WR LEONARD.
- 3:00 p.m. Testosterone and male life history: evidence for developmental adaptation in the Philippines.  
CW KUZAWA, TW MCDADE, S AUGUSTIN.
- 3:15 p.m. The hormonal platform for conception in natural fertility populations: lactation and ovulation  
JB LANCASTER, LC ALVARADO.
- 3:30 p.m. **COFFEE BREAK**
- 3:45–5:00 p.m. **PODIUM SESSION D: Inflammation, Stress and Health**  
Chair: Christie Rockwell  
*Weavers Room*
- 3:45 p.m. Ovarian, energetic and inflammatory variables are associated with serial endometrial thickness measurements in a sample of Canadian women.  
KBH CLANCY, AR BAERWALD, RA PIERSON.
- 4:00 p.m. Early origins of inflammation: prenatal and postnatal environments predict pro- and anti-inflammatory cytokines in young Filipino adults.  
TW MCDADE, C KUZAWA, Y HUANG.
- 4:15 p.m. Tsimane health and life history project: inflammation does not always promote arterial aging and cardiovascular disease risk factors.  
M GURVEN, H KAPLAN, J WINKING.
- 4:30 p.m. Effects of diet, household economy and social stress on growth and health of indigenous Shuar of Ecuadorian Amazonia.  
LS SUGIYAMA, JJ SNODGRASS, AD BLACKWELL, FC MADIMENOS, MA LIEBERT.
- 4:45 p.m. Embodying violence and the biocultural approach: how can we revise our models to better inform global health disparities?  
IL PIKE, BS STRAIGHT, C HILTON, M OESTERLE.

## FRIDAY, APRIL 16, 2010

- 8:00 a.m.–12:00 p.m. **JOINT AAPA/HBA SYMPOSIUM**  
Pathogens and Evolution of Humans and Nonhuman Primates  
Organizers: Jessica F Brinkworth and Ekaterina Pechenkina  
*Alvarado Ballroom A*
- 8:00 a.m. Primates, pathogens, and evolution: a context for understanding emerging disease.  
G ARMELAGOS, K HARPER
- 8:15 a.m. Molecular arms races between hosts and pathogens in primate evolution.  
NC ELDE, HS MALIK
- 8:30 a.m. Tracking ancient lentiviral infiltrations in the genomes of Malagasy lemurs.  
C FESCHOTTE, C GILBERT, DG MAXFIELD, SM GOODMAN.
- 8:45 a.m. Infectious disease dynamics in socially-structured populations.  
C NUNN

- 9:00 a.m. Primate evolution of antimicrobial high-density lipoprotein.  
J RAPER, R THOMSON, M CARRINGTON.
- 9:15 a.m. Evolution of functional genetic variation at immune loci in wild baboons.  
J TUNG, SC ALBERTS, GA WRAY
- 9:30 a.m. An evolutionary and population genetic approach to malaria susceptibility in Africa.  
W KO, F GOMEZ, S TISHKOFF
- 9:45 a.m. Variation in toll-like receptor function in old world monkeys, apes, and humans.  
J BRINKWORTH, SM GOYERT, J SILVER.
- 10:00 DISCUSSION
- 10:15 BREAK
- 10:30 a.m. Sialic acids and the host-pathogen interface—roles in hominid evolution  
A VARKI
- 10:45 a.m. Indigenous intestinal flora, polyparasitism, and immune responses in the Bolivian lowland tropics.  
M MARTIN, M GURVEN, H KAPLAN, D SELA.
- 11:00 a.m. Evolution of human aging.  
C FINCH
- 11:15 a.m. Cytokine polymorphisms in human populations: testing the pathogen hypothesis.  
F CRESPO, R FERNANDEZ-BOTRAN, M CASANOVA, C TILLQUIST
- 11:30 a.m. DISCUSSION