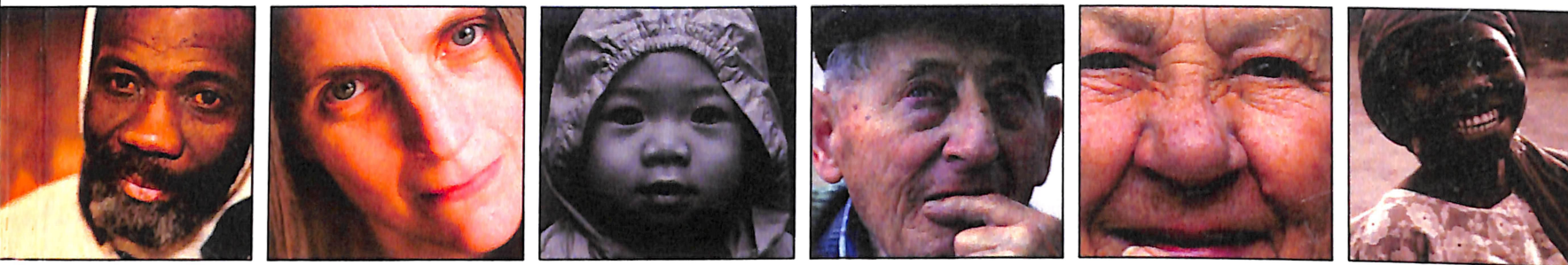
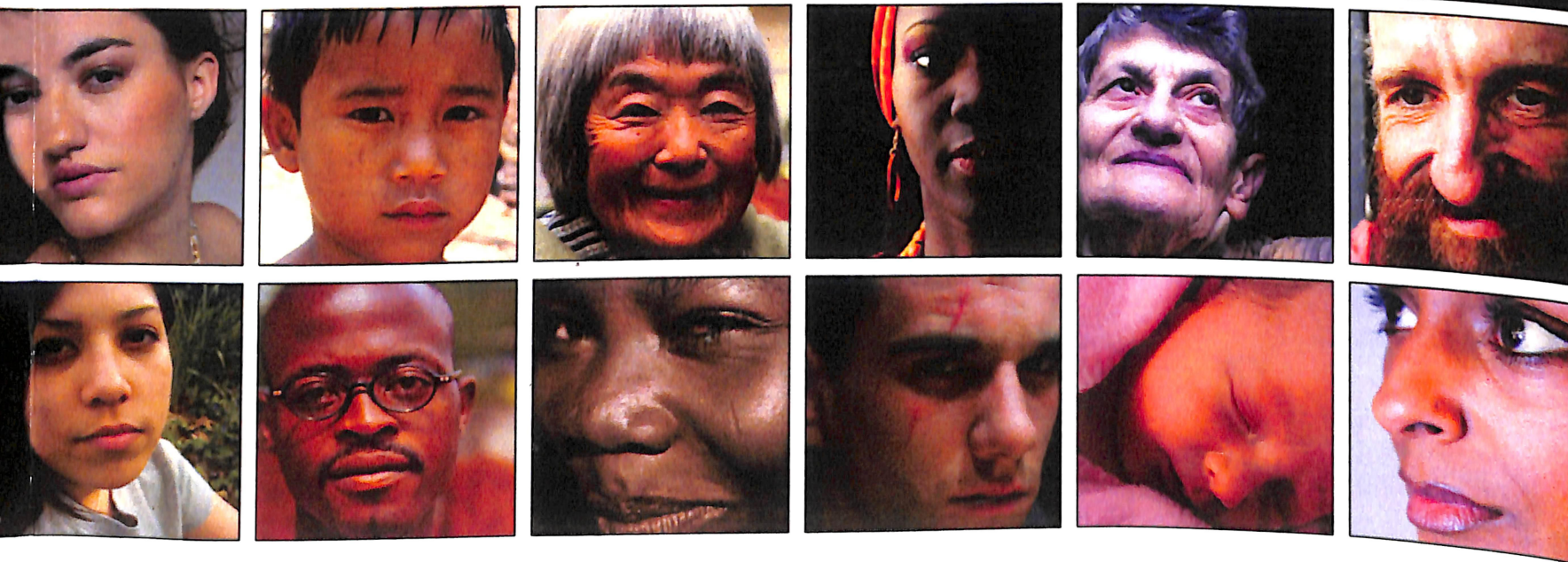


Volume 42 Numbers 1-6 January–November 2015



Annals of
Human Biology
Journal of the Society for the Study of Human Biology



 Taylor & Francis
Taylor & Francis Group

ISSN 0301-4460

Editors
N. Cameron
O. Rickards
B. Zemel



Annals of HUMAN BIOLOGY

Volume 42 Issues 1–6 2015

ISSN 0301-4460

Contents

- Issue 1**
- Review Paper**
- 1 The epigenetic side of human adaptation: hypotheses, evidences and theories
Cristina Giuliani, Maria Giulia Bacalini, Marco Sazzini, Chiara Pirazzini, Claudio Franceschi, Paolo Garagnani, and Donata Luiselli
- Research Papers**
- 10 Methodological strategies to assess the degree of bone preservation for ancient DNA studies
Gabriele Scorrano, Federica Valentini, Cristina Martínez-Labarga, Mario Federico Rolfo, Antonella Fiammenghi, Domenico Lo Vetrol, Fabio Martini, Antonella Casoli, Giovanni Ferraris, Giuseppe Palleschi, Antonio Palleschi, and Olga Rickards
- 20 Mirandese language and genetic differentiation in Iberia: a study using X chromosome markers
J. C. Pinto, V. Pereira, S. L. Marques, A. Amorim, L. Alvarez, and M. J. Prata
- 26 The *CELSRI* polymorphisms rs6007897 and rs4044210 are associated with ischaemic stroke in Chinese Han population
Yi-Hong Zhan, Yi Lin, Sui-Jun Tong, Qi-Lin Ma, Cong-Xia Lu, Ling Fang, Wei Wei, Bin Cai, and Ning Wang
- 31 Associations of objectively assessed sleep and physical activity in 11-year old children
Maroje Sorić, Gregor Starc, Katarina T. Borer, Gregor Jurak, Marjeta Kovač, Janko Strel, and Marjeta Mišigoj-Duraković
- 38 Height of South Asian children in the Netherlands aged 0–20 years: secular trends and comparisons with current Asian Indian, Dutch and WHO references
Jeroen A. de Wilde, Paula van Dommelen, Stef van Buuren, and Barend J. C. Middelkoop
- 45 Weight and body mass index (BMI): current data for Austrian boys and girls aged 4 to under 19 years
Michael Mayer, Andreas Gleiss, Gabriele Häusler, Martin Borkenstein, Klaus Kapelari, Gerhard Köstl, Michael Lassi, Michael Schemper, Klaus Schmitt, and Peter Blümel
- 56 Waist circumference centiles by age and sex for Japanese children based on the 1978–1981 cross-sectional national survey data
Makoto Anzo, Mikako Inokuchi, Nobutake Matsuo, John I. Takayama, and Tomonobu Hasegawa
- 62 Referential values for the physical growth of school children and adolescents in Campinas, Brazil
Rossana Gómez Campos, Miguel de Arruda, Jefferson Eduardo Hespagnol, Cristiane Camargo, Richard Micheal Briton, and Marco Antonio Cossio-Bolanós
- 70 Body shape indices and cardiometabolic risk in adolescents
Ying Xu, Weili Yan, and Yin Bun Cheung
- 76 Milk immunity and reproductive status among Ariaal women of northern Kenya
Elizabeth M. Miller, and Daniel S. McConnell
- 84 Indigenous populations in transition: An evaluation of metabolic syndrome and its associated factors among the Toba of northern Argentina
Elena Sofía Lagranja, Pam Phojanakong, Alicia Navarro, and Claudia R. Valeggia
- 91 Adult fat content: reinterpreting and modelling the Benn Index and related sex differences
Richard F. Burton
- Human Biological Survey**
- 97 Genetic variation in dihydropyrimidine dehydrogenase (*DPYD*) gene in a healthy adult Indian population
Sandhya N. Iyer, Rekha S. Singhal, Madhuri R. Hegde, and Arunkanth Ankala
- Short Report**
- 101 Lactase genetic polymorphisms and coeliac disease in children: a cohort study
Raja A. H. Kuchay, Babu R. Thapa, Akhtar Mahmood, Mumtaz Anwar, and Safrun Mahmood
- 105 Acknowledgement to Referees
- Issue 2**
- Research Papers**
- 109 Malaysian growth centiles for children under six years old
Yiibonn Bong, Asma Ahmad Shariff, Abdul Majid Mohamed, and Amir Feisal Merican
- 117 Reference values of vertical jumping performances in healthy Tunisian adolescent
Mohamed Tounsi, Chirine Aouichaoui, Mohamed Elloumi, Mohamed Dogui, Zouhair Tabka, and Yassine Trabelsi
- 126 Allometric modelling of peak oxygen uptake in male soccer players of 8–18 years of age
João Valente-dos-Santos, Manuel J. Coelho-e-Silva, Óscar M. Tavares, João Brito, André Seabra, António Rebelo, Lauren B. Sherar, Marije T. Elferink-Gemser, and Robert M. Malina
- 135 The use of anthropometric measurements and the influence of demographic factors on the prediction of VO_{2max} in a cohort of adolescents: the PAHL study
Cindy Pienaar, Ben Coetzee, and Andries M. Monyeke
- 144 Leg length is associated with lower values of inflammatory markers in older Chinese: The Guangzhou Biobank Cohort Study
Yangbo Sun, Chao Qiang Jiang, Kar Keung Cheng, Wei Sen Zhang, Gabriel M. Leung, Tai Hing Lam, and C. Mary Schooling
- 151 Revising the fasting glucose threshold for detection of cardiovascular risk factors: analysing two representative population-based studies of more than 50 000 Iranians in 3 years: The National Survey of Risk Factors for Non-Communicable Diseases of Iran
Alireza Esteghamati, Ali Zandieh, Nima Hafezi-Nejad, Sara Sheikhhahaei, Mehrshad Abbasi, Mohamad M. Gouya, and Manouchehr Nakhjavani
- 160 Model-based patterns of cardiovascular risk factors in Mozambique
Patricia Padrão, Milton Severo, Albertino Damasceno, Carla Silva-Matos, António Prista, Ana Azevedo, and Nuno Lunet
- 168 A biosocial approach to living conditions: inter-generational changes of stature dimorphism in 20th-century Spain
Antonio D. Cámara

- 179 Association of neuropeptide Y gene rs16147 polymorphism with metabolic syndrome in patients with documented coronary artery disease
Seyed Alireza Parizadeh, Khadijeh Jamialahmadi, Hassan Rooki, Houshang Zaim-Kohan, Seyed Reza Mirhafez, Nedasadat Hosseini, Javad Mohiti-Ardakani, Mohsen Moohebbati, Ali Masoudi-Kazemabad, Gordon A. Ferns, and Majid Ghayour-Mobarhan
- 185 The association between endothelial nitric oxide synthase gene G894T polymorphism and hypertension in Han Chinese: a case-control study and an updated meta-analysis
Jielin Liu, Lijuan Wang, Ya Liu, Zuoguang Wang, Mei Li, Bei Zhang, Hao Wang, Kuo Liu, and Shaojun Wen
- Short Report**
- 196 Distribution of *APOE* polymorphism in the "Paisa" population from northwest Colombia (Antioquia)
Carlos Velez-Pardo, Winston Rojas, Marlene Jimenez-Del-Rio, and Gabriel Bedoya
- Issue 3**
- Review Paper**
- 201 Age as a moderator of the secular trend for grip strength in Canada and the United States
Irwin W. Silverman
- Research Papers**
- 212 Sitting height as a better predictor of body mass than total height and (body mass)/(sitting height)³ as an index of build
Richard F. Burton
- 217 Maternal vitamin D status and infant anthropometry in a US multi-centre cohort study
Cara L. Eckhardt, Alison D. Gernand, Daniel E. Roth, and Lisa M. Bodnar
- 225 Reference charts of sitting height, leg length and body proportions for Chinese children aged 0–18 years
Ya-qin Zhang, and Hui Li
- 233 Pedometer determined physical activity and obesity prevalence of Greek children aged 4–6 years
Antonis Kambas, Fotini Venetsanou, Alexandra Avloniti, Dimitra M. Giannakidou, Vassilios Gourgoulis, Dimitrios Draganidis, Athanasios Chatzinikolaou, Ioannis Fatouros, and Maria Michalopoulou
- 239 Direct and self-reported measures of physical activity and sedentary behaviours by weight status in school-aged children: results from ISCOLE-Kenya
Stella K. Muthuri, Lucy-Joy M. Wachira, Vincent O. Onywera, and Mark S. Tremblay
- 248 Evidence of a hyperkinetic state in children with elevated blood pressure
Daniele Chirico, Terrance J. Wade, John Cairney, Panagiota Klentrou, and Deborah D. O'Leary
- 255 Secular trends in cranial morphological traits: a socioeconomic perspective of change and sexual dimorphism in North Americans 1849–1960
Kanya Godde
- 262 From left-skewness to symmetry: how body-height distribution among Swiss conscripts has changed shape since the late 19th century
Kaspar Staub, Joël Floris, Ulrich Woitek, and Frank Rühli
- 270 Vasomotor and urogenital problems at midlife: a study on rural and urban women in India
Doyel Dasgupta, and Subha Ray
- 278 Monocyte chemoattractant protein-1 (*MCP-1*) g.-2518A>G polymorphism and susceptibility to type 2 diabetes (T2D) and end stage renal disease (ESRD) in the North-West Indian population of Punjab
Priyanka Raina, Kawaljit Matharoo, and A. J. S. Bhanwer
- 285 Genetic variation in key genes associated with statin therapy in the Azores Islands (Portugal) healthy population
Mafalda S. Melo, Leticia Balanco, Claudia C. Branco, and Luisa Mota-Vieira
- Short Report**
- 292 Comparisons in ambulatory physical activity in children from the United Kingdom and Belgium
Michael J. Duncan, Samantha L. Birch, Emma Eyre, Elizabeth Bryant, Cindy Rutten, Filip Boen, and Jan Seghers
- Obituary**
- 295 Bengt Saltin 1935–2014
Dirk Lund Christensen, and Robert M. Malina
- Issue 4**
- Editorial**
- 299 Age estimation
Helen M. Liversidge, Jo Buckberry, and Nicholas Marquez-Grant
- Reviews**
- 302 Can maturity indicators be used to estimate chronological age in children?
Noël Cameron
- 308 An overview of age estimation in forensic anthropology: perspectives and practical considerations
Nicholas Márquez-Grant
- 323 The (mis)use of adult age estimates in osteology
Jo Buckberry
- 332 The effect of factors other than age upon skeletal age indicators in the adult
Simon Mays
- Research Papers**
- 342 The Danish approach to forensic age estimation in the living: how, how many and what's new? A review of cases performed in 2012
Sara Tangmose Larsen, Sara Arge, and Niels Lynnerup
- 348 The epiphyseal scar: changing perceptions in relation to skeletal age estimation
Catriona Davies, Lucina Hackman, and Sue Black
- 358 What automated age estimation of hand and wrist MRI data tells us about skeletal maturation in male adolescents
Martin Urschler, Sabine Grassegger, and Darko Štern
- 368 Multivariate cumulative probit for age estimation using ordinal categorical data
Lyle W. Konigsberg
- 379 The evidential value of developmental age imaging for assessing age of majority
T. J. Cole
- 389 Combining wrist age and third molars in forensic age estimation: how to calculate the joint age estimate and its error rate in age diagnostics*
Bianca Gelbrich, Carolin Frerking, Sandra Weiß, Sebastian Schwerdt, Angelika Stellzig-Eisenhauer, Eve Tausche, and Götz Gelbrich
- 397 Controversies in age estimation from developing teeth
Helen M. Liversidge
- 407 Oral histories: a simple method of assigning chronological age to isotopic values from human dentine collagen
Julia Beaumont, and Janet Montgomery
- 415 Age estimation in fossil hominins: comparing dental development in early *Homo* with modern humans
M. Christopher Dean, and Helen M. Liversidge

Research Papers

- 431 Geographical altitude, size, mass and body surface area in children (1–4 years) in the Province of Jujuy (Argentina)
Estela María Román, Ignacio Felipe Bejarano, Emma Laura Alfaro, Guadalupe Abdo, and José Edgardo Dipierri
- 439 Weight and height percentiles calculated by the LMS method in Argentinean schoolchildren. A comparative references study
Evelia E. Oyhenart, Delia B. Lomaglio, Silvia L. V. Dahinten, Ignacio F. Bejarano, Ángel Herráez, María F. Cesani, María F. Torres, María A. Luis, Fabián A. Quintero, Emma L. Alfaro, Alicia B. Orden, María L. Bergel Sanchis, Marisa González-Montero de Espinosa, Mariela Garraza, María E. Luna, Luis M. Forte, María S. Mesa, Susana Moreno Romero, Noemí López-Ejeda, José E. Dipierri, and María D. Marrodán
- 447 Secular trends of growth and pubertal maturation of school children in Southern Thailand
Somchit Jaruratanasirikul, and Hutcha Sriplung
- 455 Genetic association analyses of fast plasma glucose level in premenopausal Chinese women: potential interaction between osteocalcin and oestrogen receptor
Hong Xu, Lu-Ling He, Chao-Peng Xiong, Cheng-xin Gong, Chang-Le Liu, Lu-Lu Peng, Ya-Jun Cheng, Fu-Qing Jiang, Li-Ping Tan, Lan Tang, Wei Peng, Yun-Ming Tu, Yu-Ping Yang, Dan Luo, Lin Zou, and Shang-Dong Liang
- 461 Association of ACE, FABP2 and GST genes polymorphism with essential hypertension risk among a North Indian population
Shania Abbas, Syed Tasleem Raza, Anu Chandra, Saliha Rizvi, Faisal Ahmed, Ale Eba, and Farzana Mahdi
- 470 VDR polymorphisms are associated with bone mineral density in post-menopausal Mayan-Mestizo women
Thelma Canto-Cetina, José Antonio Cetina Manzanilla, Lizbeth González Herrera, David Rojano-Mejía, Ramón Mauricio Coral-Vázquez, Agustín Coronel, and Patricia Canto
- 476 Distribution of killer cell immunoglobulin-like receptor genes in population of Vojvodina, Serbia
Svetlana I. Vojvodić, Dušica S. Ademović-Sazdanić, Stevan L. Popović, and Nada V. Konstantinidis
- 485 Discovery of copy number variants by multiplex amplifiable probe hybridization (MAPH) in candidate pigmentation genes
Saioa López, Iker García, Isabel Smith, Arrate Sevilla, Neskuts Izagirre, Concepción de la Rúa, and Santos Alonso

Human Biological Survey

- 494 Allele frequencies for 13 STRs loci in a Western Anatolia population and their forensic evaluation
Aysun Baransel Isir, Abdulmuttalip Ozkorkmaz, and Sacide Pehlivan
- 498 Body composition in offspring of New Zealand women: ethnic and gender differences at age 1–3 years in 2005–2009
Elaine C. Rush, Victor Obolonkin, Malcolm Battin, Trecia Wouldes, and Janet Rowan

Short Reports

- 504 Denial is associated with higher ambulatory blood pressure across the menstrual cycle
Gary D. James, and Celia G. Murnock

- 507 Optimal treatment of replicate measurements in anthropometric studies
Eduardo Villamor, and Ronald J. Bosch

Issue 6

Research Papers

- 511 The place of Slovakian paternal diversity in the clinal European landscape
Jana Nováčková, Dagmar Dreslerová, Viktor Černý, and Estella S. Poloni
- 523 Comparative study of Gilsanz-Ratib digital atlas and Greulich-Pyle atlas for bone age estimation in a Chinese sample
Fang-Qin Lin, Ji Zhang, Zhen Zhu, and Yu-Meng Wu
- 528 Body weight status misperception and its association with weight control behaviours, depressive mood and psychological distress in nulliparous normal-weight young women
Kwang-Mee Lee, Min-Seok Seo, Jae-Yong Shim, and Yong-Jae Lee
- 533 Trends in thin body stature among Japanese female adolescents, 2003–2012
Mikako Inokuchi, Nobutake Matsuo, John I. Takayama, and Tomonobu Hasegawa
- 538 Assessment of fat-free mass from bioelectrical impedance analysis in obese women with Prader-Willi syndrome
Giorgio Bedogni, Graziano Grugni, Gabriella Tringali, Fiorenza Agosti, and Alessandro Sartorio
- 543 Herpes simplex virus type 2 among mobile pastoralists in northwestern Namibia
Ashley Hazel, Betsy Foxman, and Bobbi S. Low
- 552 Association of interleukin genes polymorphism with asthma susceptibility in Indian children: a case-control study
Pratibha Dixit, Shally Awasthi, and Sarita Agarwal
- 560 Gene polymorphisms related to insulin resistance and gene–environment interaction in colorectal cancer risk
Xiaoqin Hu, Fei Feng, Xiaoling Li, Ping Yuan, Rongsheng Luan, Jin Yan, Wenhui Liu, and Yanfang Yang
- 569 The association between blood cadmium level and airflow obstruction in Korean men
Jin-Ha Yoon, Inah Kim, Hyoung-Ryoul Kim, Jong-Uk Won, Kyu-Jung Bae, Pil-Kyun Jung, and Jaehoon Roh

Human Biological Survey

- 576 Prevalence of genetic prothrombotic risk factors: 1691G > A FV, 20210G > A PT and 677C > T MTHFR mutations in the Bosnian population
Grażyna Adler, Garstka Agnieszka, Amina Valjevac, Ewa Czerska, Emina Kiseljakovic, and Nermin Nusret Salkic

Short Reports

- 581 Changes in nutritional status among displaced North Korean children living in South Korea
Soo-Kyung Lee, So-Young Nam, and Daniel Hoffman
- 585 DNA damage: beta zero versus beta plus thalassemia
Chandan S. Sagar, Rakesh Kumar, Dharmesh C. Sharma, and Purnima Kishor

Announcement

- 589 The Nick Norgan Award 2015