ISEMPH2019: INTERNATIONAL SOCIETY FOR EVOLUTION, MEDICINE, AND PUBLIC HEALTH 2019

PROGRAMAUTHORSKEYWORDS

PROGRAM

Days: Tuesday, August 13th Wednesday, August 14th Thursday, August 15th Friday, August 16th

Tuesday, August 13th

View this program: with abstractssession overviewtalk overview

09:00-12:00 Session 1: Pre-conference workshop on Oxytocin

Begins Aug 12 afternoon. To register contact Adrian Jaeggi – adrian.jaeggi@iem.uzh.ch. For details see https://isemph.org/Program-2019

CHAIR: Adrian Jäggi

LOCATION: 220

12:00-13:00 Session 2: Publication committee meeting

CHAIR: Charles Nunn

LOCATION: 203

13:15-14:45 Session 3: Education committee meeting

For members of the Education Committee. Please contact Jay Labov if you would like to help with the work of this committee

CHAIR: Jay Labov

LOCATION: 203

15:00-16:30 Session 4: Developing the field meeting

All who are running or considering developing an evolutionary medicine program are welcome to attend and share notes and ideas

CHAIR: Randolph Nesse

LOCATION: 203

17:30-19:30 Welcome Reception

LOCATION: Terrace

19:30-21:45 Session 5: Council meeting

At Restaurant Mère Catherine, Nägelihof 3, 8001 Zürich

CHAIR: Randolph Nesse

Wednesday, August 14th

View this program: with abstractssession overviewtalk overview

09:00-09:30 Session 6: Opening notes

With welcoming words by the President of the University of Zurich Prof. Michael Hengartner.

CHAIR: Frank Rühli

LOCATION: Aula

09:30-10:30 Session 7: Keynote Kayla King

CHAIR: John Baines

LOCATION: Aula

09:30

Kayla King

Protectors and killers: microbial drivers of pathogen evolution (abstract)

10:30-11:00Coffee Break

11:00-12:20 Session 8A: Antibiotic resistance

CHAIR: Joseph Graves

LOCATION: Aula

11:00

Hinrich Schulenburg and Roderich Roemhild

Evolutionary ecology meets the antibiotic crisis: Can we control pathogen adaptation? (abstract)

11:20

Lindsay Sonnenkalb, Silvia Maass, Vanessa Mohr, Fenja Boysen, Stefan Niemann and Matthias Merker

Antibiotic resistance evolution of Mycobacterium tuberculosis complex bacteria, during sub-lethal drug exposure (abstract)

11:40

Joseph Graves Jr and Jian Han

Surviving the Greek Gift: Experimental Evolution of Gallium Resistance in Escherichia coli. (abstract)

12:00

Nasreen Haque and Niloufar Haque

Whole genome sequencing reveals the evolutionary trajectories of antibiotic resistance in Staphylococcus pasteuri isolates from human atherosclerotic plaques (abstract)

11:00-12:20 Session 8B: Morphology

CHAIR: Martin Häusler

LOCATION: 217

11:00

Aaron Blackwell

Quantifying the relationship between somatic maintence costs and adult body size (abstract)

11:20

Beverly Strassmann, Zachary Dolo, Claudius Vincenz and Kerby Shedden

Test of two evolutionary hypotheses using longitudinal data on body size and blood pressure (abstract)

11:40

Viktoria A. Krenn, Nicole M. Webb, Robert D. Martin and Martin Haeusler

Why is human childbirth so complex? The obstetrical dilemma hypothesis revisited (abstract)

12:00

Kaspar Staub, Nicole Webb, Viktoria Krenn, Cinzia Fornai, Joël Floris, Nicole Bender, Nikola Koepke and Martin Haeusler

Does the ecological model challenge the obstetrical dilemma? Evidence from historical Swiss data (abstract)

11:00-12:20 Session 8C: Symposium Translational aspects

CHAIR: Nicole Bender

LOCATION: 204

11:00

Joe Alcock

Applications of evolutionary medicine to emergency medicine and critical care (abstract)

11:20

Katharina Quack Lötscher

Obstetrics in translational medicine (abstract)

11:40

Nicole Bender

Mindful eating and common diet programs lower weight similarly: Meta-Analysis (abstract)

12:00

Milo Puhan

Balancing population health benefits and harms of interventions and policies (abstract)

12:20-13:20Lunch Break

13:20-13:50 Session 9: Poster session I

All posters are exhibited during the whole congress, not just the ones listed in the specific session list.

LOCATION: Patio

13:20

Noel Boaz

Retrodictive Disproof of the Onto-Phylogenetic “Just-So Story” and the Role of Narrative in Evolutionary Medicine (abstract)

13:20

Robert Chevalier

Bioenergetic evolution links kidney development, CKD progression and aging (abstract)

13:20

Hans Biesalski and Tabea Hornung

Glucose Transporter 1 (GLUT1) its impact on selection of a phenotype without vitamin C synthesis and on vitamin C requirement in diabetic patients. (abstract)

13:20

Chiara Rezzoagli, Martina Arianna Archetti, Michael Baumgartner and Rolf Kümmerli

Treating pathogenic bacteria with combinations of antibiotics and anti-virulence compounds can revert selection for antibiotic resistance (abstract)

13:20

Martina Arianna Archetti, Chiara Rezzoagli and Rolf Kümmerli

Combinations of antibiotics and antivirulence compounds against Pseudomonas aeruginosa: efficacy, nature of drug-interactions and effect on antibiotic resistant clones (abstract)

13:20

Dhweeja Dasarathy and Barbara Natterson-Horowitz

Evolutionary Insights into Insomnia in Athletes: Using Systematic Review to Identify Natural Animal Models (abstract)

13:20

Adrian Williams and Lisa Hill

Lessons from Pellagra – Human evolution in reverse gear? (abstract)

13:20

Neil Isaacs

Functional anatomy of Gluteus Maximus(GM) regarding a change of direction(cod) related to performance and injuries (abstract)

13:20

Neil Isaacs

Evolution of bipedalism concurrently increasing capacity for pelvic rotation in the kinetic chain. (abstract)

13:20

Alexandru-Stefan Niculae

Anthropometric measurements in male children with ASD point to genomic imprinting imbalance (abstract)

13:20

Rumyana Stoyanova and Stanislava Harizanova

Burnout among nurses and correctional officers in Bulgaria: a comparative study (abstract)

13:20

Megan Zhao and Barbara Natterson-Horowitz

The Animal Origins of Human Bullying: A Systematic Review of the “Oddity Effect” Literature and the Identification of Naturally Occurring Models for Appearance-Based Bullying in Humans (abstract)

13:20

Nantawan Soonklang

Chemoreception in the Golden Apple Snail Pomacea canaliculata: Towards the development of snail-specific control methods and novel baiting strategies. (abstract)

13:20

Magdalena Klimek, Andrzej Galbarczyk, Ilona Nenko and Grazyna Jasienska

Facial fluctuating asymmetry: is it related to higher risk of cardiometabolic diseases? (abstract)

13:20

Sandrine Motamed

Health promotion, community-campus-local authorities partnership and a new health professional profile (abstract)

13:20

Nune Truzyan and Varduhi Petrosyan

Lack of education might trigger multi-drug-resistant tuberculosis development in Armenia: knowledge evolution (abstract)

13:20

Nuntiya Somparn, Arunee Jetsrisuparb and Veerapol Kukongviriyapan

Adaptive response against oxidative stress due to iron overload in beta-thalassemia/HbE patients (abstract)

13:20

Urarat Nanna, Linda Chularojanamontri and Seewaboon Sireeratawong

Effects of the Thumbergia laurifolia Lindl. Extract on Gastric Ulceration in Rats (abstract)

13:20

Chi-Chang Chang, Chalong Cheewakriangkrai and Yixiang Zhang

Media Health Literacy Plays Critical Role of Shared Decision Making: Mediating or Moderating? (abstract)

13:20

Michael Yafi

The evolution of adult diseases into pediatric population: Pediatric obesity and its consequences (abstract)

13:20

Murtala Dahiru

SYNERGISTIC EFFECTS OF CHAMOMILE AND LAVENDER ESSENTIAL OILS FOR ANTIBACTERIAL ACTIVITY (abstract)

13:20

Nitesh Pandey

Why we should be worried about pathogens with the “Killer move”? (abstract)

13:50-14:30 Session 10: Plenary Dan Lieberman

CHAIR: Barbara Natterson-Horowitz

LOCATION: Aula

13:50

Daniel Lieberman

Is Exercise Really Medicine? An Evolutionary Perspective. (abstract)

14:30-15:00Coffee Break

15:00-16:20 Session 11A: Microbiome

CHAIR: Hinrich Schulenburg

LOCATION: Aula

15:00

Shauni Doms, Hanna Fokt, Leslie Turner and John Baines

Elucidating the genetic basis of gut microbial trait evolution in the house mouse subspecies complex and its relevance to understanding human disease (abstract)

15:20

Hugo C. Barreto, Ana Sousa and Isabel Gordo

The Landscape of Adaptive Evolution of a gut commensal bacterium in Aging Mice (abstract)

15:40

Anke Kloock, Michael Bonsall and Kayla King

When to protect your master: Evolution of microbe-mediated protection in Caenorhabditis elegans (abstract)

16:00

Irina M Velsko, James A Fellows Yates, Franziska Aron, Richard W Hagan, Laurent A Frantz, Louise Loe, Juan Bautista Rodriguez Martinez, Eros Chavez, Chris Gosden, Greger Larson and Christina Warinner

Microbial differences between dental plaque and historic dental calculus are related to oral biofilm maturation stage (abstract)

15:00-16:20 Session 11B: Mixed session: cancer and methods

CHAIR: Charles Nunn

LOCATION: 217

15:00

Robert Noble, Katarina Bacevic, Michael Hochberg, Liliana Krasinska and Daniel Fisher

Spatial competition constrains resistance to targeted cancer therapy (abstract)

15:20

Michael Hochberg and Andrei Akhmetzhanov

"You can pay me now or pay me later": evolutionarily sensible approaches to preventing cancers (abstract)

15:40

Joseph W. Cauceglia, Derek L. Stark and Wayne K. Potts

The power of Organismal Performance Assays (OPAs) for detecting health declines due to any cause (abstract)

16:00

Daniel Taub

The Potential of Broad-Audience Peer-Reviewed Literature for Disseminating Knowledge in Evolutionary Medicine (abstract)

15:00-16:20 Session 11C: Symposium Paleopathology

CHAIR: Gillian Bentley

LOCATION: 204

15:00

Julia Gamble and Gillian Bentley

Palaeopathological Insights about the Developmental Origins of Health and Disease (DoHAD) (abstract)

15:20

Frank Rühli

Paleopathology and its impact on evolutionary medicine (abstract)

15:40

Ella Been, Kimberly Plomp and Leonid Kalichman

Erect posture, bipedalism and spinal health (abstract)

16:00

Elizabeth Uhl and Richard Thomas

Uncovering Tales of Transmission: An Integrated Paleopathological and Evolutionary Perspective on Shared Human and Animal Pathogens (abstract)

16:20-17:00 Session 12: Plenary Steve Frank

CHAIR: Michael Hochberg

LOCATION: Aula

16:20

Steven Frank

Mitochondria and male disease (abstract)

17:00-18:00 Session 13: Business meeting

CHAIR: Randolph Nesse

LOCATION: Aula

18:30-20:30 Chocolate Event

LOCATION: Mensa B

Thursday, August 15th

View this program: with abstractssession overviewtalk overview

08:30-09:30 Session 14: Keynote Bernard Crespi

CHAIR: Jacobus Boomsma

LOCATION: Aula

08:30

Bernard Crespi

How evolutionary biology can frame a unified theory for understanding human mental illness (abstract)

09:30-10:00Coffee Break

10:00-12:00 Session 15A: Life course

CHAIR: Gillian Bentley

LOCATION: Aula

10:00

Sean Byars, Steve Stearns and Koos Boomsma

Increased risk of digestive and genitourinary diseases but decreased risk of inflammatory bowel disease after childhood appendectomy: findings from a nationwide registry study (abstract)

10:20

Anna Grace Tribble

The Role of the UN Oil for Food Program in the Pathway between Fetal Malnutrition and Poor Adult Health among Iraqi Families (abstract)

10:40

Amara Finch

Developmental Origins of Health and Disease and Population Differences in Postnatal Growth Rates Among Premature Infants: Implications for Lifelong Health (abstract)

11:00

Paul Turke

It's Better to Give than to Receive--Unless You're Young (abstract)

11:20

Gillian Bentley, Ben Bar-Sade, Reinhard Stöger, Khurshida Begum, Richard Emes, Or Eden and Philippa Melamed

Childhood Development and Epigenetic Effects on Reproductive Function (abstract)

11:40

Luisa Rivera, Erik Ringen, Angela Narayan, William Harris and Alicia Lieberman

Prenatal PTSD is predicted by the interaction of hair cortisol, early life adversity, and current stress: implications for fetal programming (abstract)

10:00-12:00 Session 15B: Mixed session: adaptations

CHAIR: Elisabeth Uhl

LOCATION: 217

10:00

John Martin and Gunter Wagner

The Origins of Megakaryocytes, Platelets and Eutherian Placentation are Linked (abstract)

10:20

Sara Niedbalski

Novel genomic architectures for clinical traits evolved during the Beringian Standstill (abstract)

10:40

Stephen Corbett, Jin-Gun Cho and Evan Ullbricht

The Magic Mountain? Adaptations to altitude and susceptibility to Tuberculosis in Nepal and Tibet (abstract)

11:00

Randolph Nesse

Adjustable defense response thresholds are inherently vulnerable to positive feedback dysregulation (abstract)

11:20

Anne Lehner, Kaspar Staub, Lafi Aldakak, Patrick Eppenberger, Frank Rühli, Robert Martin and Nicole Bender

Fish consumption is associated with school performance in children in a non-linear fashion: results from the German cohort study KiGGS (abstract)

11:40

Virginia J. Vitzthum

The Fat of the Land: Is dietary fat a signal of environmental quality? Results from cross-populational studies of ovarian steroid concentrations. (abstract)

10:00-12:00 Session 15C: Symposium microbiome and neurologic disease risk

CHAIR: Molly Fox

LOCATION: 204

10:00

Joe Alcock

Microbiome as a Trojan Horse – how risky microbiomes influence brain and behavior (abstract)

10:20

Jeffrey Gassen and Sarah Hill

Kombucha and the immune system: Implications for psychology and behavior (abstract)

10:40

Gerard Clarke

What Lies Beneath: Microbiome-Gut-Brain Axis Dysregulation in Stress-related Disorders (abstract)

11:00

Molly Fox, Delaney Knorr and Kacey Haptonstall

Symbiotic microbiota and Alzheimer's Disease (abstract)

11:20

Elizabeth Mallott and Katherine Amato

Metabolic contributions of the gut microbiome to the brain (abstract)

12:00-13:00Lunch Break

13:00-13:30 Session 16: Poster session II

All posters are exhibited during the whole congress, not just the ones listed in the specific session list.

LOCATION: Patio

13:00

James Mcnary, Michelle Blyth, Arnold DeCano, Finn Schubert, Audrey Ranson and Jeanne Carey

A Retrospective Chart Review of Emergent Antibiotic Use (abstract)

13:00

Benjamin Auerbach and Elizabeth Agosto

The Evolution of the Shoulder as a Functional Trait Complex with the Skull and Vertebrae (abstract)

13:00

Shantha Karthigesu, David Coall and James Chisholm

Intergenerational influences on breastfeeding behaviour in Perth, Western Australia (abstract)

13:00

Sarai Keestra, Gul Deniz Salali and Victoria Male

Out of balance: evolutionary perspectives on the sex disparity in autoimmune disease (abstract)

13:00

Enrique Rayo, Giada Ferrari, Judith Neukamm and Verena Schuenemann

A novel non-destructive DNA extraction method for historical Ethanol-Fixed samples (abstract)

13:00

Caitlyn Placek and Kristen Syme

Choosing to fast rather than feast: Does behavioral immunity, signaling, or performance enhancement explain deliberate fasting in the ethnographic record? (abstract)

13:00

Carina Polzer, Jacqueline Moltzau Anderson and Florian Horn

‘Evolutionary medicine’ neglects the pre-clinical phase (abstract)

13:00

Basil Baccouche, Barbara Natterson-Horowitz and Nothirdauthor

Giraffe Myocardial Hypertrophy as an Evolved Adaptation and Natural Animal Model of Resistance to Diastolic Heart Failure in Humans. (abstract)

13:00

Devan Peterson and Barbara Natterson-Horowitz

Evolutionary and Comparative Insights Into Atherosclerosis: The Use of Systematic Review to Characterize the Phylogeny of Vulnerability to Atherosclerosis and to Generate Novel Non-Proximate Hypotheses for Atherogenesis and Vasculopathy. (abstract)

13:00

Neil Isaacs

The hip as the first link in the rotary kinetic chain evolving concurrently with bipedalism. (abstract)

13:00

Nicholas Cavanaugh and Barbara Natterson-Horowitz

Use of Taxonomical and Comparative Analyses to Generate Novel, Testable, and Non-Proximate Hypotheses for Osteosarcoma (abstract)

13:00

Gülfirde Akgül, Giada Ferrari and Verena Schuenemann

Using Museum Wet Specimens to analyze past pathogen genomes (abstract)

13:00

Judith Neukamm, Saskia Pfrengle, Martyna Molak, Alexander Seitz, Michael Francken, Partick Eppenberger, Charlotte Avanzi, Ella Reiter, Christian Urban, Beatrix Welte, Barbera Teßmann, Alexander Herbig, Katerina Harvati, Kay Nieselt, Johannes Krause and Verena J. Schuenemann

2,000-year-old pathogen genomes reconstructed from mummies provide insights into the state of health of ancient Egyptians. (abstract)

13:00

Keith Mintzer

U.S. National Institutes of Health (NIH) staffer answers questions about how the NIH supports medical research (abstract)

13:00

Jian Han, Anuoluwapo Odelade and Joseph Graves

Expressions of iron-responsive and oxidative stress genes in iron-resistant Escherichia coli (abstract)

13:00

Christian Urban, Jakub Kubacki, Jean-Michel Hatt, Claudia Bachofen and Verena J Schuenemann

Towards the understanding of zoonotic events in infectious diseases: Tracing animal reservoirs in Switzerland (abstract)

13:00

Kristen Syme and Edward Hagen

An Anthropological and Evolutionary Critique of the Psychiatric Paradigm (abstract)

13:00

Alvaro Daschner, José-Luis Gómez Pérez and María-José Trujillo Tiebas

Necessary pluridisciplinarity in an Evolutionary Medicine Platform: our 10-year experience in Spain (abstract)

13:00

Danielle Katz and Barbara Natterson-Horowitz

The Phylogeny of Atrial Fibrillation(AF): The Power of Comparative Arrhythmology to Generate Novel Hypotheses on the Origin of Vulnerability to AF (abstract)

13:30-14:30 Session 17: Keynote Dario Riccardo Valenzano

CHAIR: Steven Austad

LOCATION: Aula

13:30

Dario Riccardo Valenzano

African killifishes shed light on the genomic basis of life history trait evolution in vertebrates (abstract)

14:30-15:00Coffee Break

15:00-17:00 Session 18A: Life history

CHAIR: Alejandra Nunez de la Mora

LOCATION: Aula

15:00

Melissa E. Thompson, Zarin P. Machanda, Alexandra Rosati, Martin Muller and Richard Wrangham

Do shorter lifespans in chimpanzees mean that they age less well than humans? (abstract)

15:20

Carina C. Kern, Hannah Morley and David Gems

A putative lactation reactivation syndrome triggered by menopause causing senescent multi-morbidity (abstract)

15:40

Alejandra Nunez de la Mora, Rosa Lilia Castillo-López, Diana Donaji del-Callejo-Canal, Margarita Edith Canal-Martinez and Maria Luisa Marvan

Inequalities, double burden of malnutrition and decline in age at menarche in 20th century Mexico: an evolutionary perspective (abstract)

16:00

Grazyna Jasienska

Life history perspective – the necessary tool for understanding energetic supplementation of women (abstract)

16:20

Erik Ringen, Adrian Jaeggi and Craig Hadley

Wealth, culture, fertility, and bargaining power: assessing competing theories of intimate partner violence in a large cross-national sample (abstract)

16:40

David Coall, Sonja Hilbrand, Ruth Marquis, Liz Wenden, Katrina Stratton, Denis Gerstorf and Ralph Hertwig

The costs and benefits of grandparental investment for grandparents’ health (abstract)

15:00-17:00 Session 18B: Immunology

CHAIR: Joachim Kurtz

LOCATION: 217

15:00

Joachim Kurtz, Robert Peuss, Kevin Ferro, Wentao Yang, Philip Rosenstiel and Hinrich Schulenburg

Evolution of alternative forms of immune memory (abstract)

15:20

India Schneider-Crease, Randi H. Griffin, Megan A. Gomery, Thore J. Bergman and Jacinta C. Beehner

Evidence for parasitism as a cause of mortality in a wild primate (abstract)

15:40

Magdalena Migalska, Alvaro Sebastian and Jacek Radwan

Evolution of the number of MHC genes: testing the TCR depletion hypothesis (abstract)

16:00

Mate Manczinger and Csaba Pal

Pathogen diversity and generalist human MHC alleles (abstract)

16:20

Lafi Aldakak, Matthias Galipaud, Nicole Bender, Hanna Kokko and Frank Rühli

To Attack or Not to Attack: the evolution of immune defences and autoimmune diseases under precision tradeoffs (abstract)

16:40

Robert Peuß

How decreased biodiversity impacts the immune system: Approaching “Old Friends” with the cavefish, Astyanax mexicanus (abstract)

15:00-17:00 Session 18C: Teaching Workshop

CHAIR: Jay Labov

LOCATION: 204

15:00

Jay Labov

Using Research about How People Learn and Effective Pedagogy as Guides for Developing Education Resources for Evolutionary Medicine (abstract)

15:20

Daniel Grunspan, Randolph Nesse and Sara Brownell

The need for a learning framework for education about evolution and medicine (abstract)

15:40

Michael Poulsen

How to teach evolutionary medicine effectively at European Universities (abstract)

17:00-18:00 Session 19: EMPH editorial board meeting

CHAIR: Charles Nunn

LOCATION: 220

18:00-21:00 Congress Dinner Swiss Fondue

LOCATION: Mensa B

Friday, August 16th

View this program: with abstractssession overviewtalk overview

08:30-09:30 Session 20: Keynote Verena Schünemann

CHAIR: Anne Stone

LOCATION: Aula

08:30

Verena J. Schuenemann

Ancient DNA and pathogens: uncovering the past of human diseases (abstract)

09:30-10:00Coffee Break

10:00-12:00 Session 21A: Infectious diseases

CHAIR: Sylvia Cremer

LOCATION: Aula

10:00

Selina Niggli and Rolf Kümmerli

Ecology and mechanisms of interspecies interactions between Pseudomonas aeruginosa and Staphylococcus aureus (abstract)

10:20

Hélène Chabas, Sébastien Lion, Antoine Nicot, Sean Meaden, Stineke van Houte, Sylvain Moineau, Lindi Wahl, Edze Westra and Sylvain Gandon

Evolutionary emergence of infectious diseases in heterogeneous host populations (abstract)

10:40

Michelle Blyth, James Mcnary, Finn Schubert, Audrey Renson and Jeanne Carey

Evolutionary Predictions and Understanding of Sepsis (abstract)

11:00

Sylvia Cremer

Sociality affects disease epidemiology and pathogen evolution (abstract)

11:20

Saskia Pfrengle, Judith Neukamm, Sarah Inskip, Rezeda I. Tukhbatova, Ella Reiter, Nataliya Berezina, Alexandra P. Buzhilova, Stian Suppersberger Hamre, Vítor Matos, Maria Teresa Ferreira, Johannes Krause and Verena J. Schuenemann

Reconstruction of new ancient Mycobacterium leprae genomes from Europe (abstract)

11:40

Adele Crane, Kelly Blevins, Christopher Lum, Keolu Fox and Anne Stone

M. leprae genome variation in the Pacific (abstract)

10:00-11:00 Session 21B: Symposium Pregnancy and Birth

CHAIR: Kenneth Buetow

LOCATION: 204

10:00

Angela Garcia, Heini Natri, Benjamin Trumble, Melissa Wilson and Kenneth Buetow

Evolved immune compensation due to pregnancy underlies sex differences in human diseases (abstract)

10:20

Neerja Karnani

Human variation and health adversities: Insights from a modern birth cohort study (abstract)

10:40

Kleber Jessivaldo Gomes Das Chagas, Marco Antonio Barbieri, Viviane C Cardoso, Heloisa Bettiol and Alexandre Ferraro

AN EVOLUTIONARY VIEW TO CESAREAN DELIVERY LATE CONSEQUENCES (abstract)

10:00-12:00 Session 21C: Symposium One Health

CHAIR: Nicole Bender

LOCATION: 217

10:00

Stephan Schuster

Microbiomes of air, surfaces and dust as indicators of human health (abstract)

10:20

Jakob Zinsstag

What is One Health? (abstract)

10:40

Jean-Michel Hatt and Verena J Schuenemann

Understanding the effect of urbanization of wildlife on health status, epidemiology and public health considerations (abstract)

11:00

Barbara Natterson-Horowitz

Evolved Adaption and Natural Animal Models of Disease Vulnerability (abstract)

11:20

Elizabeth Uhl

One Health: A Veterinary Perspective on the Integration of Human and Animal Medicine Through Evolution. (abstract)

11:00-12:00 Session 22: Symposium The Normal and The Pathological

CHAIR: Paul Griffiths

LOCATION: 204

11:00

Maël Lemoine

Towards a model of age-related diseases (abstract)

11:20

Elselijn Kingma

Why medical dysfunction is (still) not selected effects dysfunction (abstract)

11:40

Paul Griffiths

Disease and Evolution (abstract)

12:00-13:00Lunch Break

13:00-13:30 Session 23: Poster session III

All posters are exhibited during the whole congress, not just the ones listed in the specific session list.

LOCATION: Patio

13:00

Alberto Vicens and David Posada

Ancient and recent selection on human cancer genes (abstract)

13:00

Paul Kubelac, Catalin Vlad, Ioana Berindan-Neagoe, Alexandru Irimie and Patriciu Achimaş-Cadariu

OVARIAN CANCER AS A MODEL FOR UNDERSTANDING TUMOR EVOLUTION IN SOLID MALIGNANCIES (abstract)

13:00

Yuping Yang, Ruth Mace and Megan Arnot

The evolutionary ecology of menopause symptoms (abstract)

13:00

H Neitzel, R Varon, S Chughtai, P Nürnberg, M Schweiger, D Horn, M Digweed, B Schulze and K Sperling

Mutations of the master regulator of centriole formation PLK4 cause primary microcephaly and severe transmission ratio distortion (abstract)

13:00

David Laloum and Marc Robinson-Rechavi

Evolutionary conservation of rhythmic gene expression (abstract)

13:00

R. Brooks Robey

Adaptive Metabolic Fitness in Cancer Selection (abstract)

13:00

Ana Clara Cruz Nadim and Alexandre Archanjo Ferraro

Sexual dimorphisms in response to pre-natal violence in humans: an evolutionary perspective (abstract)

13:00

Lynnette Sievert

The evolution of menopause and post-reproductive life: a phylogenetic perspective (abstract)

13:00

Martin Haeusler, Sabine Landis, Bernhard Zipfel, Viktoria Krenn and Cinzia Fornai

Evidence for adaptation to malaria in the human ancestor Australopithecus africanus, 2.6 million years ago (abstract)

13:00

Cinzia Fornai, Előd Úry, Daniele Togni, Michael Kundi and Eva Piehslinger

Evidence-based relationship of occlusion and temporomandibular disorders (abstract)

13:00

Nicole M. Webb, Falk Mazelis and Martin Haeusler

New Insights Into Caesarean Section Risk Prediction Using Machine Learning (abstract)

13:00

Karolina Milkowska, Andrzej Galbarczyk and Grażyna Jasieńska

Does meat consumption change across menstrual cycle? (abstract)

13:00

Vitor Matos, Carina Marques, Daniela Pacheco and Ana Luísa Santos

Co-infection or cross-immunity? New palaeopathological evidence for two debated hypotheses regarding the co-evolution of leprosy and pulmonary tuberculosis (abstract)

13:00

Bethany Usher

The evolution of courses in evolutionary medicine (abstract)

13:00

Patricia Brito

Evolution of chaperon-usher pili in Escherichia coli (abstract)

13:00

Andrzej Galbarczyk, Magdalena Klimek, Ilona Nenko and Grazyna Jasienska

Number of sons and inflammaging among postmenopausal women (abstract)

13:00

Francy Johanna Pérez Llanos, Doreen Beyer, Stefan Niemann and Susanne Homolka

Impact of host -pathogen mismatch in tuberculosis infections: Insights from a new infection model employing M. africanum and bovine macrophages (abstract)

13:00

Peter Takacs and Joshua Christie

Selected Effects Accounts of Dysfunction (abstract)

13:00

Bria Dunham and Sara Hall

Robot Placentas in the Simulation Lab: The Shortcomings of Maternity Simulation Manikins in the Education of Advanced Practice Nursing Students (abstract)

13:00

Stanislav Kotlyarov and Aleksei Bulgakov

Cholesterol regulation of innate immune system and its disorders due to smoking (abstract)

13:00

Julia Kloos, João Gama, Joachim Hegstad, Ørjan Samuelsen and Pål Johnsen

Evolution towards reduced burden of clinical antibiotic resistance plasmids (abstract)

13:30-14:00 Session 24: G.C Williams Prize winner Jessica Marie Hoffman

CHAIR: Randolph Nesse

LOCATION: Aula

13:30

Jessica Hoffman

Is antagonistic pleiotropy ubiquitous in aging biology? (abstract)

14:00-14:30 Session 25: Gilbert Omenn Prize winner Roderich Römhild

CHAIR: Isabel Gordo

LOCATION: Aula

14:00

Roderich Römhild

Hysteresis treatments: Exploiting cellular memory to prevent resistance evolution (abstract)

14:30-15:00 Session 26: Plenary Detlev Ganten

CHAIR: Frank Rühli

LOCATION: Aula

14:30

Detlev Ganten

Lessons learned from Evolution for the Implementation of the Sustainable Development Goals and Better Health for All (abstract)

15:00-15:15 Session 27: Closing notes

CHAIR: Randolph Nesse

LOCATION: Aula

15:30-17:00 Session 28: Cancelled--ISEMPH Executive Committee Meeting--Cancelled (no need for this meeting now)

CHAIR: Randolph Nesse

LOCATION: 203

16:00-17:00 Wax Moulages Museum guided tour

Please register on site at the registration desk. Places are limited.

18:00-22:00 Farewell Dinner University Tower

21:00-23:00 City night tour

There will be two groups, one starting at 20.45, one starting at 21.45