

Program

Friday, 18 August

Time	Title	Speaker	Room
10.00-11.00	Meeting committee meeting		
11.00-12.00	Publications committee meeting		
12.00-14.00	Education committee meeting		
14.00-16.00	Directors meeting & students meeting		
16.00-16.30	Official opening by the Dean of the medical	Joëls, Marian	Blue Room
	school		
16.30-17.15	Keynote 1: Adaptation to critical illness – a	Singer, Mervyn	Blue room
	conserved approach that is increasingly		
	appreciated		
17.15-18.00	Keynote 2: Maternal capital and the inter-	Wells, Jonathan	Blue room
	generational transmission of health and disease		
18.00-19.30	Evening reception & walking dinner		Fountainpatio
19.30-21.00	Program committee meeting		_

Saturday, 19 August

Time	Title	Speaker	Room
08.00-09.00	Coffee and registration		Fountainpatio
09.00-09.45	Keynote 3: Social immunity: protecting the	Cremer,	Blue room
	colony against disease	Sylvia	
09.45-10.00	Change rooms		

Session 1: Immune system

Time	Title	Speaker	Room
10.00-10.15	Evolution of human immunity during last several	Morozova,	Blue room
	millennia	Irina	
10.15-10.30	Immune priming decreases resistance to early-	Armitage,	Blue room
	stage pathogenic infection	Sophie	
10.30-10.45	Are autoimmune diseases and the origin of the	Catania,	Blue room
	adaptive immune system linked?	Francesco	
10.45-11.00	Are seasonal and multiannual infectious disease	Briga,	Blue room
	dynamics determined by human aggregation? A	Michael	
	long-term study in historical Finns		

Session 2: Women's health

Time	Title	Speaker	Room
10.00-10.15	To wean or not to wean? Extended breastfeeding	Núñez-de la	Red room
	and infant growth in a deprived and food-	Mora,	
	insecure agricultural setting	Alejandra	
10.15-10.30	Can premenstrual symptoms be used as a cue to	Alvergne,	Red room
	an undiagnosed infection? Insights from digital	Alexandra	
	health		
10.30-10.45	Cumulative health risks of preeclampsia exposure	Hollegaard,	Red room
	in the womb are consistent with an evolutionary	Birgitte	
	interpretation of the etiology of the disorder		
10.45-11.00	The Polycystic Ovary Syndrome and the Flexible	Corbett,	Red room
	Response Model of Human Reproduction	Stephen	

11.00-11.45 Coffee break & Posters Fountainpatio
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Session 3: Metabolic and cardiovascular diseases

Time	Title	Speaker	Room
11.45-12.00	Mechanistic models of metabolic diseases, help	Nijhout, H.	Blue room
	explain why disease genes are maintained in populations	Frederik	
12.00-12.15	The French or Mediterranean Paradox and Life History Evolution	Corbett, Stephen	Blue room
12.15-12.30	Milder forms of obesity may be a good evolutionary adaptation: 'Fitness First' hypothesis'	Parakadavathu, Rakesh	Blue room
12.30-12.45	Evolutionary Medicine: Loss-of-function mutation in Proprotein Convertase Subtilisin/Kexin 9 (PCSK9) in archaic humans and its relevance for cardiovascular diseases and hypercholesterolemia	Prost, Stefan	Blue room
12.45-13.00	The Hypertension Pandemic: an Evolutionary Perspective	Rossier	Blue room

Session 4: Culture, gender and sexual health

Time	Title	Speaker	Room
11.45-12.00	Benefits and challenges of applying evolutionary	Veldhuis,	Red room
	medicine across cultures	Djuke	
12.00-12.15	Care as Human Condition - An Evolutionary	Steinkopf,	Red room
	Psychology of Sickness and Healing	Leander	
12.15-12.30	Gender-specific Inequality in pre- and early	Koepke,	Red room
	historic Europe	Nikola	
12.30-12.45	Natural selection, mismatch, and differences in	Auerbach,	Red room
	female human true pelvis morphology with	Benjamin	
	respect to age		
12.45-13.00	Sex, age, and reproduction: tooth loss among the	Schwartz,	Red room
	Tsimané in lowland Bolivia	Matthew	

13.00-14.00	Lunch and outreach committee meeting		Fountainpatio & round room
14.00-14.45	Keynote 4: The evolution of sex-specific virulence in infectious diseases	Ubeda, Francisco	Blue room
14.45-15.00	Change rooms		
15.00-16.00	workshop: how to write Clinical Briefs for the journal	Bentley, Gillian & Nunn, Charles	Round room
15.00-16.00	Round table: teaching evolutionary medicine		Red room
16.00-16.45	Coffee break & Posters	_	

Session 5: Pathogens

Time	Title	Speaker	Room
16.45-17.00	Evolutionary tradeoff theory of virulence and	Pandey	Blue room
	vector borne diseases		
17.00-17.15	Ancient Mycobacterium tuberculosis complex	Stone, Anne	Blue room
	genomes from the Americas		
17.15-17.30	Parasitism increases mortality in a wild primate	Schneider-	Blue room
		Crease,	
		India	
17.30-17.45	Evolution of iron resistance in Escherichia coli	Ewunkem,	Blue room
		Jude	
17.45-18.00	Optimal virulence in a macroparasite, the	Scharsack,	Blue room
	cestode Schistocephalus solidus in its specific	Joern	
	intermediate host, the three-spined stickleback		
	Gasterosteus aculeatus		

Session 6: Cognition and aging

Time	Title	Speaker	Room
16.45-17.00	The influence of omega-3 fatty acids on the	Bender,	Red room
	development of human cognition: systematic	Nicole	
	review and meta-analysis		
17.00-17.15	Evolving a New Neuropsychiatry	Fricchione,	Red room
		Gregory	
17.15-17.30	Fitness-Reducing Cis- and Retrograde Trans-	Greenspan,	Red room
	Generational Extended Phenotypes in	Neil	
	Association with Autism		
17.30-17.45	The genomic basis of experimental evolution of	Hoedjes,	Red room
	aging in Drosophila: how individual SNPs affect	Katja	
	lifespan		
17.45-18.00	Intercellular Competition and the Inevitability of	Nelson,	Red room
	Multicellular Aging	Paul	

18.00-19.00	talks by Omenn and Williams prize winners	Blue room
19.00-20.00	ISEMPH Council Meeting meeting/dinner	
19.00-	Conference delegates: Noorderzon Festival	downtown

Sunday, 20 August

08.00-09.00	Coffee and registration		Fountainpatio
09.00-09.45	Keynote 5: (microbiome)	Bork, Peer	Blue room
09.45-10.00	Change rooms		

Session 7: Cancer

Time	Title	Speaker	Room
10.00-10.15	Is cancer a side effect of evolution?	Konstantinos,	Blue room
	Epidemiological and other evidence	Voskarides	
10.15-10.30	Evolutionary Game Theory of Cancer: Harnessing	Archetti,	Blue room
	Clonal Selection to Impair Intra-Tumor	Marco	
	Cooperation		
10.30-10.45	The Evolution of Cancer Suppression: Solutions	Tollis, Marc	Blue room
	to Peto's Paradox Revealed by Genomic Analyses		
	of Elephants and Whales		
10.45-11.00	PISCA: a new phylogenetic method for the	Mallo, Diego	Blue room
	reconstruction of somatic evolution using		
	somatic chromosomal alteration data		

Session 8: Antibiotic resistance

Time	Title	Speaker	Room
10.00-10.15	Resistance selection on non-target bacterial	Kinnear,	Red room
	populations	Clare	
10.15-10.30	Antibiotic combination efficacy (ACE) network	Barbosa	Red room
10.30-10.45	NOD2 influences intestinal resilience and fungal	Moltzau	Red room
	signatures after antibiotic perturbation	Anderson,	
		Jacqueline	
10.45-11.00	Phage therapy can restrain antibiotic bloom of	Mikonranta,	Red room
	multiresistant gut bacteria	Lauri	

11.00-11.45 Coffee break & Posters Fountainpatio
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Session 9: Theoretical considerations and animal models

Time	Title	Speaker	Room
11.45-12.00	Humans as Niche Modifiers: embedding	Hanson,	Blue room
	'mismatch' within broader evolutionary theory	Mark	
12.00-12.15	Behavioural deficiencies: the missing link in our	Watve	Blue room
	understanding of complex disorders		
12.15-12.30	Identifying Evolutionary Medicine Core Principles	Grunspan	Blue room
12.30-12.45	Adding Evolution to Comparative Pathology:	Uhl,	Blue room
	Investigating the Unanswered Questions	Elizabeth	
12.45-13.00	Mouse models of human disease: An	Perlman,	Blue room
	evolutionary perspective	Robert	

Session 10: Microbiome

Time	Title	Speaker	Room
11.45-12.00	The microbiome and host resilience	Alcock, Joe	Red room
12.00-12.15	In utero sensitization and induction of tolerance	Blackwell,	Red room
	to parasite antigens: Is transplacental	Aaron	
	immunization a mechanism for the inheritance of		
	immunological strategies?		
12.15-12.30	Commensal and pathogenic microbiota and	Ozga,	Red room
	viruses from the oral cavity of deceased Gombe	Andrew	
	chimpanzees		
12.30-12.45	Host genetic variation at B4gaInt2 influences	Baines, John	Red room
	intestinal microbial ecology and susceptibility to		
	enteric pathogens in house mice		
12.45-13.00	Improved detection of gene-microbe interactions	Belheouane,	Red room
	in the mouse skin microbiota using high-	Meriem	
	resolution QTL mapping of 16S rRNA transcripts		

13.00-14.00	Lunch	Fountainpatio
14.00-15.00	Annual ISEMPH Meeting - Meeting of the whole	Blue room

Session 11: Different topics

Time	Title	Speaker	Room
15.00-15.15	An evolutionary perspective on back problems	Haeusler,	Blue room
		Martin	
15.15-15.30	Identyfing genomic adaptations to rice-based	Sazzini,	Blue room
	diet in asian populations	Marco	
15.30-15.45	Evolutionary nephrology: changing vulnerability	Chevalier	Blue room
	of the kidney from birth to senescence		

Session 12: Theoretical considerations and methodology

Time	Title	Speaker	Room
15.00-15.15	Investigating Human Uniqueness in Relation to	Nunn,	Red room
	Health and Disease Using Phylogenetic Methods	Charles	
15.15-15.30	Cliff-edge fitness functions and disease	Nesse,	Red room
	vulnerability	Randolph	
15.30-15.45	Meta-analyses of variation: applications in	Nakagawa,	Red room
	evolutionary medicine and beyond	Shinichi	

Session 13: Genetics

Time	Title	Speaker	Room
15.45-16.00	A FORMAL MODEL OF CLONAL EXPANSION IN	Ledda, Alice	Blue room
	BACTERIAL POPULATION GENETICS		
16.00-16.15	Strong selection for African ancestry on	Pierron,	Blue room
	chromosome 1 in the admixed population of	Denis	
	Madagascar		
16.15-16.30	Negative selection in humans and fruit flies	Sohail,	Blue room

involves synergistic epistasis	Mashaal
involves synergistic epistasis	IVIASIIAAI

Time	Title	Speaker	Room
15.45-16.30	Round table on future of evolutionary medicine		Round room

From here onwards the ESEB program applies.