

Draft Programme

XXIII Congress of the International Society for Human Ethology



Monday 1st to Friday 5th August 2016
University of Stirling, Scotland

Programme at a Glance

	Mon 1 August	Tues 2 August	Wed 3 August	Thur 4 August	Fri 5 August	
9.00		Coffee	Coffee	Coffee	Coffee	
		Plenary II: David Perrett	Plenary II: Malinda Carpenter	Plenary III: Benoist Schaal	Plenary IV: Robin Dunbar	
9.20						
10.20		Coffee	Coffee	Coffee	Coffee	
10.50		Cooperation & Symposium I (Faces)	Attractiveness I & Symposium II (Developmental approaches)	Social Cognition I & Attractiveness II	Social Cognition II & Roots of human nature	
11.10						
11.30						
11.50						
12.10						
12.30		Lunch	Lunch	Lunch		
12.50				Lunch		
14.00	Officer's Meeting	Competition I & Mate Choice	Competition II & Vocal Perception	Social afternoon at Stirling Castle	Competition III & Applications and Healthy Behaviour	
14.20						
14.40						
15.00						
15.20		Tea	Tea			Tea
15.50	Registration	Poster session	Romantic Relationships & Environmental influence on behaviour		General Assembly 15.45-17.00	
16.10						
16.30						
16.50						
17.10						
17.30						
18.00	Wine reception	Eat in Bridge of Allan	Lochside Buffet Dinner	Eat in Stirling	Banquet & Ceilidh at Stirling Court Hotel	
19.00	Opening Ceremony & Plenary I: Nancy Segal					Mini Highland Games & Whisky tasking
20.30	Dinner Highland dancing display					
until 01.00	Late Bar at Oscars	Late Bar at MacRobert	Late Bar at MacRobert			

Saturday 6th August

Post conference trip to Trossachs National Park: Callander including Loch Katrine and Ben An

Monday 1st August

16.00 – 18.00h	
Registration	Crush Hall, Pathfoot Building
18.00 – 19.00h	
Wine Reception	Crush Hall, Pathfoot Building
19.00 – 19.20h	
Opening Ceremony	Pathfoot Lecture Theatre
Plenary Pathfoot Lecture Theatre	
Nancy Segal Twin Research Meets Ethology and Evolutionary Psychology	19.20 – 20.20h <i>Chair: Tom Alley</i>
20.30 – 01.00h	
Dinner, with Highland Dancing and Late Bar	Pathfoot Eatery and Oscars

Tuesday 2nd August

08.30	
Registration opens	Crush Hall

0900 – 09.20	
Coffee	Crush Hall

Plenary Pathfoot Lecture Theatre	
David Perrett In Good Shape and Colour: Cues Affecting Facial Attractiveness	09.20 – 10.20 <i>Chair: Ian Stephen</i>

10.20 – 10.50	
Coffee	Crush Hall

Symposium: Evolution and Human Face Perception <i>Pathfoot Lecture Theatre</i> <i>Chair: Anthony Little</i>		Cooperation <i>Wallace Room</i> <i>Chair: Moritz Köster</i>
Anthony Little Variable voting: Exposure to different environmental cues influences hypothetical voting decisions based on facial cues	10.50	Moritz Köster Cognitive and motivational underpinnings of early helping behavior (SFA)
Amanda Hahn Hormonal and personality correlates of women's responses to infant facial cues	11.10	Amy Munro-Faure Human cooperation: observations and experiments on games in the wild (SFA)
Sean Talamas Eyelid-Openness and Mouth Curvature Influence Perceived Intelligence Beyond Attractiveness (SFA)	11.30	Elena Zwirner Does city living shape our pro-social tendency? (SFA)
Martha Lucia Borrás Domestic violence lowers masculinity preference in Colombian women (SFA)	11.50	Eveline Seghers Joint observation of visual arts facilitates within-group cooperation
Michal Kandrik The relationship between men's hormones and facial appearance (SFA)	12.10	Arnaud Tognetti Are cooperative men showing off? Contributions to a public good are larger under sexual competition

12.30 – 14.00	
Lunch	Pathfoot Eatery and Oscars

Competition I		Mate Choice
<i>Pathfoot Lecture Theatre</i>		<i>Wallace Room</i>
<i>Chair: Maryanne Fisher</i>		<i>Chair: Tamas David-Barrett</i>
Martin Sharp Female Status, Gaze Behaviour and Menstrual Phase	14.00	Edward Morrison I know what I like...or do I? Illusory preference in mate choice
Martin Aranguren A pilot study in the Paris metro on the (nonverbal) discrimination of the Roma	14.20	Petr Tureček Complementarity or Homogamy? Positive assortative mating in sibling constellations (SFA)
Daniel Kruger Divided loyalties: Assessing coalitional behaviors in an American college football rivalry	14.40	Rick O’Gorman The Westermarck effect: Measuring incest aversion by pupil dilation
Maryanne Fisher Explorations into Competitive Mothering	15.00	Tamas David-Barrett Network effects in human mate choice

15.20 – 18.00	
Tea	Crush Hall 15.20 – 15.40
Posters and wine	Crush Hall 15.40 – 18.00

Evening	
Foraging in Groups	Suggested venues in Bridge of Allan

Wednesday 3rd August

09.00 – 09.20	
Coffee and Pastries	Crush Hall

Plenary Pathfoot Lecture Theatre	
Malinda Carpenter Social affiliation and alignment with others in infancy and early childhood	09.20 – 10.20 <i>Chair: Amanda Hahn</i>

10.20 – 10.50	
Coffee	Crush Hall

Symposium: Developmental approaches to understanding human social learning <i>Pathfoot Lecture Theatre</i> <i>Chair: Christine Caldwell</i>		Attractiveness I <i>Wallace Room</i> <i>Chair: Karel Kleisner</i>
Eoin O'Sullivan Automatic imitation effects are influenced by experience of synchronous action in children	10.50	Agata Groyecka Relationship between breast shape (ptosis) and the perception of woman's attractiveness and age. Evidence from Poland and Papua (SFA)
Eva Reindl Human children spontaneously invent great ape tool-use behaviours (SFA)	11.10	Jan Havlíček Men's preferences for women's breast size and shape in four cultures
Elizabeth Renner Do children and orangutans learn differently in individual, social, and "ghost" conditions?	11.30	Agnieszka Żelaźniewicz Breast size in pregnancy and a woman's breastmilk composition and volume
Joshua March Faithful imitation is based on different mechanisms throughout childhood (SFA)	11.50	Lynda Boothroyd Male facial appearance and offspring mortality in two traditional societies.
Emily Messer The role of social experience on young children's donating behaviour	12.10	Karel Kleisner African and European perception of African female attractiveness

12.30 – 14.00	
Lunch	Pathfoot Eatery and Oscars

Competition II		Vocal Perception
<i>Pathfoot Lecture Theatre</i>		<i>Wallace Room</i>
<i>Chair: Marc Mehu</i>		<i>Chair: Tamsin Saxton</i>
Jakub Binter Hormonal and behavioral changes in young adult heterosexual men during competition for a female partner: hormonal and behavioral analyses (SFA)	14.00	Tamsin Saxton A lover or a fighter? Opposing sexual selection pressures on men's vocal pitch and facial hair
Viktoría Mileva Sex differences in the perceived dominance and prestige of women with and without cosmetics (SFA)	14.20	Juan David Leongómez Perceived differences in social status between speaker and listener affect the speaker's vocal characteristics
Daniel Redhead The Dyadic effects of Prestige and Dominance within Social Networks: A longitudinal study of social status in the classroom (SFA)	14.40	Katarzyna Pisanski Changes in voice pitch across a lifetime: a longitudinal within-individual study
Marc Mehu Testosterone, dominance, and communicative behavior in face-to-face dyadic negotiations	15.00	Irena Pavela Vocal changes across the menstrual cycle: Are we there yet? (SFA)

15.20 – 15.50

Tea

Crush Hall

Romantic Relationships		Environmental influence on behaviour
<i>Pathfoot Lecture Theatre</i>		<i>Wallace Room</i>
<i>Chair: Ana Maria Fernandez</i>		<i>Chair: Thomas Pollet</i>
Ana Maria Fernandez The reciprocal nature of romantic relationship	15.50	Jiřina Bouřová Tell me baby, does your heart beat faster? Autonomic Response in Newborns to Relatively Strong and Mild Trigeminal Odorants (SFA)
Piotr Sorokowski Meaning of love - a study among hunter-gatherers	16.10	Jim Swaffield Assessing the relative impact of physical safety, social support and poor economic conditions on food preference (SFA)
Tara DeLecce Psychological Sperm Competition Mechanisms and the Moderating Effect of Romantic Attachment Style (SFA)	16.30	Michał Misiak Prenatal exposure to sex hormones predicts gratitude intervention use. Examination of digit ratio, motivational beliefs, and online activities (SFA)
Denisa Průřová Manipulative strategies in conflict interactions: The privilege of low powered	16.50	Jean-Luc Jucker Television consumption is the strongest predictor of female body size ideals in

submissive romantic partners? (SFA)		populations recently exposed to the media
Naomi Muggleton Unrestricted sexuality promotes greater distinction in women's short- and long-term mate preferences (SFA)	17.10	Cristina Acedo Carmona Culture or trust as human tools to face environmental changes? The Vyegwa-Gika Pygmies from Burundi

18.30 - late	
Buffet Dinner	Haldanes and Loch-side
Mini Highland Games & Whisky tasting	

Thursday 4th August

09.00 – 09.20	
Coffee and Pastries	Crush Hall

Plenary Pathfoot Lecture Theatre	
Benoist Schaal Coevolutionary adjustment of olfactory communication between mammalian – including human – females and their neonates	09.20 – 10.20 Chair: Jan Havlíček

10.20 – 10.50	
Coffee	Crush Hall

Social Cognition I <i>Pathfoot Lecture Theatre</i> <i>Chair: Agnieszka Sorokowska</i>		Attractiveness II <i>Wallace Room</i> <i>Chair: Michal Kandrik</i>
Anna Oleszkiewicz Voice-based assessments of trustworthiness, competence and warmth in blind and sighted adults (SFA)	10.50	Ian Stephen The body and the beautiful: Health, attractiveness and body composition in men's and women's bodies
Niklas Dworazik It's not too much about the „Who“ but rather about the „How“. Early parental investment in two cultural contexts (SFA)	11.10	Anthony Lee Facial averageness and genetic quality: testing heritability, genetic correlation with attractiveness, and the paternal age effect.
Caroline Allen Perfumers' perceptions of body odours: Towards a new scale for odour description (SFA)	11.30	Jitka Lindová Blinded by attractiveness? Dance and gait provide numerous reliable cues to female personality, but raters fail to use them accurately
Hermann Prossinger Comparing assessments of facial features by participants using various continuous slider scores	11.50	Barbara Borkowska Men's attractiveness and health – declared health versus real immune status (SFA)
Agnieszka Sorokowska Olfactory performance in 84 early-blind and late-blind individuals	12.10	Colin Hendrie Women's manipulation of ornament display intensity is situation dependent

12.30 – 14.00	
Lunch	Pathfoot Eatery and Oscars

14.00 – late	
Social programme	Visit to Stirling Castle
Foraging in groups II	Suggested locations in Stirling

Friday 5th August

09.00 – 09.20

Coffee and Pastries

Crush Hall

Plenary

Pathfoot Lecture Theatre

Robin Dunbar

What's so social about primate sociality -- and why humans are so different

09.20 – 10.20

Chair: Craig Roberts

10.20 – 10.50

Coffee

Crush Hall

Roots of Human Nature

Pathfoot Lecture Theatre

Chair: Wulf Schiefenhövel

Social Cognition II

Wallace Room

Chair: Elisabeth Oberzaucher

Marian Vanhaeren

Dead things, living people: On the interface between ethnology and archaeology

10.50

David Moulds

Exploring the dynamic relationship between emotion and referential communication (SFA)

Trevor Case

The animal origins of disgust

11.10

Romana Žihlavníková

The reputation beneath the morality (SFA)

Rick Goldberg

The Darwinian Expression of Human Hair

11.30

Edit Szabó

Who knows who is being manipulated? - Mindreading ability and the Dark Triad (SFA)

Jeanne Bovet

Preferred Women's Waist-to-Hip Ratio Variation over the Last 2,500 Years

11.50

Gregory Carter

The Dark Triad in women: Bad girls, femme fatales, and anti-heroines

Felix Schoeller

Aesthetic chills and humans' vital need for cognition (SFA)

12.10

Elisabeth Oberzaucher

The Ontogeny of the Sexual Dimorphism in Error Management

Wulf Schiefenhoewel

From Benjamin Whorf to Margaret Mead et al. Why are ideas about the power of culture so attractive?

12.30

12.50 – 14.00

Lunch

Pathfoot Eatery and Oscars

Applications & Healthy Behaviour

Pathfoot Lecture Theatre

Competition III

Wallace Room

<i>Chair: John Richer</i>			<i>Chair: Michael Stirrat</i>	
Susanne Schmehl Can Ethology Inform FDM Diagnosis and Therapy? (SFA)	14.00		Michael Stirrat Perceived fighting ability in female UFC fighters	
Sergio Silverio A call for re-evaluating psychopathy: Differences in the perceived intelligence of successful and unsuccessful psychopaths (SFA)	14.20		Vít Třebický Reckless thugs and mindful wimps: Negative correlation between perception of fighting success and self-rated formidability (SFA)	
John Richer Ethology steps outside psychiatry.	14.40		Jitka Fialová What makes a fighter successful? Relationship between physical and psychological traits and fighting success in MMA fighters (SFA)	
Thomas Pollet 'Automatic for the people' – The strengths and weaknesses of Machine Learning for analyzing various types of data in the field of human ethology	15.00		Jordan Raine Upper-body strength is encoded and perceived in human agonistic nonverbal vocalisations (SFA)	

15.20 – 15.50

Tea

Crush Hall

15.50 – 17.00

General Assembly

Pathfoot Lecture Theatre

19.30 – 01.00

Congress Banquet & Ceilidh

Stirling Court Hotel

Saturday 6th August

10.00 – 17.00h

**Optional Post-Conference Trip to Trossachs
National Park**

Meet at 09.45h outside MacRobert Centre
Bus returns to MacRobert by 17.00h

Monday 1st August

Plenary I. *Chair: Tom Alley*

Twin Research Meets Ethology and Evolutionary Psychology

Nancy Segal

Dept of Psychology, California State University, Fullerton, USA

Scientific studies using twins offer unique insights into the origins of, and individual differences in, human behavioral and physical characteristics. The classic twin design compares phenotypic resemblance between monozygotic (MZ) and dizygotic (DZ) twin pairs to estimate the genetic and environmental contributions to measured traits. There are also approximately ten variants of the classic twin method (e.g., twin family design and twins reared apart) that can address the same class of questions. A 2015 summary of findings from 2,748 publications, based on 17,804 traits and 14,558,903 twin pairs, found that the degree of genetic influence (heritability) is, on average, 49 percent across all traits. However, in addition to twin designs, there now exist some novel twin-like sibling pairs and other curious couples generated by adoption, assisted reproductive technologies and/or other means (e.g., virtual twins and unrelated look-alikes). These interesting pairs lend themselves well to exploring a range of behavioral questions from the perspectives of ethology and evolutionary psychology. This plenary address will describe a variety of twin research methods that have been used to address ethological and evolutionary based issues and questions. The behavioral domains to be covered include cooperation, competition, altruism, tacit coordination, bereavement, social attraction and parenting. New topics that would benefit from applying twin research methods to questions and hypotheses generated by human ethological and evolutionary psychological reasoning will be suggested.

Tuesday 2nd August

09.20 – 10.20h Plenary II. *Chair: Ian Stephen*

In Good Shape and Colour: Cues Affecting Facial Attractiveness

David Perrett, Carlota Batres, Audrey Henderson, Iris Holzleitner & Martha Boras
School of Psychology and Neuroscience, University of St Andrews, UK

We have studied how skin colour and face shape (a) relate to health and physical status and (b) affect attraction in different populations and environments. Carotenoids are antioxidant plant pigments that increase skin yellowness. We find that skin yellowness relates to several aspects of health. Skin yellowness is higher with a diet rich in fruits and vegetables; lower with high BMI (Body Mass Index) and higher when VO₂max estimates of fitness increase. At the perceptual level, an increase in skin yellowness is seen as more attractive and associated with higher fitness particularly those who are fit themselves. Previous research suggests impressions of power are based on facial cues to masculinity and strength. We analysed the shape of faces in relation to their owners' body physique and actual upper-body strength. We found that body height, muscle and fat mass are all perceivable from faces, while judgments of strength show limited accuracy. Judgments of strength appear to reflect strong generalization from cues to body size rather than musculature. We examined individual differences in reactions to facial cues of power. We find that concern over domestic violence decreases women's perceptions of attractiveness of masculine-faced, (powerful) men. Hence, our findings demonstrate limited accuracy in judgments of power but show pervasive social influences of facial cues to power. Facial preferences are thought to depend on the environment. We explored preferences during 9 days of intensive army training and found that when the environment became harsher, men's attraction to cues of higher BMI in women's faces increased. These results demonstrate the flexibility of interpersonal attraction. Rural populations prefer heavier women than urban populations. We found that weight preferences aligned with population differences in facial appearance. This suggests that environmental pressures may affect appearance and that familiarity could contribute to population differences in interpersonal attraction.

Symposium I. *Chair: Anthony Little*

Evolution and Human Face Perception

There has been much interest in how evolution may have shaped how we perceive faces and why we react the way we do to certain facial characteristics such as attractiveness. This symposium brings together a number of researchers interested in the psychology of facial appearance to cover a broad range of current issues in the evolution of face perception including the perception of leadership, beauty, and intelligence from adult faces as well as the perception of infant faces and how hormones impact on facial appearance.

Variable voting: Exposure to different environmental cues influences hypothetical voting decisions based on facial cues

Anthony C. Little

Division of Psychology, University of Stirling, UK

The relationship between men's hormones and facial appearance (SFA)

Michal Kandrik, Amanda C Hahn, Chengyang Han, Joanna Wincenciak, Lisa M Debruine, & Benedict C Jones

Institute of Neuroscience and Psychology, University of Glasgow, UK

Eyelid-Openness and Mouth Curvature Influence Perceived Intelligence Beyond Attractiveness (SFA)

Sean N. Talamas¹, Kenneth I. Mavor¹, John Axelsson², Tina Sundelin³ & David I. Perrett¹

¹*School of Psychology and Neuroscience, University of St Andrews, UK*

²*Department of Clinical Neuroscience, Division for Psychology & Osher Centre for Integrative Medicine, Karolinska Institute, Sweden*

³*Department of Psychology, Stockholm University, Sweden*

Domestic violence lowers masculinity preference in Colombian women (SFA)

Martha Lucia Borrás, David I. Perrett & Carlota Batres

School of Psychology & Neuroscience, University of St Andrews, UK

Hormonal and personality correlates of women's responses to infant facial cues

Amanda Hahn¹, Lisa DeBruine¹, Dave Perrett² & Benedict Jones¹

¹*Institute of Neuroscience & Psychology, University of Glasgow, UK*

²*School of Psychology & Neuroscience, University of St Andrews, UK*

Co-operation Chair: Moritz Köster

Joint observation of visual arts facilitates within-group cooperation

Eveline Seghers¹ & Delphine De Smet¹

¹*Descartes Centre for the History and Philosophy of the Sciences and the Humanities, Utrecht University, The Netherlands*

²*Department of Interdisciplinary Study of Law, Private Law and Business Law, Ghent, Belgium*

Human cooperation: observations and experiments on games in the wild (SFA)

Amy Munro-Faure & Matt Bell

Institute of Evolutionary Biology, University of Edinburgh, UK

Does city living shape our pro-social tendency? (SFA)

Elena Zwirner¹ & Nichola Raihani²

¹*Department of Genetics, Evolution and Environment, University College London, UK*

²*Department of Experimental Psychology, University College London, UK*

Are cooperative men showing off? Contributions to a public good are larger under sexual competition

Arnaud Tognetti¹, Dimitri Dubois², Charlotte Faurie^{3,4} & Marc Willinger³⁻⁵

¹*Institute for Advanced Study in Toulouse, Toulouse, France*

²*CNRS, UMR 5474, LAMETA, av. R. Dugrand, C.S. 79606, 34960 Montpellier, France*

³*University of Montpellier, France*

⁴*CNRS, Institute of Evolutionary Sciences, pl. E. Bataillon, 34095 Montpellier, France*

⁵*Institut Universitaire de France*

Cognitive and motivational underpinnings of early helping behavior (SFA)

Moritz Köster¹, Shoji Itakura² & Joscha Kärtner³

¹*Department of Developmental Psychology, University of Münster, Germany*

²*Graduate School of Letters, Kyoto University, Japan*

³*Department of Developmental Psychology, University of Münster, Germany*

Competition I Chair: Maryanne Fisher

Female Status, Gaze Behaviour and Menstrual Phase

Martin Sharp & Geordan Hamilton

School of Health and Life Sciences, Glasgow Caledonian University, Glasgow, UK

A pilot study in the Paris metro on the (nonverbal) discrimination of the Roma

Martin Aranguren

Unité de Recherches Migrations et Sociétés, CNRS, France

Divided loyalties: Assessing coalitional behaviors in an American college football rivalry

Daniel J. Kruger¹, Stephanie L. Misevich², Michele M. Day², Camille V. Phaneuf², Claire M. Saunders², Dora Juhasz², Anna M. Heyblom², Vibha Sreenivasa², Ailiya Duan², Peter A. Sonnega² & Jessica S. Kruger³

¹*School of Public Health, University of Michigan, USA*

²*Literature, Sciences, and Arts, University of Michigan, USA*

³*College of Health Sciences, University of Toledo, USA*

Explorations into Competitive Mothering

Maryanne L. Fisher

Dept of Psychology, St Mary's University, Canada

Mate choice Chair: Tamas David-Barrett

I know what I like...or do I? Illusory preference in mate choice

Edward Morrison

Dept of Psychology, University of Portsmouth, UK

Complementarity or Homogamy? Positive assortative mating in sibling constellations (SFA)

Petr Tureček^{1,2} & Jan Havlíček^{1,2}

¹*Faculty of Science, Charles University, Prague, Czech Republic*

²*National Institute of Mental Health, Klecany, Czech Republic*

The Westermarck effect: Measuring incest aversion by pupil dilation

Rick O'Gorman, Gerulf Rieger, Katherine McCulloch & Lydia Whitaker

Dept of Psychology, University of Essex, UK

Network effects in human mate choice

Tamas David-Barrett

Dept of Experimental Psychology, University of Oxford, UK

POSTERS

- 1. Mate Retention Tactics Decline with Age of Men (SFA)**
Farid Pazhoohi¹, Alaeddin Sayahian Jahromi² & James Francis Doyle³
¹Human Cognition Lab, Dept Basic Psychology, University of Minho, Portugal
²Zarghan Branch, Islamic Azad University, Zarghan, Iran
³Stillwater, MN, USA

- 2. Religious Veiling and Hitchhiking: A Field Study (SFA)**
Farid Pazhoohi¹ & Robert P. Burriss²
¹Human Cognition Lab, Department of Basic Psychology, University of Minho, Portugal
²Department of Psychology, Northumbria University, Newcastle, UK

- 3. Context-contingent effects of facial cues on leadership judgments generalize to samples including diverse ages (SFA)**
Vanessa Fasolt, Amanda C Hahn, Anthony J Lee, Lisa M DeBruine & Benedict C Jones
Institute of Neuroscience and Psychology, University of Glasgow, UK

- 4. Interrelationships among men's threat potential, facial dominance, and vocal dominance (SFA)**
Chengyang Han¹, Michal Kandrik¹, Amanda Hahn¹, Claire Fisher¹, David Feinberg², Lisa DeBruine¹ & Benedict Jones¹
¹Institute of Neuroscience and Psychology, University of Glasgow, UK
²Department of Psychology, McMaster University, Canada

- 5. Do partnered women discriminate men's faces less along the attractiveness dimension? (SFA)**
Hongyi Wang, Amanda C. Hahn, Lisa M. DeBruine & Benedict C. Jones
Institute of Neuroscience & Psychology, University of Glasgow, UK

- 6. The effect of masculinization on the perceived trustworthiness of male faces varying in attractiveness**
Ádám Putz & Tamás Bereczkei
Dept of Psychology, University of Pécs, Hungary

- 7. Is women's sociosexual orientation related to their physical attractiveness? (SFA)**
Claire I Fisher, Amanda C Hahn, Lisa M DeBruine & Benedict C Jones
Institute of Neuroscience and Psychology, University of Glasgow, UK

- 8. Comparison of static physical attractiveness and attractiveness of nonverbal behavior in women: creation ethogram for sexual preference research stimuli development (research proposal) (SFA)**
Tomáš Hladký¹, Timothy Jason Wells², Klára Bártová^{1,2}, Kateřina Potyszová¹, Kateřina Klapilová^{1,2}, Jana Kmoníčková^{1,2} and Jakub Binter^{1,2}
¹Department of Anthropology, Charles University, Prague, Czech Republic
²Evolutionary Sexology and Psychopathology Group, National Institute of Mental Health, Klecany, Czech Republic

- 9. To remove or not to remove: the impact of outlier handling on significance testing in testosterone data**
Thomas V. Pollet & Leander van der Meij

Experimental and Applied Psychology, VU University Amsterdam, The Netherlands

10. Does Territoriality in Women's Bathroom Behaviour Vary by Population (SFA)

Laura Langille, Samantha Daley, Julia Roddi, Jany Blanchard & Maryanne Fisher
Dept of Psychology, Saint Mary's University, Canada

11. A New Disgust Instrument: Developing a new tool for studying the Behavioural Immune System (SFA)

Paxton Culpepper & S. Craig Roberts
Division of Psychology, University of Stirling, UK

12. The development of cultural cognition: Perceptual processes and observational learning in different cultures (SFA)

Moritz Köster¹, Shoji Itakura² & Joscha Kärtner³
¹*Department of Developmental Psychology, University of Münster, Germany*
²*Department of Psychology, Kyoto University, Japan*
³*Department of Developmental Psychology, University of Mün*

13. The relationship among voice pitch, testosterone and dominance in women (SFA)

Tereza Zikánová, Jakub Binter, Timothy Wells & Kateřina Klapilová
Department of Anthropology, Charles University, Prague, and National Institute of Mental Health, Czech Republic

14. Perceived vulnerability to disease moderates attraction to immunologically similar scent (SFA)

Naomi K. Muggleton & Corey L. Fincher
Dept of Psychology, University of Warwick, UK

15. Looking at Facebook Behaviors and Mating Strategies through an Evolutionary Lens (SFA)

Betül Urgancı¹, Çağla Çınar² & David M.G. Lewis¹
¹*Dept of Psychology, Bilkent University, Turkey*
²*Dept of Psychology, VU University Amsterdam, The Netherlands*

16. Food Neophobia and Food Insecurity: A Community Sample Study (SFA)

Jessica Kruger¹ & Thomas Alley²
¹*Health and Recreation Professions, University of Toledo, USA*
²*Dept of Psychology, Clemson University, USA*

17. Is there really something about the outside of a horse that's good for the inside of a man? Exploring the factors influencing the human-horse relationship in a therapeutic context (SFA)

Hannah Turrell & S. Craig Roberts
Division of Psychology, University of Stirling, UK

18. Multiscale analysis of masculinity and sexism (SFA)

Luca Kozma & Ferenc Kocsor
Institute of Psychology, University of Pécs, Hungary

19. Self-perceived attractiveness, immune potential against pathogen and free testosterone levels in healthy men (SFA)

Judyta Nowak¹, Borkowska Barbara¹, Daria Augustyniak², Zuzanna Drulis-Kawa² & Bogusław Pawłowski

¹ Dept of Human Biology, University of Wrocław, Poland

² Department of Pathogen Biology and Immunology, University of Wrocław, Poland

20. A new method for odour collection (SFA)

Caroline Allen, Julia Baumann & S. Craig Roberts

Division of Psychology, University of Stirling, UK

21. Mate choice copying and perceived male attainability (SFA)

Mark Ord, Tamsin Saxton & Nick Neave

Dept of Psychology, Northumbria University, Newcastle Upon Tyne, UK

22. Romantic selfie posting behavior is a predictor of relationship quality among men (SFA)

Agnieszka Sabiniewicz¹, Michal Kanonowicz¹, Barbara Borkowska², Joanna Widomska¹, Iwona

Krzyżańska¹, Agnieszka Niemczyk¹ & Michał Misiak³

¹ Institute of Psychology, University of Wrocław, Poland

² Dept of Anthropology, University of Wrocław, Poland

³ Institute of Psychology, Adam Mickiewicz University, Poland

23. Good enough for my daughter? Parental preferences for offspring partner's facial traits can enhance parental inclusive fitness

Tamsin Saxton¹ & Carmen Lefevre²

¹ Department of Psychology, Northumbria University, UK

² Centre for Behaviour Change, University College London, UK

24. Preferred and actual relative height are related to sex, sexual orientation, and dominance: Evidence from Brazil and the Czech Republic (SFA)

Zuzana Štěrbová^{1,2}, Marco Antonio Correa Varella³, Klára Bártová^{1,4}, Jaroslava Varella Valentova³

¹ National Institute of Mental Health, Czech Republic

² Institute of Sexology, First Faculty of Medicine, Charles University, Czech Republic

³ Dept of Experimental Psychology, University of Sao Paulo, Brazil

⁴ Dept of General Anthropology, Charles University, Czech Republic

25. Null effect of brief evaluative conditioning on odour pleasantness

Markéta Sobotková¹, Lenka Martinec Nováková^{2,3}, Anna Kernerová⁴ & Jan Havlíček^{1,3}

¹ Dept of Zoology, Charles University, Prague, Czech Republic

² Dept of Anthropology, Charles University, Czech Republic

³ National Institute of Mental Health, Klecany, Czech Republic

⁴ Dept of Anthropology, Charles University, Prague, Czech Republic

26. Jealousy in homosexual men (SFA)

Kateřina Potyszová (1), Klara Bártová (1,2) & Jaroslava Varella Valentova (2,3)

¹ Dept of Anthropology, Charles University, Prague, Czech Republic

² Evolutionary Sexology and Psychopathology Group, National Institute of Mental Health, Klecany, Czech Republic

³ Dept of Experimental Psychology, Institute of Psychology, University of Sao Paulo, Brazil

27. Neural correlates of facial attractiveness judgments (SFA)

Catherine-Noémie Alexandrina Guran, Justin Ales & David Ian Perrett

School of Psychology & Neuroscience, University of St Andrews, UK

28. Culture and food availability shape the preferences for basic tastes: A cross-cultural study among Polish, Tsimane' and Hadza societies (SFA)

Robert Pellegrino¹, Piotr Sorokowski², Marina Butovskaya³, Michalina Marczak², Agnieszka Niemczyk², Tomas Huanca⁴ & Agnieszka Sorokowska¹

¹ *Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Dresden, Germany*

² *Institute of Psychology, University of Wrocław, Wrocław, Poland*

³ *Center for Social Anthropology, Russian State University for the Humanities, Moscow, Russia*

⁴ *Centro Boliviano de Investigación y de Desarrollo Socio Integral, Correo Central, San Borja, Beni, Bolivia*

29. Individual differences in the rating of flower beauty (SFA)

Martin Hůla & Jaroslav Flegr

Dept of Philosophy and History of Science, Charles University, Prague, Czech Republic

30. How big is the difference? The effect of gender and age-gap between siblings on educational achievements (SFA)

Radim Kuba^{1,2}, Jaroslav Flegr¹ & Jan Havlíček^{2,3}

¹ *Dept of Philosophy and History of Science, Charles University, Prague, Czech Republic*

² *National Institute of Mental Health, Klecany, Czech Republic*

³ *Dept of Zoology, Charles University, Prague, Czech Republic*

31. What's most relevant to someone's concern about infectious diseases, their early-life experience of illness or current perception of diseases?

Corey L. Fincher & Rattanawan Arunthunya

Dept of Psychology, University of Warwick, UK

32. Revisiting the 'sweaty t-shirt' paradigm: comparing resting body odour and exercise sweat (SFA)

Julia Baumann, Caroline Allen and S. Craig Roberts

Division of Psychology, University of Stirling, UK

33. Do single and coupled individuals differ in their ideal partner preferences? (SFA)

Radka Kučerová & Jan Havlíček

Dept of Zoology, Charles University, Prague, and National Institute of Mental Health, Klecany, Czech Republic

34. Testosterone Reactivity and Status: Exploring Sex Differences in Response to Physical Competition

Martin A. Sharp¹ & Emad E.A.S Al-Dujaili²

¹ *School of Health and Life Sciences, Glasgow Caledonian University, UK*

² *Dietetics, Nutrition and Biological Sciences, Queen Margaret University, UK*

35. Partner preferences, jealousy, satisfaction and desire while using hormonal contraception: a comparison of different hormonal methods (SFA)

Theresa Grod & S. Craig Roberts

Division of Psychology, University of Stirling, UK

36. Inside and outside stories about us humans

John Richer

Paediatric Psychology, Oxford University Hospitals, Oxford, UK

37. How city living makes us distrustful (SFA)

Elena Zwirner¹ & Nichola Raihani²

¹ *Dept of Genetics, Evolution and Environment, University College London, UK*

² *Dept of Experimental Psychology, University College London, UK*

38. The Voice of Trustworthiness (SFA)

Wilhelm K. Klatt & Janek S. Lobmaier

Department of Psychology, Biological & Cognitive Psychology, University of Bern, Switzerland

39. Own attractiveness and perceived relationship quality shape sensitivity in women's memory for other men on the attractiveness dimension.

Christopher D Watkins¹, Mike J Nicholls¹, Carlota Batres², Dengke Xiao², Sean Talamas² & David I Perrett²

¹ *Division of Psychology, Abertay University, UK*

² *School of Psychology and Neuroscience, University of St Andrews, UK*

40. Mutual Olfactory Recognition between Mother and Child (SFA)

Faize Eryaman & S. Craig Roberts

Division of Psychology, University of Stirling, UK

41. Enclosure use by two mixed species groups of tufted capuchins (*Sapajus apella*) and squirrel monkeys (*Saimiri sciureus*) at Living Links, Edinburgh Zoo (SFA)

Sophia Daoudi, Hannah Buchanan-Smith and Phyllis Lee

Division of Psychology, University of Stirling, UK

42. The effect of stress on eyewitnesses' ability to recall faces (SFA)

Domonik Vasquez

Division of Psychology, University of Stirling, UK

43. Child Survival and Kin Affection in a Pastoralist Society (SFA)

Juan Du & Ruth Mace

Dept of Anthropology, University College London, UK

44. Development of Theory of Mind and Self-Awareness

Tereza Nekovářová (1, 2, 3), Michaela Kasalická (5), Petra Skalníková (1, 2), Marketa Rejlová (1, 2), Kateřina Englerová (1,3), Iveta Fajnerova (1, 4), Eva Kozaková (1, 3), Filip Spaniel (1)

¹ *National Institute of Mental Health, Czech Republic*

² *Ecology and Ethology Research Group, Department of Zoology, Charles University, Prague, Czech Republic*

³ *Department of Normal, Pathological and Clinical Physiology, Third Faculty of Medicine, Charles University, Prague, Czech Republic*

⁴ *Institute of Physiology, Academy of Sciences of the Czech Republic, Prague, Czech Republic*

⁵ *Dept of Psychology, Charles University, Prague, Czech Republic*

45. Handgrip strength and perceptions of aggressiveness, dominance and health in 3D male faces (SFA)

Louise Heron and Anthony Little

Division of Psychology, University of Stirling, UK

46. Does use of oral contraception influence women's assortative preferences for men's facial resemblance and personality?

Francesca Singleton & S. Craig Roberts

Division of Psychology, University of Stirling, UK

47. Social Perception of Bodies (SFA)

Danielle K. Morrison, Benedict C. Jones & Lisa M. DeBruine

Institute of Neuroscience and Psychology, University of Glasgow, UK

48. Two-to five-year-olds copy movements with higher fidelity when they are not followed by an external effect (SFA)

Brier Alexandra Rigby Dames, Joshua March and Eva Rafetseder

Division of Psychology, University of Stirling, UK

49. Using Life-History Theory to predict Aggression and Mate Guarding in Adolescent Males

Kraig S. Shattuck

Dept of Psychology, Wayne State University, USA

Plenary III. *Chair: Amanda Hahn*

Social affiliation and alignment with others in infancy and early childhood

Malinda Carpenter ^{1,2}

¹ *School of Psychology and Neuroscience, University of St Andrews, UK*

² *Dept of Developmental and Comparative Psychology, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany*

Humans connect with others in special ways. Beginning in infancy, we get great pleasure out of sharing and aligning attention, emotions, attitudes and behaviour with others, and by early childhood a sense of belonging to a larger ‘we’ – our social groups – is also very important to us. I present a broad overview of our recent research on the development of various types of affiliation and alignment with others. I begin by discussing what is unique about human joint attention and imitation in terms of their underlying social motivations. I then turn to our work on children’s groupmindedness, where I present studies on the strength of our early need to belong (e.g., work on young children’s reactions to the threat of ostracism from the group). It is clear, however, that children do not just affiliate and align themselves with others blindly. I end by demonstrating that children show great selectivity in partner choice and similar contexts: I discuss children’s preferential treatment of their in-group members, as well as their selective trust of and prosocial behaviour towards other evolutionarily relevant potential partners, such as people who act like them, people who cooperate with them and good, moral group members. Taken together, these findings show the strength, breadth and complexity of our early motivation to affiliate and align ourselves with others, both interpersonally and at the group level.

Symposium II *Chair: Christine Caldwell*

Developmental approaches to understanding human social learning

Much of what distinguishes human behaviour from the behaviour of other species arises as a consequence of cultural transmission. Understanding the evolution, mechanisms, and outcomes of human social learning can therefore provide fundamental insights into humans’ extreme adaptability, shedding light on the capacities which have allowed us to occupy a wider range of habitats than any other species.

The developing mind provides a unique window on these capacities. Childhood offers us the opportunity to observe how various life skills are formed, since these are still being learned, and this therefore allows us to determine how critical social learning may be to the development of particular behaviours. In addition, the child’s developing cognitive abilities permit insights into which general mechanisms may support uniquely human forms of social learning, through investigation of patterns of common association over development. Furthermore, the fact that capacities for social learning are themselves developing throughout childhood means that we can also investigate the role of experience in the formation of adult-like social learning.

This symposium brings together researchers using a range of novel techniques to answer such questions. Their methods are varied, but their studies all provide powerful demonstrations of the value of experimental research with human children as a means to elucidate general principles relating to social learning. Some of the contributors adopt an explicitly comparative perspective, aiming to understand which of our capacities are shared with other species and which seem to be unique (e.g. Reindl, Renner). Others are focussed on the development of social learning processes

which are believed to be uniquely prevalent in humans (e.g. March: overimitation), or the role of social experience in the development of other behaviours most often seen in humans (e.g. contingent reciprocity, McGuigan/Messer). O'Sullivan will consider the role of experience in the development of human social learning mechanisms, which may themselves be dependent on inputs from the rich human social environment.

Automatic imitation effects are influenced by experience of synchronous action in children

Eoin O'Sullivan¹, Simone Bijvoet-van den Berg² & Christine A. Caldwell¹

¹ *Division of Psychology, University of Stirling, UK*

² *Dept of Psychology, University of Sheffield, UK*

Human children spontaneously invent great ape tool-use behaviours (SFA)

Eva Reindl, Sarah Beck, Ian Apperly & Claudio Tennie

School of Psychology, University of Birmingham, UK

Do children and orangutans learn differently in individual, social, and "ghost" conditions?

Elizabeth Renner¹⁻³, Eric Patterson⁴ & Francys Subiaul^{2,3}

¹ *Division of Psychology, University of Stirling, UK*

² *Center for the Advanced Study of Human Paleobiology, The George Washington University, Washington, DC, USA*

³ *National Zoological Park, Smithsonian Institution, Washington, DC, USA*

⁴ *Dept of Biology, Georgetown University, Washington, DC, USA*

Faithful imitation is based on different mechanisms throughout childhood (SFA)

Joshua March, Rosemary Gillespie & Eva Rafetseder

Division of Psychology, University of Stirling, UK

The role of social experience on young children's donating behaviour

Emily Messer & Nicola McGuigan

Department of Psychology, Heriot-Watt University, Edinburgh, UK

Attractiveness I Chair: Karel Kleisner

Men's preferences for women's breast size and shape in four cultures

Jan Havlíček^{1,2}, Vít Třebický^{1,2}, Jaroslava Varella Valentova³, Karel Kleisner^{1,2}, Robert Mbe Akoko⁴, Jitka Fialová^{1,2}, Rosina Jash⁵, Tomáš Kočnar¹, Kamila Janaina Pereira³, Marco Antonio Corrêa Varella³, Jana Vokurková¹, Ernest Vunan⁴ and S. Craig Roberts⁶

¹ *Faculty of Science, Charles University, Prague, Czech Republic*

² *National Institute of Mental Health, Klecany, Czech Republic*

³ *Institute of Psychology, University of São Paulo, Brazil*

⁴ *University of Buea, Buea, Cameroon*

⁵ *Tseiblaagte, Keetmanshoop, Namibia*

⁶ *Division of Psychology, University of Stirling, UK*

Relationship between breast shape (ptosis) and the perception of woman's attractiveness and age. Evidence from Poland and Papua (SFA)

Agata Groyecka¹, Piotr Sorokowski¹ & Agnieszka Żelaźniewicz²

¹ *Institute of Psychology, University of Wrocław, Poland*

² *Dept of Anthropology, University of Wrocław, Poland*

Breast size in pregnancy and a woman's breastmilk composition and volume

Agnieszka Żelaźniewicz & Bogusław Pawłowski

Dept of Human Biology, University of Wrocław, Poland

Male facial appearance and offspring mortality in two traditional societies.

Lynda Boothroyd

Department of Psychology, Durham University, UK

African and European perception of African female attractiveness

Karel Kleisner¹, Tomáš Kočnar¹, David Stella¹, Robert Mbe Akoko², Rosina Jash³, Vít Třebický⁴ & Jan Havlíček⁴

¹ *Dept of Philosophy and History of Sciences, Charles University, Prague, Czech Republic*

² *Dept of Sociology and Anthropology, University of Buea, Republic of Cameroon*

³ *Tseiblaagte, Keetmanshoop, Namibia*

⁴ *Dept of Zoology, Charles University, Prague, Czech Republic*

Competition II Chair: Marc Mehu

LINDA MEALEY AWARD WINNER

Hormonal and behavioral changes in young adult heterosexual men during competition for a female partner: hormonal and behavioral analyses (SFA)

Jakub Binter^{1,2}, Timothy Jason Wells^{1,2}, Juan David Leongómez³, Pavel Šebesta², Klára Bártová^{1,2}, Lucie Krejčová^{1,2}, Tereza Zikánová^{1,2}, Renata Androvičová², Kateřina Ježková¹, Jitka Lindová^{1,2} & Kateřina Klapilová^{1,2}

¹ *Dept of Anthropology, Charles University in Prague, Czech Republic*

² *Evolutionary Sexology and Psychopathology Group, National Institute of Mental Health, Klecany, Czech Republic*

³ *Facultad de Psicología, Universidad El Bosque, Bogota, Colombia*

Sex differences in the perceived dominance and prestige of women with and without cosmetics (SFA)

Viktoria R. Mileva¹, Alex L. Jones², Richard Russell³ & Anthony C. Little¹

¹ *Division of Psychology, University of Stirling, UK*

² *Dept of Psychology, Swansea University, UK*

³ *Dept of Psychology, Gettysburg College, PA, USA*

The Dyadic effects of Prestige and Dominance within Social Networks: A longitudinal study of social status in the classroom (SFA)

Daniel Redhead¹, Joey T. Cheng² & Rick O'Gorman¹

¹ *Dept of Psychology, University of Essex, UK*

² *Dept of Psychology, University of Illinois, Urbana-Champaign, USA*

Testosterone, dominance, and communicative behavior in face-to-face dyadic negotiations

Marc Mehu¹, Jacobien van Peer² & Katja Schlegel³

¹ *Dept of Psychology, Webster Vienna Private University, Austria*

² *Behavioral Science Institute, Radboud University Nijmegen, The Netherlands*

³ *Dept of Psychology, Northeastern University, USA*

Voice Perception Chair: Tamsin Saxton

Changes in voice pitch across a lifetime: a longitudinal within-individual study

Katarzyna Pisanski¹, Meddy Fouquet^{1,2} & David Reby¹

¹ *Mammal Vocal Communication & Cognition Research Group, University of Sussex, Brighton, UK*

² *University of Saint-Etienne, Saint-Etienne, France*

Perceived differences in social status between speaker and listener affect the speaker's vocal characteristics

Juan David Leongómez^{1,2}, Viktoria R. Mileva¹, Anthony C. Little¹ & S. Craig Roberts¹

¹ *Division of Psychology, University of Stirling, UK*

² *Facultad de Psicología, Universidad El Bosque, Bogotá, Colombia*

Vocal changes across the menstrual cycle: Are we there yet? (SFA)

Irena Pavela¹, Benjamin Banai², Petra Cerovecki¹ & Matea Perovic¹

¹ *Dept of Psychology, University of Zadar, Zadar, Croatia*

² *Dept of Psychology, University of Osijek, Croatia*

A lover or a fighter? Opposing sexual selection pressures on men's vocal pitch and facial hair

Tamsin K. Saxton, Lauren L. Mackey, Kristofor McCarty & Nick Neave

Department of Psychology, Northumbria University, UK

Romantic Relationships Chair: Ana Maria Fernandez

Meaning of love - a study among hunter-gatherers

Piotr Sorokowski¹, Marina Butovskaya² & Agnieszka Sorokowska^{1,3}

¹ *Institute of Psychology, University of Wrocław, Poland*

² *Institute of Ethnology and Anthropology, Russian Academy of Sciences, Russia*

³ *Smell & Taste Clinic, TU Dresden, Germany*

Manipulative strategies in conflict interactions: The privilege of low powered submissive romantic partners? (SFA)

Denisa Průšová, Kateřina Klapilová & Jitka Lindová

Laboratory of Evolutionary Sexology and Psychopathology, National Institute of Mental Health, Klecany, Czech Republic

Psychological Sperm Competition Mechanisms and the Moderating Effect of Romantic Attachment Style (SFA)

Tara DeLecce, Richard B. Slatcher & Catalina Kopetz

Dept of Psychology, Wayne State University, Detroit, USA

Unrestricted sexuality promotes greater distinction in women's short- and long-term mate preferences (SFA)

Naomi K. Muggleton & Corey L. Fincher

Department of Psychology, University of Warwick, UK

The reciprocal nature of romantic relationship

Ana Maria Fernandez¹, Jose Antonio Muñoz² & Paula Pavez¹

¹ *Universidad de Santiago de Chile*

² *Universidad de Playa Ancha, Chile*

Environmental influence on behaviour *Chair: Thomas Pollet*

Tell me baby, does your heart beat faster? Autonomic Response in Newborns to Relatively Strong and Mild Trigeminal Odorants (SFA)

Jiřina Bouřov¹, Lenka Martinec Novkov¹⁻³, Jitka Fialov^{2,3}, Markta Sobotkov², Benoist Schaal⁴, Jan Havlček^{2,3}

¹ *Dept of Anthropology, Charles University, Prague, Czech Republic*

² *Dept of Zoology, Charles University, Prague, Czech Republic*

³ *National Institute of Mental Health, Klecany, Czech Republic*

⁴ *French National Centre for Scientific Research, Paris, France*

Assessing the relative impact of physical safety, social support and poor economic conditions on food preference (SFA)

Jim Swaffield & S. Craig Roberts

¹ *Division of Psychology, University of Stirling, UK*

Prenatal exposure to sex hormones predicts gratitude intervention use. Examination of digit ratio, motivational beliefs, and online activities (SFA)

Micha Misiak¹, Łukasz Dominik Kaczmarek¹, Todd Kashdan², Marcin Zimny¹, Adam Zasiński¹, Hubert Urbański¹ & David Disabato²

¹ *Institute of Psychology, Adam Mickiewicz University, Poland*

² *Department of Psychology, George Mason University, USA*

Television consumption is the strongest predictor of female body size ideals in populations recently exposed to the media

Jean-Luc Jucker^{1,2}, Tracey Thornborrow³, Mark Jamieson⁴, Michael Burt⁵, Robert Barton⁶, Elizabeth H. Evans⁶, Martin J. Tovee³, and Lynda G. Boothroyd¹

¹ *Dept of Psychology, Durham University, UK*

² *Dept of Social Sciences, University of the Autonomous Regions of the Nicaraguan Caribbean Coast, Nicaragua*

³ *Institute of Neuroscience, Newcastle University, UK*

⁴ *School of Social Sciences, University of East London, UK*

⁵ *Dept of Anthropology, Durham University, UK*

⁶ *Institute of Health and Society, Newcastle University, UK*

Culture or trust as human tools to face environmental changes? The Vyegwa-Gika Pygmies from Burundi

Cristina Acedo Carmona, Enric Munar & Antoni Gomila

Human Evolution and Cognition (EVOCOG) Group, University of the Balearic Islands, Spain

Plenary IV. *Chair: Jan Havlíček*

Coevolutionary adjustment of olfactory communication between mammalian – including human – females and their neonates

Benoist Schaal^{1,2}

¹ CNRS, Paris, France

² Centre for Smell, Taste and Food Science, University of Burgundy, Dijon, France

Under extremely tough selective pressure for survival, neonatal mammals must rapidly gain the protective, hydrational, and nutritional benefits from milk. It is thus critical for females to boost their offspring efforts by presenting interface structures for milk transfer (nipples) that match the psychobiology of the newborn receiver. Females evolved nipples probably in exploiting the neonates' most advanced motor and sensory abilities (somesthesia and olfaction). Thus synthesising milk and attracting progeny, on the mother's side, and nipple/milk-related sensory biases and suckling, on the neonate's side, indicate a profusion of coevolved anatomical, physiological and behavioural traits. In the present talk, I will consider odour-based strategies females deploy to drive their offspring to the nipple in several species of mammals, including humans. Maternal chemostimuli are produced through multiple sources, ranging from individual-specific cues and signatures which reflect maternal conditions (genotype, diet, physiological stage, stress, etc.) to species-specific, unlearned signals (i.e., pheromones). As both types of informative stimuli are functionally equivalent in driving neonatal arousal, motivation and appetitive behaviour, they are difficult to disentangle. In rare cases, however, unlearned signals of mammary origin could be isolated from the wealth of arbitrary individual-specific cues conveyed in milk and extra-mammary sources (saliva, skin glands, tears, etc.). The former unconditional chemosignals were shown to work in tandem with the arbitrary odour cues, specifically in imposing expedite learning of the latter. The complexity, intricateness and developmental sequentiality of the processes engaged by mother-to-neonate chemosignalling will be highlighted. When offspring dependence on milk declines, the functional value of these signals and cues changes, being abolished or reassigned. This developmental alteration of the behavioural significance of chemocommunicative mechanisms provides an opportunity to assess whether they were 'selected for' more or less exclusive service during a restricted period of early life, are vital for multiple proximate benefits to neonates (and mothers), and anticipate offspring transition to the next developmental stage. An understanding of the ontogenetic transformations of emission of these chemostimuli by females and of their perception by neonates can indeed widen the range of testable predictions on early communication, but also on molecular and brain processes underlying early perception and cognition.

Social cognition I. *Chair: Agnieszka Sorokowska*

Voice-based assessments of trustworthiness, competence and warmth in blind and sighted adults (SFA)

Anna Oleszkiewicz, Katarzyna Pisanski, Kinga Lachowicz-Tabaczek & Agnieszka Sorokowska
Institute of Psychology, University of Wrocław, Poland

It's not too much about the „Who“ but rather about the „How“. Early parental investment in two cultural contexts (SFA)

Niklas Dworazik¹, Yan Serdste², Ruthi Senesh², Hiltrud Otto³, Heidi Keller^{1,2}

¹ *Institute of Psychology, Osnabrueck University, Germany*

² NEVET, School of Social Work and Social Welfare, Hebrew University, Israel

³ Department of Psychology, Hunter College, NYC, USA

Perfumers' perceptions of body odours: Towards a new scale for odour description (SFA)

Caroline Allen¹, Kate Williams² & S. Craig Roberts¹

¹ Division of Psychology, University of Stirling, UK

² Seven Scent Ltd, Manchester, UK

Comparing assessments of facial features by participants using various continuous slider scores

Hermann Prossinger, Alexandra Muehlhauser & Elisabeth Oberzaucher

Dept of Anthropology, University of Vienna, Austria

Olfactory performance in 84 early-blind and late-blind individuals

Agnieszka Sorokowska^{1,2}

¹ Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Germany

² Institute of Psychology, University of Wroclaw, Poland

Attractiveness II. Chair: Michal Kandrik

The body and the beautiful: Health, attractiveness and body composition in men's and women's bodies

Ian D Stephen^{1,3}, Mary-Ellen Brierley¹, Kevin R. Brooks^{1,3}, Jonathan Mond¹ & Richard J Stevenson^{1,3}

¹ Dept of Psychology, Macquarie University, Australia

² ARC Centre of Excellence in Cognition and its Disorders, Australia

³ Perception in Action Research Centre (PARC), Macquarie University, Australia

Facial averageness and genetic quality: testing heritability, genetic correlation with attractiveness, and the paternal age effect.

Anthony J. Lee¹, Dorian G. Mitchem^{2,3}, Margaret J. Wright⁴, Nicholas G. Martin⁴, Matthew C. Keller^{2,3} & Brendan P. Zietsch^{4,5}

¹ Institute of Neuroscience and Psychology, University of Glasgow, UK

² Department of Psychology and Neuroscience, University of Colorado Boulder, USA

³ Institute for Behavioral Genetics, University of Colorado Boulder, USA

⁴ QIMR Berghofer Medical Research Institute, Australia

⁵ School of Psychology, University of Queensland, Australia

Blinded by attractiveness? Dance and gait provide numerous reliable cues to female personality, but raters fail to use them accurately

Jitka Lindová^{1,2}, Magdalena Rynešová¹, Jan Vávra¹, Lucie Krejčová^{1,2}, Vít Třebický^{2,3}, Kateřina Klapilová^{1,2}

¹ Faculty of Humanities, Charles University, Prague, Czech Republic

² National Institute of Mental Health, Klecany, Czech Republic

³ Faculty of Science, Charles University, Prague, Czech Republic

Men's attractiveness and health – declared health versus real immune status (SFA)

Barbara Borkowska¹, Judyta Nowak¹, Zuzanna Drulis-Kawa², Daria Augustyniak² & Boguslaw Pawlowski¹

¹ Dept of Human Biology, University of Wroclaw, Poland

² Dept of Microbiology, Institute of Genetics and Microbiology, University of Wroclaw, Poland

Women's manipulation of ornament display intensity is situation dependent

Colin Hendrie, Rhiannon Chapman, Charlotte Gill, Jordan O'Farrell, Claire Stott
School of Psychology, University of Leeds, UK

Friday 5th August

Plenary V. *Chair: Craig Roberts*

What's so social about primate sociality — and why humans are so different

Robin Dunbar

Dept of Experimental Psychology, University of Oxford, UK

Roots of Human nature. *Chair: Wulf Schiefenhövel*

Dead things, living people: On the interface between ethnology and archaeology

Marian Vanhaeren¹ & Wulf Schiefenhövel^{1,2}

¹ *CNRS UMR 5199 Pacea, University of Bordeaux, France*

² *Human Ethology Group, Max Planck Institute for Ornithology, Starnberg-Seewiesen, Germany*

Aesthetic chills and humans' vital need for cognition (SFA)

Felix Schoeller

CRAL, EHESS, France

The animal origins of disgust

Trevor I. Case¹, Richard J. Stevenson¹, Richard W. Byrne², Catherine Hobaiter²

¹ *Department of Psychology, Macquarie University, Australia*

² *School of Psychology and Neuroscience, University of St. Andrews, UK*

The Darwinian Expression of Human Hair

Rick Goldberg

Independent Scholar and Principal, Binah Yitzrit Foundation, Austin, Texas, USA

Preferred Women's Waist-to-Hip Ratio Variation over the Last 2,500 Years

Jeanne Bovet¹ and Michel Raymond²

¹ *Institute for Advanced Study in Toulouse, France*

² *Institute of Evolutionary Sciences, University of Montpellier, France*

From Benjamin Whorf to Margaret Mead et al. Why are ideas about the power of culture so attractive?

Wulf Schiefenhövel

Social cognition II. *Chair: Elisabeth Oberzaucher*

Exploring the dynamic relationship between emotion and referential communication (SFA)

David J. Moulds¹, Jona Meyer², Hannah Balsillie¹, Michelle Donaldson¹, Janet McLean¹ & Vera Kempe¹

¹ *Division of Psychology, Abertay University, Dundee, UK*

² *Department of Psychology, Ludwig-Maximilians-Universität München, Munich, Germany*

The reputation beneath the morality (SFA)

Romana Žihlavníková^{1,2}, Andrej Mentel³ & Ivan H. Tuf²

¹ *Dept of Psychology, Palacky University, Olomouc, Czech Republic*

² Dept of Ecology and Environmental Sciences, Palacky University, Olomouc, Czech Republic

³ Institute of Social Anthropology, Comenius University, Bratislava, Slovakia

Who knows who is being manipulated? - Mindreading ability and the Dark Triad (SFA)

Edit Szabó & Tamás Bereczkei

Institute of Psychology, University of Pécs, Hungary

The Dark Triad in women: Bad girls, femme fatales, and anti-heroines

Gregory L Carter, Hannah Keeble & Naomi Wooding

Dept of Psychology, York St John University, UK

The Ontogeny of the Sexual Dimorphism in Error Management

Elisabeth Oberzaucher^{1,2}, Stephanie Schmid² & Susanne Schmehl^{1,2}

¹ Department of Anthropology, University of Vienna, Austria

² Urban Human, Vienna, Austria

Competition 3 Chair: Michael Stirrat

What makes a fighter successful? Relationship between physical and psychological traits and fighting success in MMA fighters (SFA)

Jitka Fialová, Vít Třebický & Jan Havlíček

Faculty of Science, Charles University, Prague, & National Institute of Mental Health, Klecany, Czech Republic

Reckless thugs and mindful wimps: Negative correlation between perception of fighting success and self-rated formidability (SFA)

Vít Třebický, Jitka Fialová & Jan Havlíček

Faculty of Science, Charles University, Prague, & National Institute of Mental Health, Klecany, Czech Republic

Upper-body strength is encoded and perceived in human agonistic nonverbal vocalisations (SFA)

Jordan Raine¹, Katarzyna Pisanski¹, Rod Bond¹, David Feinberg² & David Reby¹

¹ Mammal Vocal Communication and Cognition Research, University of Sussex, England

² Dept of Psychology, Neuroscience, and Behaviour, McMaster University, Canada

Perceived fighting ability in female UFC fighters

Michael Stirrat, Neil Abley & James Egdell

Dept of Psychology, York St John University York, UK

Applications and Healthy behavior Chair: John Richer

Can Ethology Inform FDM Diagnosis and Therapy? (SFA)

Susanne Schmehl^{1,2}, Anna Ensberger², Kathrin Masuch², Hanna Müller², Christoph Weinlinger², Georg Harrer³ & Elisabeth Oberzaucher^{1,2}

¹ Faculty of Life Sciences, University of Vienna, Austria

² Urban Human, Vienna, Austria

³ FDM Association

Ethology steps outside psychiatry.

John Richer

Paediatric Psychology, Oxford University Hospitals, Oxford, UK

A call for re-evaluating psychopathy: Differences in the perceived intelligence of successful and unsuccessful psychopaths (SFA)

Sergio A. Silverio & Minna T. Lyons

School of Psychology, University of Liverpool, UK

'Automatic for the people' – The strengths and weaknesses of Machine Learning for analyzing various types of data in the field of human ethology

Thomas V. Pollet

Dept of Experimental and Applied Psychology, VU University Amsterdam, The Netherlands