

# V European Conference on Behavioural Biology

Ferrara, July 16<sup>th</sup>-18<sup>th</sup>, 2010

## Programme



|       |  |   |  |  |
|-------|--|---|--|--|
| 12:05 | Does learning influence the acoustic structure and meaning of alarm calls in a malagasy primate ( <i>Propithecus</i> spp.)?<br>Claudia Fichtel | Evolution of behavioural traits: sex-specific mortality selection on activity<br>Outi Vesakoski | Distinct howling in free-ranging packs of wolves ( <i>Canis lupus</i> )<br>Marco Zaccaroni | Variance in parenting tendency? Fostering behavior in galapagos sea lions<br>Birte Mueller |
| 12:25 | Can the unsuspected anticipatory abilities of <i>Cebus apella</i> and <i>Macaca tonkeana</i> be future planning?<br>Marie Bourjade             | Discussion  | Sternal marking in mandrills: a chemical and ethological investigation<br>Stefano Vaglio   | 'La mamma' makes a difference – silver spoon effects in spotted hyenas<br>Oliver Honer     |

12:45 - 14:00 Lunch

Cloister

14:00 - 16:00 Parallel sessions

|       | Symposium   | Symposium   | Symposium  | Oral session  |
|-------|---|---|--|---|
| Room  | E2  | E3  | D6   | D7  |
| Title | <b>Cognitive abilities of invertebrates: questions and perspectives</b>                         | <b>Lateralised Behaviour</b>  | <b>Audience effect</b>   | <b>Sociality I</b>  |
| Chair | Francesca Gherardi & Robert Elwood  | Davide Csermely & Richard Andrew  | Francesco Dessi-Fulgheri & Peter McGregor  | Donato Grasso   |
| 14:00 | The question of "individual recognition" in invertebrates<br>Francesca Gherardi                 | Forms of lateralisation in common wall lizards<br>Davide Csermely   | Audiences, eavesdropping and communication in networks<br>Peter Mcgregor   | A comparative perspective on delay discounting: from capuchin monkeys to other primate species<br>Elsa Addressi |
| 14:20 | Information gathering by contestants during fights reveals cognitive abilities<br>Robert Elwood | Logical reasoning is best with a lateralised (and social) brain. The case of transitive inference in the domestic chick ( <i>Gallus gallus</i> )<br>Lucia Regolin | Cooperation in communication networks<br>Redouan Bshary  | Pattern and social dynamics of vigilance in redfronted lemurs ( <i>Eulemur fulvus</i> )<br>Peter Kappeler       |
| 14:40 | Do decision-making ants compare alternatives?<br>Elva Robinson                                  | Olfactory lateralization in homing pigeons: GPS-recorded tracks of birds navigating with unilateral olfactory inputs<br>Anna Gagliardo                            | Audience effect on alarm calls in the red-legged partridge<br>Rosaria Binazzi  | Learning to play nice: the emergence of prosocial behavior in pairbonded tamarins<br>Katherine Cronin           |
| 15:00 | Social recognition, memory and learning in ants<br>Patrizia D'Ettorre                           | Maternal testosterone affects sibling competition but not lateralization in the domestic<br>Kristina Pfannkuche   | Postconflict affiliative interactions among bystanders in a tolerant species of macaque ( <i>Macaca tonkeana</i> )<br>Arianna De Marco | Exceeding the pair bond: social structure of jackdaw networks<br>Christine Schwab                               |



11:00 - 13:00 Parallel sessions

|       | Symposium  | Symposium  | Symposium  | Oral session  |
|-------|--|--|--|---|
| Room  | E2   | E3   | D6   | D7  |
| Title | <b>Where, when, and how many? The representation of space, time and number in animals</b>                    | <b>Recognition systems and their overcoming at multiple levels of social organization</b>  | <b>Variation in fitness consequences of mammalian sociality</b>  | <b>Personality</b>  |
| Chair | Christian Agrillo & Jeffrey R Stevens  | Rita Cervo & Patrizia d'Ettorre  | Luis A Ebensperger & Patrick Gouat   | Claudio Carere  |
| 11:00 | Spatial discounting in fish: the convergence of space, time, and number<br><br>Jeffrey Stevens               | Crozier's paradox and genetic kin recognition in a social amoeba<br><br>David Queller  | Fitness consequences of sociality across mammals: a meta-analysis<br><br>Luis Ebensperger  | Effects of personality on territorial signalling in the greats tits ( <i>Parus major</i> )<br><br>Mathieu Amy |
| 11:20 | Ontogeny of numerical competence in the teleost fish <i>Poecilia reticulata</i><br><br>Christian Agrillo     | Variations in cheater's strategies for evading discrimination: mimicry, insignificance, repulsion or their bizarre combination<br><br>Maria Cristina Lorenzi | The social modulation of behavioural profiles and reproductive strategies during early phases of life and adolescence<br><br>Norbert Sachser | Personality types and environmental enrichment affect aggression at weaning in pigs<br><br>Luca Melotti       |
| 11:40 | How domestic chicks do geometry in enclosed spaces<br><br>Cinzia Chiandetti                                  | Acoustic communication between mother and offspring in crocodiles<br><br>Nicolas Mathevon  | Testosterone and intrasexual competition among females in a cooperative mammal<br><br>Heike Lutermann  | Personality in a partial migrant – the blue tit<br><br>Claudia Mettke Hofmann                                 |
| 12:00 | Carrion crows choose higher quantities in a preference but not exchange task<br><br>Claudia Wascher          | Darcin: a male pheromone that stimulates female memory and sexual attraction in the house mouse<br><br>Sarah Roberts   | Are polygynous mound-building female mice in a social trap?<br><br>Christophe Feron  | Biology of fear in birds: multidisciplinary analysis of a genetic model<br><br>Christine Leterrier            |
| 12:20 | Effect of geometric information on orientation behavior in the domestic homing pigeon<br><br>Mareike Fellmin | Fight or fool? How a cuckoo wasp conquer its host colony<br><br>Alessandro Cini  | Discussion   | The social dimension of animal personalities in cooperative breeders<br><br>Markus Zoetl                      |
| 12:40 | Sensory basis of habitat recognition in echolocating bats<br><br>Stefan Greif                                | Discriminative predation: sequential and simultaneous encounter experiments<br><br>Daniel Franks   | Discussion   | Discussion  |

13:00 - 14:30 Lunch

13:30 - 14:30 CESBB Meeting

Cloister

E2

14:30 - 16:30 Parallel sessions

|       | Symposium  | Symposium   | Oral session  | Oral session  |
|-------|--|---|---|---|
| Room  | E2   | E3  | D6  | D7  |
| Title | <b>Long-term consequences of early environment on behaviour</b>  | <b>Behavioural ecology of keystone species as early bioindicator of anthropogenic impact on ecosystems</b>  | <b>Communication II</b>   | <b>Cooperation</b>  |
| Chair | Eva Millesi & Barbara Taborsky   | Stefano Cannicci & Gil Penha-Lopes  | Giorgio Malacarne   | Gianni Laviola  |
| 14:30 | Experience in the egg influences precocial birds later ability to cope with their environment<br><br>Aline Bertin                              | Behavioural ecology as early indicator of anthropogenic impact: a case study on east africa mangrove benthic macrofauna<br><br>Fabrizio Bartolini                     | Long-term nest and mate fidelity in the european eagle owl: an assessment using individual vocal signature<br><br>Charlotte Cure  | Individual specialisation in cooperative breeding alpine marmot ( <i>Marmota marmota</i> )<br><br>Francois Dumont       |
| 14:50 | Social competence acquired by early social experience<br><br>Barbara Taborsky  | Behaviour as a driver of ecosystem functioning<br><br>Gil Penha Lopes   | Complexity and individuality in the contact calls of jackdaws<br><br>Georgine Szipl   | Direct and indirect fitness benefits of philopatry and cooperative care in ambrosia beetles<br><br>Michael Taborsky     |
| 15:10 | Social environment affects juvenile development in male european ground squirrels<br><br>Eva Millesi   | The use of ant functional groups to monitor human impact on european terrestrial ecosystems: what can Italian ant fauna tell us about it?<br><br>Cristina Castracani  | Dual-dialect song playback, and its effect on post-release dispersal following translocation of endangered north island kokako ( <i>Callaeas cinerea wilsoni</i> )<br><br>David Bradley | Habitat saturation, benefits of philopatry, relatedness and cooperative breeding in a cichlid<br><br>Dik Heg            |
| 15:30 | Are woodpecker finches from an unpredictable environment more flexible?<br><br>Sabine Tebbich  | Assessing the ecotoxicological effects of complex contaminant mixtures in Po river delta using burrowing responses in <i>Tapes philippinarum</i><br><br>Angela Sacchi | Monitoring territory dynamics of mexican anthrush ( <i>Formicarius moniliger</i> ) using song recordings and a wireless sensor network<br><br>Alexander Kirschel                        | Experimental evidence of kin recognition, cooperation and inbreeding in a cooperative breeder<br><br>Kathryn Arnold     |
| 15:50 | Mouse communal nesting: mother and peer interactions independently shape adult brain function and social behavior<br><br>Igor Branchi          | Daily activity pattern of european ground squirrel, <i>Spermophilus citellus</i> in high altitude<br><br>Yordan Koshev  | Seasonal patterns of singing in relation to breeding in the common nightingale luscinia megarhynchos<br><br>Kim G Mortega   | Contributions to a public good are maintained because the common enemy selects against free-riding<br><br>Andrea Bshary |
| 16:10 | Stressful dieting during the nestling and fledgling phase: implications on biometry, physiology and male song learning<br><br>Mariam Honarmand | Battle between two piscivorous fishes – who will win as the aquatic optical properties change<br><br>Lynn Ranaker   | Female calling? Differentiated song responses to male and female call playbacks in common nightingales ( <i>Luscinia megarhynchos</i> )<br><br>Silke Kipper                             | Discussion  |

|               |                      |                                 |
|---------------|----------------------|---------------------------------|
| 16:30 - 17:00 | Tea break            | Cloister                        |
| 17:00 - 19:00 | Posters              | Hall                            |
| 18:00 - 22:00 | ASAB Council Meeting | Hotel Europa, Corso Giovecca 49 |

**Sunday, July 18th 2010**

|               |   |          |
|---------------|---|----------|
| 9:00 - 9:10   | ASAB Medal<br>Michael Dockery<br><i>Presented by Jane Hurst, President of ASAB</i>  | E2+E3    |
| 9:10 - 10:10  | Plenary lecture<br>MARTIN WIKELSKI<br>Going wild, going global: rethinking behavioral biology in a new technological era<br><i>Chairman: Cristiano Bertolucci</i> | E2+E3    |
| 10:10 - 10:40 | Coffee break  | Cloister |
| 10:40 - 12:40 | Parallel sessions   |          |

|       | Symposium  | Symposium   | Oral session  | Oral session   |
|-------|--|---|---|--|
| Room  | E2   | E3  | D6  | D7   |
| Title | <b>Consequences of an Urbanizing World: from Physiology to Behaviour</b>               | <b>Endocrinology of cooperative behavior</b>  | <b>Cognition</b>  | <b>Sociality III</b>   |
| Chair | Henrik Brumm & Diego Gil   | Redouan Bshary & Katharina Hirschenhauser   | Igor Branchi  | Jutta Schneider  |
| 10:40 | From patterns to emerging processes in urban behavioural ecology<br>Paige Warren       | Hormones as mechanisms for cooperative behaviour?<br>Wolfgang Goymann   | Memory consolidation in great apes<br>Gema Martin Ordas   | Fickle feathered friends: do hens form lasting dyadic bonds?<br>Lisa Collins   |
| 11:00 | Evolutionary consequences of an urbanizing world<br>Jesko Partecke                     | An introduction to the evolutionary approach to altruism and cooperation: the basic concepts<br>Redouan Bshary    | The expression of orofacial movements reflects right hemisphere dominance for emotions in baboons<br>Catherine Wallez                   | Resource distribution and individual personality combine to induce social (and anti-social) behaviour in shore crabs<br>Colby Tanner |
| 11:20 | Dealing with urban noise: a comparison between oscine and suboscine birds<br>Diego Gil | Oxytocin triggers reciprocity in norway rats<br>Melanie Dietz   | It is hard to see food gone: do grey parrots and jackdaws rely on causal or social information to find hidden food?<br>Sandra Mikolasch | Does the winner always take all? Social context can change existing dominance hierarchies in shore crabs<br>Gul Deniz Salali         |
| 11:40 | Urban bird songs: vocal adaptations and unsolved questions<br>Henrik Brumm             | Does the use of tactile stimulation by cleanerfish has a role on its client fish stress response?<br>Marta Soares | The parrot and the string: attention, motivation, and efficiency in a string-pulling task<br>Christian Schloegl                         | Group navigation leads to increased path efficiency in the wood ant <i>Formica rufa</i><br>Mike Clease                               |

|       |  |   |   |   |
|-------|--|---|---|---|
| 12:00 | Stress response across a rural-urban gradient is linked to melanin-based coloration in feral pigeons <i>Columba livia</i><br><br>Helene Corbel | Does testosterone facilitate territorial behavior and song of male black redstarts ( <i>Phoenicurus ochruros</i> )?<br><br>Beate Apfelbeck    | Relational learning by capuchin monkeys ( <i>Cebus apella</i> )<br><br>Valentina Truppa   | Alarm, defence and coevolution: a case study in ants<br><br>Donato Grasso               |
| 12:20 | Urbanization affects density, spacing pattern and mating system of free-ranging domestic cats<br><br>Eugenia Natoli                            | Individual behavioral profile and specialization on building material transportation in mound-building mice<br><br>Maria Jose Hurtado Herrera | Simplicity versus complexity: behavioral plasticity and its adaptive roles in the cephalopod mollusc, <i>Octopus vulgaris</i><br><br>Graziano Fiorito | Collective departure and individual decision-making in sheep<br><br>Marie Helene Pillot |

12:40 - 14:10 Lunch Cloister  
 13:10 - 14:10 ASAB AGM E2

14:10 - 16:10 Parallel sessions

|       | Symposium  | Symposium  | Oral session   | Oral session  |
|-------|--|--|--|---|
| Room  | E2   | E3   | D6   | D7  |
| Title | <b>Cooperation across species: cognitive processes, tolerance and efficiency</b>                             | <b>Effects of immunity and oxidative stress on behavioural ecology, conceptual and technical relationships</b>   | <b>Time + Foraging</b>   | <b>Sexual selection</b>   |
| Chair | Franck Peron & Helene Möslinger  | Albert Ros & George A Lozano   | Augusto Foa'   | Laura Beani   |
| 14:10 | Cooperative string pulling in wolves ( <i>Canis lupus</i> )<br><br>Helene Moeslinger                         | Conceptual links between immune function and oxidative stress research in behavioural ecology: examples from vertebrate field studies<br><br>Jonathan Blount | <i>Cerithidea decollata</i> , a snail foreseeing the future?<br><br>Marco Vannini  | Mate choice in free-ranging domestic dogs ( <i>Canis lupus familiaris</i> )<br><br>Simona Cafazzo                   |
| 14:30 | Coordination and negotiation during a cooperative task in african grey parrots<br><br>Franck Peron           | The impact of impaired antioxidant defences on scent signalling in mice<br><br>Michael Garratt   | Does urbanization affect selective pressures and life-history strategies in common blackbirds?<br><br>Juan Diego Ibanez Alamo      | Heart rate as an index of increased metabolic output in a bird with a complex courtship display<br><br>Julia Barske |
| 14:50 | Increase in social differentiation in wild vervet monkeys cooperating experimentally<br><br>Riccardo Pansini | Immunity and oxidative stress in behavioral ecology: results and insights from species with alternative reproductive tactics/strategies<br><br>Albert Ros    | Stable individual differences in behavioural plasticity and sampling when playing social foraging games<br><br>Julie Morand Ferron | Agreement of mate choice between females does not require social copying<br><br>Emilie Beigneux                     |



