## V European Conference on Behavioural Biology

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

Programme

## Thursday, July 15th 2010

17:30 - 19:30 Registration Hall Welcome Reception Cloister

Friday, July 16th 2010

8:00 - 9:00 Registration Hall Setup Posters Hall

9:00 - 9:15 Opening of ECBB 2010 E2+E3

9:15 - 10:15 Plenary lecture E2+E3

ELISABETTA VISALBERGHI

Wild bearded capuchin monkeys use stone tools. A challenge to our ideas about

tool use in human evolution *Chairman:* Leonida Fusani

10:15 - 10:45 Coffee break Cloister

10:45 - 12:45 Parallel sessions

	Symposium	Symposium	Oral session	Oral session
Room	E2	E3	D6	D7
Title	Trends in cognitive primatology	Sex differences in hormones, brain and behaviour	Communication I	Parent-offspring
Chair	Elsa Addessi, Valerie Dufour & Valentina Truppa	Cornelia Voigt & Stefan Leitner	Marc Thery	Virginie Canoine
10:45	Are chimpanzees empathic? A proposal of the cognitive and emotional processing in chimpanzee empathy Sonja Koski	Sex differences in lateralization of behaviour and the potential role of androgens  Ton G G Groothuis	Effect of bee alarm pheromone on the behaviour of conespecifics towards risky flowers Ana L Llandres	Relationship between embryos and carrying mothers in amphibious crabs: the case of <i>Armases miersii</i> Riccardo Simoni
11:05	Visual illusions in great apes	Hormone-dependent differentiation of sexually attractive songs of canaries	Male topi antelopes alarm snort deceptively to retain females for mating	Divergent selection for egg testosterone content differentially influences growth rate and immune response in japanese quail
	Daniel Hanus	Manfred Gahr	Jakob Brojorgensen	Michal Zeman
11:25	How and what to learn from individual differences in social learning	Mate choice copying in zebra finches: sexes differ	Role of the temporal pattern of males' aggressive sounds in a cichlid fish	Who cares? Distribution of social care and alloparenting behaviours in the colonial rodent <i>Meriones unguiculatus</i>
	Judith Burkart	Klaudia Witte	Frederic Bertucci	Andrew Fulmer
11:45	What mediates personality variation in grey mouse lemurs ( <i>Microcebus murinus</i> )?	Sex differences in vocal behaviour and the song control system of a duetting songbird	Why do shrews twitter – communication or simple echo-based orientation?	Who determines fledging in the zebra finch?
	Melanie Dammhahn	Cornelia Voigt	Sophie Von Merten	Fritz Trillmich

Friday, July 16 ECBB 2010, Ferrara

12:05	Does learning influence the acoustic structure and meaning of alarm calls in a malagasy primate ( <i>Propithecus</i> spp.)?	Evolution of behavioural traits: sex- specific mortality selection on activity	Distinct howling in free- ranging packs of wolves (Canis lupus)	Variance in parenting tendency? Fostering behavior in galapagos sea lions
	Claudia Fichtel	Outi Vesakoski	Marco Zaccaroni	Birte Mueller
12:25	Can the unsuspected anticipatory abilities of <i>Cebus apella</i> and <i>Macaca tonkeana</i> be future planning?	Discussion	Sternal marking in mandrills: a chemical and ethological investigation	'La mamma' makes a difference – silver spoon effects in spotted hyenas
	Marie Bourjade		Stefano Vaglio	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	Cognitive abilities of invertebrates: questions and perspectives	Lateralised Behaviour	Audience effect	Sociality I
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	Forms of lateralisation in common wall lizards	Audiences, eavesdropping and communication in networks	A comparative perspective on delay discounting: from capuchin monkeys to other primate species
	Francesca Gherardi	Davide Csermely	Peter Mcgregor	Elsa Addessi
14:20	Information gathering by contestants during fights reveals cognitive abilities	Logical reasoning is best with a lateralised (and social) brain. The case of transitive inference in the domestic chick (Gallus gallus)	Cooperation in communication networks	Pattern and social dynamics of vigilance in redfronted lemurs (Eulemur fulvus)
	Robert Elwood	Lucia Regolin	Redouan Bshary	Peter Kappeler
14:40	Do decision-making ants compare alternatives?	Olfactory lateralization in homing pigeons: GPS-recorded tracks of birds navigating with unilateral olfactory inputs	Audience effect on alarm calls in the red- legged partridge	Learning to play nice: the emergence of prosocial behavior in pairbonded tamarins
	Elva Robinson	Anna Gagliardo	Rosaria Binazzi	Katherine Cronin
15:00	Social recognition, memory and learning in ants	Maternal testosterone affects sibling competition but not lateralization in the domestic	Postconflict affiliative interactions among bystanders in a tolerant species of macaque (Macaca tonkeana)	Exceeding the pair bond: social structure of jackdaw networks
	Patrizia D'Ettorre	Kristina Pfannkuche	Arianna De Marco	Christine Schwab

15:20	Does lack of discrimination equal lack of cognition?	Development and evolution of cerebral lateralization using fishes as model organisms	Effects of mate/familiar audience on intra/intersexual interactions in male domestic canaries ( <i>Serinus canaria</i> )	Once a friend always a friend? Common ravens recognize affiliative partners over a long time period
	Barry Magee	Anne Laurence Bibost	Davy Ung	Markus Boeckle
15:40	Stomatopod crustaceans: what is the connection between raptorial appendage type and the evolution of sensory systems and cognitive ability?	The influence of aging on the visual side-bias in pigeons	Does familiar audience facilitate novel object exploration? A study in great tits ( <i>Parus major</i> )	Patterns of agonistic intervention in the process of maternal rank inheritance among infant japanese macaques
	Roy Caldwell	Christiane Wilzeck	Mareike Stowe	Rizaldi

16:00 - 16:30 Tea break Cloister

16:30 - 17:30 Parallel sessions

	Oral session	Oral session	Oral session
Room	E2	E3	D6
Title	Models	Space	Sociality II
Chair	Wolfgang Goymann	Jesko Partecke	Cristiano Bertolucci
16:30	Relating mathematical models of pattern development to the habitats and behaviour of cats	Asymmetry in brains of homing pigeons with and without navigational experience	Behavioural consequences of cold exposure on males and females of a parasitic wasp.
	William Allen	Julia Mehlhorn	Joan Van Baaren
16:50	The influence of cognitive complexity, behavioral novelty and group density on social information cascades	How perceived threat increases synchronization in collectively moving animal groups	Status signalling in a european population of the paper wasp <i>Polistes dominulus</i>
	Bertrand Lemasson	Nikolai Bode	Jonathan Green
17:10	Learning in a game context: strategy choice by some keeps learning from evolving in others	Less is more: rearing density influences the development of behavioural life skills and survival of hatchery-released trout	Cuticular hydrocarbons or peptides: which one is responsibile for nestmate recognition in the paper wasp <i>Polistes dominulus</i> ?
	Frederique Dubois	Bart Adriaenssens	Claudia Bruschini

17:30 - 19:00 Posters Hall

Saturday, July 17th 2010

9:00 - 9:30 Tinbergen Award E2+E3

KATHERINA HIRSCHENAUER: Hormones as coordinators and facilitators of social

behaviour, excitement and success

Presented by Redouan Bshary, President of the Ethologische Gesellschaft

9:30 - 10:30 Plenary lecture E2+E3

JOAN STRASSMANN: A behavioral perspective on organismality in a microbe

Chairman: Augusto Foà

10:30 - 11:00 Coffee break Cloister

Saturday, July 17 ECBB 2010, Ferrara

11:00 - 13:00 Parallel sessions

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

13:00 - 14:30 Lunch 13:30 - 14:30 CESBB Meeting Cloister *E2* 

Saturday, July 17 ECBB 2010, Ferrara

14:30 - 16:30 Parallel sessions

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

Michael Dockery

Presented by Jane Hurst, President of ASAB

9:10 - 10:10 Plenary lecture E2+E3

MARTIN WIKELSKI

Going wild, going global: rethinking behavioral biology in a new technological era

Chairman: Cristiano Bertolucci

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

Sunday, July 18 ECBB 2010, Ferrara

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

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

14:10 - 16:10 Parallel sessions

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

Sunday, July 18 ECBB 2010, Ferrara

15:10	Cooperation enhancing effects of dynamical social networks in humans	Male parental effort, offspring quality and oxidative stress	Foraging behaviour and hibernation patterns in male and female common hamsters	Do sailfin molly males adjust sperm transfer to mate-choice copying?
	Dirk Semmann	Fabrice Helfenstein	Carina Siutz	Sabine Noebel
15:30	Affiliative relationships promote cooperation in free-ranging dogs	Are carotenoids really that important?	Detailed knowledge of the feeding ecology and spatial distribution of cheetahs reduces the farmer-cheetah conflict in namibia	Preference for human male body hair changes across the menstrual cycle and menopause
	Roberto Bonanni	Sandra Trigo	Bettina Wachter	Markus Rantala
15:50	The choice of neighbour: cooperation or conflict between nesting lesser kestrels (Falco naumanni) and jackdaws (Corvus monedula)?	Facial attractiveness signals the strength of immune function in men	Chronobiology of urban life: activity patterns of european blackbirds ( <i>Turdus merula</i> ) along an urban/rural gradient	Are female mate choice preferences affected by developmental stress?
	Daniela Campobello	Indrikis Krams	Davide M Dominoni	Katherine Buchanan

16:10 - 16:40 Tea break Cloister

16:40 - 18:00 Special Symposium E2

Title	The tradition of research in behavioral biology in Italy
Chair	Leonida Fusani & Enrico Alleva
16:40	Presentation
	Augusto Foà
16:45	A brief history of Italian ethological and biobehavioural studies
	Enrico Alleva
17:00	Discovering that pigeons home by smell: forty years of research in Pisa
	Anna Gagliardo
17:15	Ethology in Parma: from ants to men
	Paola Palanza
17:30	The University of Florence Group for the Study of Social Insects
	Stefano Turillazzi
17:45	The legacy of comparative psychology in North-East of Italy: between
	gestalt theory and classical ethology
	Giorgio Vallortigara

18:00 <b>-</b> <i>18:00 -</i>		Posters SIE Assemblea dei Soci	Hall E2
20:00 -	23:00	Buffet dinner	Sala San Francesco, Piazza San Francesco 7