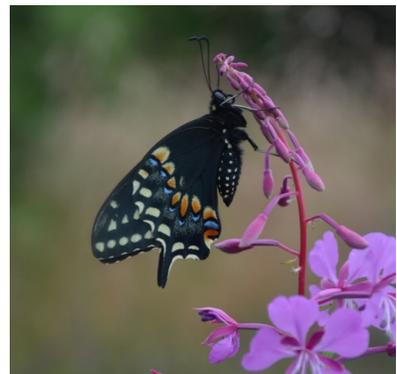


ISBE 2022

18th International Society for Behavioral Ecology Congress

CONFERENCE GUIDE



28th July – 3rd August
Stockholm Waterfront
Congress Centre
Stockholm, Sweden

#ISBE2022



@ISBE2022

www.isbe2022.com



Welcome!

Welcome to the 18th ISBE Congress in Stockholm, Sweden!

We are excited to welcome you to five days of amazing science that spans the spectrum of current research effort in behavioural ecology. And given the challenges of the past few years, we are committed to giving you every opportunity to discuss science in person with colleagues, while catching up with old friends and collaborators and making new ones. In a first for ISBE, the in-person meeting will be accompanied by our virtual platform ISBE+, giving delegates the opportunity to share their work as widely as possible with the behavioural ecology community. We wish you a productive and engaging conference and hope that you come away with a raft of ideas for future work and new collaborative ventures on the horizon!

Sincerely,
The ISBE 2022 Organizing Committee

Acknowledgments

Local Organizing Committee: John Fitzpatrick (Chair), Emily Baird, Valentina Di Santo, Carl Gotthard, Bengt Karlsson, Niclas Kolm, Cecilia Kullberg, Jan Alvar Lindencrona, Sören Nylin, Niklas Janz, Rhonda Snook, David Wheatcroft

Volunteers: Priscila Araújo, Frida Hildebrandt, Markus Karlgren Johansson, Linnéa Jürgensen, Dana Potthast, Kim Anh Sander, Nora Schwaerzler, Arezo Shamsgovara, Isabelle Siemers, Matilda Pembury Smith, Eleine Gomez Sundberg, Dimphy Van Boerdonk

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Scientific Program Committee: John Fitzpatrick (co-chair), Rhonda Snook (co-chair), Valentina Di Santo (co-chair)

Abstract Reviewers: Emily Baird, Alberto Corral-Lopez, Alessandro Devigili, Valentina Di Santo, John Fitzpatrick, Maxence Gerard, Carl Gotthard, Ariel Kahrl, Fanny-Linn Kraft, Sven Jakobsson, Niklas Janz, Cecilia Kullberg, Niclas Kolm, Sören Nylin, Björn Rogell, Rhonda Snook, Rachel Steward, Josefin Sundin, Zegni Triki, David Wheatcroft

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Invited Speakers: Redouan Bshary, Mariella Herberstein, Hanna Kokko, Toshitaka Suzuki, Jenny Tung, Yossi Yovel

The ISBE Executive Committee Members for their tireless support. In particular, ISBE 2022 would not have been possible without the input and assistance of Bob Wong, Rebecca Kilner, Trish Schwagmeyer, Andrew Cockburn, and Leigh Simmons.

General Information

Registration and Information Desk: The registration desk is located immediately to the right of the main entrance of the Stockholm Waterfront Congress Centre (see map below).

Medical Contacts: Call 1177 to obtain healthcare advice from a nurse and find out the nearest healthcare centre that can assist you. At the healthcare centre, you may be referred onwards if you need specialist medical care. If you are seriously ill, you should call the emergency number 112 and ask for an ambulance.

Information Desk: If you have any questions, please contact the registration/information desk, located to the right of the main entrance.

WiFi: There is an open WiFi connection that can be accessed by all delegates at the venue.

Lunch and Refreshments: All lunches will be served in M1 at level 4. Coffee and refreshments will be served in M1 at level 4 and on level 2.

Presentation Loading Room: All speakers can hand in and/or check their presentations at least 2 hours before their scheduled session in room 21.

Posters: All poster sessions will take place in M1 at level 4 and on the level 5 balcony.

Excursions and Activities

Excursions and activities will take place between ~14:00 and ~18:00 on Sunday 31st July

Boat to Drottningholm Palace, a UNESCO World Heritage Site – SEK 250

Delegates will be treated to a magnificent one-hour boat cruise through Lake Mälaren on a charming Edwardian-era vessel before arriving at Drottningholm Palace, a UNESCO World Heritage Site. Drottningholm Palace is the official residence of the Swedish Royal Family with several beautiful parks and green areas to experience.

Archipelago Boat Tour with Guide – SEK 345

See the best of the Stockholm archipelago! This is the perfect boat sightseeing tour when you are looking to discover the best and most beautiful parts of the Stockholm archipelago in a short period of time. Enjoy a journey full of beautiful attractions and fascinating stories while you relax and take in the famous scenery of the archipelago. You can also enjoy on-board cooked lunch in the beautiful dining room while listening to the guide.

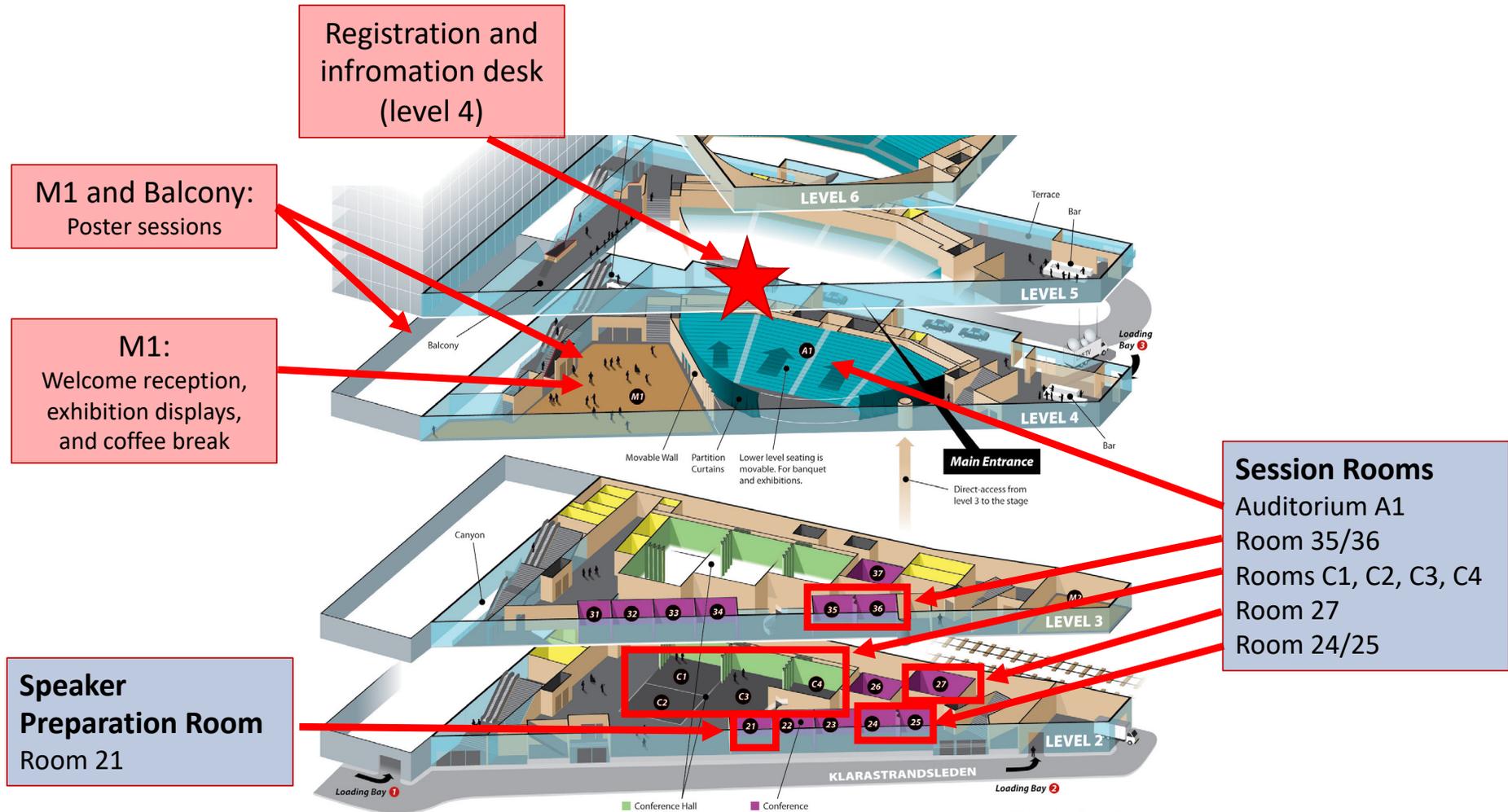
Hernö Gin Tasting – SEK 450

Hernö Gin is Sweden's first gin producer and the world's northernmost gin distillery. Hernö Gin is the most awarded craft gin producer, having been awarded the producer of *World's Best Gin* every year since 2015. Now is your chance to find out why! In this excursion, you will be treated to a blind tasting of a range of Hernö gins and learn about the history of gin and Hernö Gin. Space is limited to this excursion will be awarded on a first come basis.

ISBE Football Tournament

Forget the World Cup – the ISBE football tournament is the real premier global football event! The ISBE football tournament takes place during the mid-conference break. Participation is free. If you are interested in playing you can sign up during registration.

Stockholm Waterfront Congress Centre Map



Conference Overview

Time	Thursday 28/07	Friday 29/07	Saturday 30/07	Sunday 31/07	Monday 1/08	Tuesday 2/08	
8:45 – 9:00		Welcome					
9:00-10:00		Plenary Lecture Redouan Bshary	Plenary Lecture Jenny Tung	Plenary Lecture Yossi Yovel	Plenary Lecture Mariella Herberstein	Plenary Lecture Toshitaka Suzuki	
10:00-10:45		Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	
10:45-12:40		Contributed Talk Session	Contributed Talk Session	Contributed Talk Session	Contributed Talk Session	Contributed Talk Session	
12:40-14:10		Lunch	Lunch	Lunch and AG meeting	Lunch	Lunch	
14:10-15:25		Registration (15:00 – 18:00)	Contributed Talk Session	Contributed Talk Session	Excursions and Activities	Contributed Talk Session	Hamilton Lecture Hanna Kokko
15:25-16:10			Coffee break	Coffee break		Coffee break	Closing remarks (15:20-15:45)
16:10-17:45			Contributed Talk Session	Contributed Talk Session		Contributed Talk Session	Gala Dinner at Skansen
							(17:00 – midnight)
18:00 – 20:00			Welcome Reception			Poster Session 1	Poster Session 2

Plenary Speakers

All plenary lectures will take place in Auditorium A1

Redouan Bshary

University of Neuchâtel



Redouan Bshary is a professor in behavioural ecology at the University of Neuchâtel. He is interested in the evolution of helping between unrelated individuals. His work largely focuses on mutualisms between species, including his favourite study organism - the cleaner wrasse *Labroides dimidiatus*. His research shows that we need a diversity of concepts and corresponding mechanisms to understand how cheating can be kept in check. His recent work focuses on the cognitive and physiological mechanisms underlying cooperative decision-making.

Putting biology into cooperation theory

As evolutionary theory emphasizes competition, any forms of helping has attracted considerable attention. While altruistic helping can be readily explained with kin selection, a variety of concepts is needed to explain cooperation within and mutualism between species. Borrowing from economics, these concepts are typically illustrated with simple games, of which the iterated prisoner's dilemma is the most famous example. My aim is to share my current thoughts about why we need to get beyond such simple games and how to do that in order to integrate evolutionary game theory and empirical research. In social species, individuals often face uncertainty about their social environment and hence must use various information to choose appropriate behaviours (termed 'social competence'). Modelling such 'large world' problems includes the challenge to be explicit about mechanisms underlying decision-making. Empirical data, for example on learning dynamics, can inform such modelling. I will illustrate my points with thought experiments, stories, and a variety of examples, including our research on marine cleaning mutualism.

Redouan's plenary lecture will take place on
Friday 29th, July at 9am

Plenary Speakers

All plenary lectures will take place in Auditorium A1

Jenny Tung

Duke University

Max Planck Institute for Evolutionary Anthropology



Jenny Tung is an Associate Professor of Evolutionary Anthropology and Biology at Duke University and an affiliate of the Duke Population Research Institute and the Center for Genomic and Computational Biology. Her research focuses on the intersection between behaviour, social structure, and genes. She is particularly interested in how the social environment influences gene regulation, population genetic structure, and health and survival across the life course. She primarily pursues these questions in nonhuman primates and other social mammals, both wild and captive.

The social genome

Why does genomics need animal behavior? And what insights can genomics offer behavioral ecologists in return? This talk will offer one perspective on these questions, drawing on examples from my group's work on primates and other social mammals. I will discuss how genomic approaches reveal the mechanisms that connect social relationships to their consequences for health and fitness—thus linking complex behavioral interactions at the whole-organism level to changes in gene regulation at the molecular scale. I will also highlight the value of genetic data as a window into evolutionary history beyond that achievable through phenotypic analyses alone—and, reciprocally, the importance of behavioral observations for understanding patterns embedded in the genome. Together, this work stresses the importance of interpreting genomic information through an organismal lens.

Jenny's plenary lecture will take place on
Saturday 30th, July at 9am

Plenary Speakers

All plenary lectures will take place in Auditorium A1

Yossi Yovel

Tel Aviv University



Yossi Yovel is a professor in the School of Zoology and the Sagol School of Neuroscience at Tel Aviv University. He is interested in a wide range of fundamental behaviors, including long and short-range navigation, social networks and collective behavior, sensory decisions making, inter-sensory integration, vocal communication as well as bio-sonar and bio-inspired robotics. His research focusses on bats - extreme aviators and amazing navigators. This novel miniature technology, his work documents and models foraging decision in the real world from a bat's point of view.

Foraging decision making in the real world – the bat's point of view

Bats are extreme aviators and amazing navigators. Many bat species nightly commute dozens of kilometres in search of food, and some bat species annually migrate over thousands of kilometres. Studying bats in their natural environment has always been extremely challenging because of their small size (mostly <50 gr) and agile nature. We have developed novel miniature sensors allowing us to GPS-tag small bats, thus opening a new window to document their behaviour in the wild. We have used this technology to track bat pups over months from birth to adulthood. Following the bats' full movement history allowed us to show that they use novel short-cuts which are typical for cognitive-map based navigation. Using miniature microphones placed on the bats, we can also inferred and studied their foraging success and social behaviour. This novel technology thus allows us to document and model foraging decision making in real-life large scale over long time periods.

Yossi's plenary lecture will take place on
Sunday 31st, July at 9am

Plenary Speakers

All plenary lectures will take place in Auditorium A1

Mariella Herberstein Macquarie University



Mariella Herberstein is a professor in the Department of Biology at the Macquarie University. She is interested in all aspects of spider behaviour - from sexual selection through to predator-prey interactions, deception and mimicry. Her research highlights the extraordinary and often bewildering complexity of spider behaviour. This includes significant intra and inter-individual variation in web building behaviour, the ability to learn, and the ability to adjust the protein composition of silk. Her recent work focuses on how behavioural research can be scaled to incorporate variation across landscapes and by mapping behaviour into trait spaces.

Perspectives on behavioural ecology from natural history to trait-based approaches at a landscape scale

Behavioural ecology is a relatively young field of research with strong theoretical and empirical approaches, whilst grounded in natural history. One of the empirical challenges in behavioural ecology is to describe broad patterns of behaviour. On the other hand, a practical challenge is to apply fundamental behavioural knowledge to problems emerging from anthropogenic impacts. In this talk, I want to draw out the opportunities that arise from shifting the scale of scientific enquiry to large-scale comparative approaches- spatially, temporally or taxonomically- that systematically capture variation in key fitness traits. I will illustrate these from excellent examples in the literature and some of the work in my own group and research network. Finally, I would like to infuse this talk with perspectives on my own career, diversity and inclusion in research and, as per request, Eurovision.

Mariella's plenary lecture will take place on
Monday 1st, August at 9am

Plenary Speakers

All plenary lectures will take place in Auditorium A1

Toshitaka Suzuki

Kyoto University



Toshitaka Suzuki is an assistant professor in the Hakubi Center for Advanced Research at Kyoto University. He is primarily interested in the fields of animal behavior, communication, cognition, and language evolution. His research focuses on vocal communication of wild birds, often using the Japanese tit (*Parus minor*). His research has demonstrated key components of language in Japanese tits, including compositional syntax, grammatical rules, and visual mental imagery. His research on linguistic features in wild animals contributes to our understanding the origins and evolution of human language.

Animal linguistics: Exploring elements of language in non-human species

How does language evolve? Although different researchers may define language differently, uncovering the evolution of complex communication systems, such as human language, is a major challenge for science. One promising approach is to focus on the individual cognitive abilities required for human language and to seek their origins and similarities in non-human animals. However, field studies to identify linguistic capacities in wild animals have only just begun and its experimental paradigm remains to be developed. Here, I introduce my 16-years field studies exploring linguistic capacities in a wild bird species, the Japanese tit (*Parus minor*). This small bird species uses many different call types in a variety of contexts, such as predator encounters or social interactions, and often combines multiple call types into larger sequences. Field experiments have revealed that Japanese tits use these calls to refer to external objects (specific predator types) and to convey compositional messages (two-word phrases). These findings indicate that several linguistic capacities, such as referentiality and compositionality, once considered to be unique to humans, have evolved in birds. I introduce some novel paradigms for investigating linguistic capacities in wild animals and propose a novel scientific discipline, animal linguistics.

Toshitaka's plenary lecture will take place on
Monday 2nd, August at 9am

Hamilton Lecture

The Hamilton Lecture will take place in Auditorium A1

Hanna Kokko

University of Zurich



Hanna Kokko is a professor of evolutionary ecology at the University of Zurich. She is primarily a theoretician — but one who loves working with empiricists and also, in her own work, hopes to improve communication between these approaches. Her research focuses on a variety of topics, ranging from sexual reproduction and sex role evolution to space use, dispersal and migration, social evolution, interspecific interactions and life history theory. These endeavours have been recognized with prizes such as ASAB's Outstanding New Researcher Award, The British Ecological Society's Founders' Price, and The Oikos Per Brinck Award. She is a distinguished

invited member of academic societies in three different countries (Finland, Australia, and the USA) and will serve as the non-North American Vice President of the Society for the Study of Evolution in 2022-2023. In addition to her scientific work, she contributes to outreach in a variety of ways; her popular science book gave rise to various forms of recognition given jointly to the authors Katja Bargum and herself, such as the Finnish Cultural Foundation's Grand Prize, and the Finnish National Knowledge Dissemination prize.

From metaphors to theories and their tests

Metaphors can be a powerful tool to guide intuition, and when successful, they identify the essence of a problem, guiding theory development further and creating testable hypotheses. The obvious danger is that the essence of the problem is misidentified. I will present two examples from my recent work where an oversimplification of a problem may mislead, and reality proves much more exciting. The first example concerns the life-dinner principle in arms races – why one party (the one that has more to lose) might be expected to be 'ahead' in how well it is adapted to deal with the situation. The second example is empirical: how the black coucal, as studied by Ignas Safari and Wolfgang Goymann, can teach a lesson to theoreticians whose first instinct may be to think of trade-offs between mating and parenting in a very either-or fashion, when reality is more complex. My examples will, hopefully, also serve as a reminder that mathematics and statistics are just like other methods: there may be more powerful tools available than what one is so far acquainted with, and more can be achieved if one learns more about them.

Hanna's Hamilton lecture will take place on
Monday 2nd, August at 2:10pm

Speaker Timetable

Day 1 – Friday 29 July – Morning Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Cognition	Group living	Parental care	Sexual selection	Social behaviour	Behavioural Plasticity	Anthropogenic effects on behaviour	Predator-prey interactions
Session Chair	Alberto Corral Lopez	P Andreas Svensson	Sandra Steiger	David Shuker	Peter Kappeler	Michael Jennions	Emily Baird	Melanie Dammhahn
10:45-11:00	Jennifer A. D. Colbourne	Dustin Rubenstein	Marion Devogel	Ginny Greenway	Benedetta Catitti	Eva Serrano Davies	Tamal Roy	Bertille Mohring
	Limb lateralization in the Goffin's Cockatoo (<i>Cacatua goffiniana</i>)	The evolution of plural breeding societies	Is vocal communication a key to coordinated parental care in a monogamous seabird, the Little Auk (<i>Alle alle</i>)?	How does variation in the resource landscape influence mating dynamics in the insect <i>Narnia femorata</i> ?	Natal factors shape movement trajectories and social structure of prospecting immature raptors	Are behavioural and cognitive traits associated with diet composition and parental care during early development?	Size-selective harvesting fosters ontogenetic changes in learning and decision making in zebrafish, <i>Danio rerio</i>	Should I stay or should I go? Drivers of risk-taking behaviour of a long-lived bird under fluctuating predation risk
11:05-11:20	Alex Jordan	Andrew Radford	Timo Thuenken	Tom Keaney	Pierre-Olivier Montiglio	Eve Udino	Christina Elgert	Maxime Fraser Franco
	Testing the social brain hypothesis in the wild: social complexity and brain size in Lake Tanganyikan cichlids	Experimental evidence for delayed responses to cooperation and conflict in social species	Ecology of sexual conflict: Environmental variation and relatedness affect parental cooperation in a biparental fish	Selection on males and the risk of extinction	Multiplayer videogames as study systems to refine ecological and evolutionary theories of animal behavior	How to stay cool: early acoustic and thermal experience alters individual behavioural thermoregulation in the heat	The duration of artificial light defines sexual signalling in the common glow-worm	Predator-prey interactions in a virtual world: effects of experience and prey variability on predator foraging behavior
11:25-11:40	Taiga Kobayashi	Hanna M. Bensch	Axelle Delaunay	Janet L Leonard	Amiyaal Ilany	Dale Broder	Eleanor Gourevitch	Kanika Rawat
	Cleaner fish recognize their accurate body-size based on the mental image of self-body	Costs of competition in social mole-rat groups	Transition to siblinghood in a wild population of chacma baboon	Males: eager or desperate? A perspective from the Dollar Auction	From seconds to generations: what is the scale of social inheritance?	Does plasticity facilitate novel sexual signals	Sexual selection in a changing world: how climate, competition, and mating system shapes sexual selection in insects	The pupal dilemma: How does larval experience influence pupal antipredator behaviour?
11:45-12:00	Stephan A. Reber	Saverio Lubrano	Eva Ringler	Upama Aich	Isla Keesje Davidson	Sean Ehlman	Pizza Ka Yee Chow	Kasturi Saha
	The evolution of fundamental cognition in non-avian dinosaurs – studying deep time with extant phylogenetic bracketing	Mesotocin mediates social bonds and cooperative behaviour in a wild bird	Clutch cannibalism by adult poison frogs	Separating effects of paternal age & mating history: evidence for sex-specific paternal effect in eastern mosquitofish.	When to Woop: Acoustic and visual displays of the Ambon damselfish when faced with conspecific and predatory threats	Developmental feedbacks and the emergence of individuality	'Ripple' effects of urban environmental characteristics on cognitive processes in Eurasian red squirrels.	Sex-specific predation risk across scales in a multimodally duetting katydid
12:05-12:20	Alizée Vernouillet	Andrea Meltzer	Shana Caro	Joe Wilde	Julia Penndorf	Thomas Crouchet	Aparajitha Ramesh	Audrey-Anne Laurin
	Ine-quail-ities in group size and their effects on impulsive aggression and response inhibition	Intergroup conflicts reinforce social bonds among unrelated individuals in a group-living bird	Sex differences in parental responses to offspring begging	Calling in crickets: dealing with competition in your field	Parrot Politics: social cognition in an wild, urban dwelling parrot	Behavioral plasticity in context-dependent foraging in great tits along an elevational gradient	Human-induced isolation causes rapid behavioral divergence with genetic underpinning in resident and migrant stickleback	Can deer keep the coyotes at bay?
12:25-12:40	Djordje Markovic	Ettore Camerlenghi	Chay Halliwell	Johannes Krietsch	Mukta Watve	Cammy Beyts	You Zhou	Eamonn Wooster
	Manipulation of initial task difficulty determines whether sparrows develop social conformity or competitive diversity	Multilevel social structure predicts altruistic behaviour towards conspecifics in a cooperatively breeding songbird	Cooperation, conflict and the coordination of care in the Long-tailed tit.	Extrapair paternity in a sequentially polyandrous shorebird: Limited evidence for the sperm storage hypothesis	No evidence for rent payment by helpers in chestnut-crowned babblers during a removal experiment	The effect of heterospecific and conspecific competition on individual differences in tungara frog tadpole behaviour	How does noise disrupt alarm call communication in birds?	Red foxes avoid apex predation without increasing fear

Speaker Timetable

Day 1 – Friday 29 July – Afternoon Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Acoustic communication	Movement and collective behaviour	Conservation and behaviour	Cooperation	Brood parasitism	Sexual signals	Dispersal	Social learning
Session Chair	Ally Harari	Niclas Kolm	Oded Berger-Tal	Peter Buston	Rebecca Kilner	Nathan Morehouse	Rhonda Snook	Zegni Triki
14:10-14:25	<i>Yitzhak Ben Mocha</i>	<i>Stefan Popp</i>	<i>Fay Morland</i>	<i>Satoshi Awata</i>	<i>Hannah Scharf</i>	<i>Menno van Berkel</i>	<i>Allyssa Kilanowski</i>	<i>Carla Simões-Henriques</i>
	Intentional use of attention-getters facilitates cooperative interactions in wild birds	Searching ants combine systematic meandering and correlated random walks at different spatial scales	Nest microclimate, incubation behaviour and reproductive success of a threatened bird in a restored forest sanctuary	Field and experimental evidence of mutual food-provisioning behaviors in goby-shrimp symbiosis	Host parents respond to parasitic nestling alarm calls regardless of experience with brood parasitism	How does the building ability of great bowerbirds affect the geometry- and signal honesty of their bower court?	Individuality in dispersal that is correlated with life history traits has implications for metapopulation dynamics	A specialized genetic architecture for social learning in <i>Drosophila melanogaster</i>
14:30-14:45	<i>Aya Marck</i>	<i>Ashley Townes</i>	<i>Fiona Backhouse</i>	<i>Thomas Hitchcock</i>	<i>Romina Scardamaglia</i>	<i>Lutz Fromhage</i>	<i>Vincent Calcagno</i>	<i>Sonja Wild</i>
	Vocal repertoire, genetic structure, and dialect variations of the White Spectacled Bulbul (<i>Pycnonotus xanthopygus</i>)	The effects of habitat characteristics and density-dependence on the spatial distributions of spawning sockeye salmon	Habitat fragmentation depletes the cultural richness of Albert's lyrebird mimetic song repertoires	Paternal genome elimination promotes altruism in viscous populations	Evidence for social pair bonds in an obligate brood parasite	The balance model of honest sexual signalling	From behavior to dispersal: density-dependence and the mechanics of spatial spread in groups of parasitic micro-wasps	Disentangling learning pathways across development in great tits (<i>Parus major</i>)
14:50-15:05	<i>Matteo Sebastianelli</i>	<i>Eduardo Sampaio</i>	<i>Dianne Brunton</i>	<i>Kelly Stiver</i>	<i>Nicholas Antonson</i>	<i>Carl Soulsbury</i>	<i>April Robin Martinig</i>	<i>Thibaud Gruber</i>
	Continent-wide patterns of song variation predicted by classical rules of biogeography	Collective behavior and dynamics during interspecific collaborative hunting between octopus and multiple fish species	Integrating avian behaviour and conservation in the Anthropocene; changing song cultures in Saddleback translocations.	Partnership stability in <i>Symphodus ocellatus</i> male cooperative dyads relates to subordinate partner attention to females	Niche construction through a Goldilocks principle maximizes fitness for a nest-sharing brood parasite	Signalling under rapidly changing illumination in lekking black grouse <i>Lyrurus tetrix</i>	The new kid on the block: Immigrant males win big whereas females pay fitness cost after dispersal	Making space for affect in the study of animal communication and social learning
15:10-15:25	<i>Juliane Gaviraghi Mussoi</i>	<i>Elisa Perinot</i>	<i>Roman Motyka</i>	<i>Yoav Ram</i>	<i>Martin Reichard</i>	<i>Sophia Anner</i>	<i>Johannes Stökl</i>	<i>Vedrana Šlipogor</i>
	Importance of sleep for vocal communication in adult birds	In-wake flying reduces energy expenditure in free-flying Northern bald ibises	Live in rocks – grow faster: effects of bottom substrate type on behavior and growth of juvenile European eel	Cultural evolution of cooperation: the role of non-vertical transmission	Evolutionary and lifetime arms races between cuckoo catfish and their mouthbrooding cichlid hosts	Varied female and male courtship behavior facilitated the evolution of a novel sexual signal	Dispersal from Natal Patch Correlates with the Volatility of Female Sex Pheromones in Parasitoid Wasps	Common marmosets learn socially via video demonstrations under captive and natural conditions

Speaker Timetable

Day 1 – Friday 29 July – Evening Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Sensory ecology	Host-parasite interactions	Animal personality	Sexual selection	Climate change and behaviour	Foraging	Migration	Life histories
Session Chair	Innes Cuthill	Kenyon Mobley	Sasha Dall	Sara Calhim	Niclas Kolm	Sören Nylin	David Wheatcroft	Jan-Åke Nilsson
16:10-16:25	Roksana Wilson How the spectral composition of a white light influences its attractiveness to biting flies	Aaron Wikle Behavioral and Neurophysiological Responses of a Parasitoid to Novel Host Signals	Mélissa Peignier Opposing effects of personality traits on mating and cross-generational reproductive success	Samuel Snow Fighting Isn't Sexy in Lekking Greater Sage-grouse (<i>Centrocercus urophasianus</i>)	Aneta Arct Effects of elevated nest box temperature on incubation behaviour in the collared flycatcher	Lysanne Snijders Social foraging going wild: social facilitation of patch discovery in Trinidadian guppies	Violeta Caballero Lopez Transposon copy number correlates with migratory behaviour in willow warbler	Euan A. Young Offspring reproductive success is a greater determinant of human genetic contributions than offspring number or survival
16:30-16:45	Miriam Scriba Red vision in terrestrial habitats: seeing red is of limited use without spectral filters	Enikő Csata Non-lethal fungal infection reduces aggression towards strangers in ants	Birgit Szabo Fear of the new? Geckos hesitate to attack novel prey, forage near objects and enter a novel space	Eleanor Bath Sex ratio and the evolution of aggression in fruit flies	Camille Morerod The effects of coral surface roughness on coral reef fish locomotion	Purabi Deshpande Native fauna interact differently with native and alien trees in a tropical megacity	Wendt Müller Consistent individual migration strategies in times of change	Patrick Bergeron The feast and the famine: Spring body mass variations and life-history traits in a pulse resource ecosystem
16:50-17:05	Marie-Christin Hardenbicker The role of natural image statistics in the evolution of courtship signals	Franziska Andrea Brenninger Does double mean trouble? – Parasitic manipulation of reproduction and dispersal	Reyes Salas The ontogeny of behavioural phenotypes in a colonial breeding species: early social life shapes offspring's phenotype.	David Shuker Endurance rivalry: what is it, and how common is it?	Emily Baird Short-term exposure to heatwave-like temperatures affects learning and memory in bumblebees	Mario B. Pesendorfer What makes a hoarder? The ecology and evolution of food hoarding in birds	Kristaps Sokolovskis Migratory Behaviour and what we know of its genetic basis in Willow Warblers	Mia Lybkær Kronborg Nielsen Kinship dynamics and the evolution of menopause in mammal-eating killer whales
17:10-17:25	Elizabeth Phillips UV Vision in an Invasive Aquatic Predator, the Lionfish (<i>Pterios volitans</i>)	Valeria Arabesky Get out of my web! – widow spider egg sac guarding behaviors against the parasitoid wasp <i>Philolema latroducti</i>	Natasha Gillies Personality blows: boldness predicts foraging responses in response to wind in wandering albatrosses	Masaru Hasegawa Cute males are tolerated by neighboring rivals in the barn swallow	Lorenzo Galletta Avian incubation in the heat: heatwaves, parental behaviour, and their influence on the eggs	Marion Chatelain Food in the city: urban-driven diet shift in great tits and blue tits	Zephyr Züst Hidden Movements of Long-Distance Migrants: Pre-Migratory Flights in the Northern Wheatear	Mirjam Borger Putting life history theory to the test - the estimation of reproductive values from field data
17:30-17:45	Nigel Anderson Testosterone makes agonistic displays more threatening by exploiting receiver perceptual bias	Tony Rinaud Unraveling early-life consequences of blood parasite infections on hosts in a wild raptor-Leucocytozoon system	Isabel Damas-Moreira An invasive lizard with a strong temperament	Matthew Kustra Temporal dynamics of sneak spawning in a fish with multiple alternative reproductive tactics.	Manfred Milinski Decisions to migrate to a rich country upon simulated climate events – a behavioral experiment	Alexandre Barraud Impact of pesticides on the feeding behaviour of bumblebees	Sinchan Ghosh Investigating the evolutionary trend in migratory passageway and the reproduction of <i>Merops philippinus</i>	Abhishek Meena Sex-specific life-history strategies in <i>Drosophila prolongata</i>

Speaker Timetable

Day 2 – Saturday 30 July – Morning Session

Session	Auditorium A1 Sexual selection	Room C1 Acoustic communication	Room C2 Parental care	Room C3 Animal personality	Room C4 Cognition	Room 24/25 Behavioural genetics/genomics	Room 27 Movement	Room 35/36 Host-parasite interactions
Session Chair	Lutz Fromhage	László Zsolt Garamszegi	Sigal Balshine	Marcus Michelangeli	Pizza Ka Yee Chow	Alastair Wilson	David Wheatcroft	Manfred Milinski
10:45-11:00	Ingo Schlupp	Soniya Devi Yambem	Franz J. Weissing	Paolo Panizzon	Esha Haldar	Margarida Barcelo-Serra	Mina Ogino	Václav Jelínek
	Mating preferences and the hybrid origin of an asexual fish, the Amazon molly	Decoding the babbling of Jungle Babblers: a study on vocal repertoire	The joint evolution of parental effort and the primary sex ratio	Effect of the environment on the development of laterality and personality in the Three-spined Sticklebacks	Action-level-imitation of arbitrary motor behaviours in Ara macaws	Towards the genetic basis of marine fish chronotypes	Group-level specialisation in space uses within a multilevel society	Fast and furious: host aggression modulates behaviour of brood parasites
11:05-11:20	Cristina Tuni	Taina Conrad	Claire J Taylor	Gábor Herczeg	Naama Aljadeff	Alexander Kirschel	Pratik Rajan Gupte	Mary L. Westwood
	Silk-borne chemicals of spider nuptial gifts elicit female gift acceptance	The important role of parental acoustic signaling during brood care in the burying beetle <i>Nicrophorus vespilloides</i>	Mothers breeding in groups are better able to buffer their young against extreme temperatures	Are behavioural type and behavioural predictability linked? A meta-analysis.	Task-dependent reversal learning dynamics challenge the reversal paradigm of measuring cognitive flexibility	Leveraging ancestry to investigate the genomics of bird song	Novel pathogen introduction rapidly alters the evolution of movement, restructuring animal societies	Circadian shifts in singing in a parasitised population of crickets suggest temporal escape from infection
11:25-11:40	Magdalena Matzke	Simon Grendeus	Andreas Meltl	Jack Thorley	Harry F. Suter	Sifiso M. Lukhele	Gabriel Munar-Delgado	Michal Segoli
	Effects of pre-mating and post-mating selection on reproductive trait evolution in field crickets	American alligators recognize their names independent of caller – speech normalization in a crocodilian	Rethinking evolutionary relationships – Novel insights into the development of mating behaviour in birds	Does personality mediate the reproductive consequences of broad climate phenomena?	The influence of within-group and out-group interactions on cognitive performance	Investigating a carotenoid-based plumage colour polymorphism in <i>Pogonius tinkerbirds</i>	Adaptive population divergence and reproductive isolation in a sympatric setting due to Matching Habitat Choice	Nest provisioning with parasitized caterpillars by female potter wasps: Costs and potential mechanisms
11:45-12:00	Nathan Burke	Stephen A. Tyndel	Alexandra Childs	David Westneat	Claudia Zeirtrög	Richard Merrill	Anat Levi	P. Andreas Svensson
	Male coercion and female injury in a sexually cannibalistic mantis	Social mechanisms behind group-level vocal signatures in an open-ended vocal learner	My mum is better than yours: Mothering tactics in Galápagos sea lions and their effect on pup behaviour and personality	The integration of personality and plasticity: A test of alternatives	A look through the eyes of a dinosaur - Gaze following in archosaurs as a window to social cognition of dinosaurs	Adaptive introgression of visual preference alleles in tropical butterflies	Homing through ecological barriers of the Balkan pond turtle in a wetland ecosystem	Is my manipulation good enough? Cestode-infected fish appear generally fearless.
12:05-12:20	Daisuke Kyogoku	Hugo Loning	Georgia Lambert	Lauren Harrison	Masanori Kohda	Tina Barbasch	Matthias Loretto	Lucinda Aulsebrook
	Sexual selection favoured higher offspring production via evolution of both male and female traits	Singing by zebra finches in the wild: soft, social and non-competitive	Resource access buffers against effects of current reproduction on future ability to provide care in a burying beetle	A meta-analysis of sex differences in animal personality: no evidence for the greater male variability hypothesis	Fish recognize self in a mirror via self-face recognition not kinesthetic visual-matching	Mechanisms underlying the conflict between courtship and aggression in threespined sticklebacks	Do ravens follow large carnivores?	The impacts of pharmaceutical pollutants on host-parasite dynamics
12:25-12:40	Stefan Lüpold	Lukas Schad	Johana Goyes Vallejos	Marion Dellinger	Kento Kawasaka	Beniamino Tuliozi	Romain Dejeante	Tiago G. Zeferino
	Disentangling the context-dependent dynamics in pre- and postcopulatory sexual selection in <i>Drosophila prolongata</i>	Alarm barks of male vervet monkeys as vocal displays of male quality	Effect of female removal on offspring survival in a glass frog	'Same same but different': Eco-Evo-Devo patterns of personality compared between two sympatric morphs of Arctic charr	Facial components in cichlid fish: Study of first-order relations information	Genetic correlation of direct and indirect components of social dominance with morphology and fitness traits	Females and cubs matter: a spatial perspective of the importance of social interactions for male lions	Anopheles mosquitoes self-medicate to fight infections: consequences for life history traits and oxidative stress

Speaker Timetable

Day 2 – Saturday 30 July – Afternoon Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Conservation and behaviour	Collective behaviour	Behavioural plasticity	Tool use and innovation	Dispersal	Reproductive Behaviour	Reproductive tactics, strategies and morphs	Physiology and behaviour
Session Chair	Amos Bouskila	Alex Jordan	Daiqin Li	Niclas Kolm	Karl Gotthard	Aneesh Bose	Janet Leonard	Maxence Gérard
14:10-14:25	Michael Weiss	Damien Farine	Karem Lopez-Hervas	Berenika Mioduszewska	Svea-Sophie Zimmermann	Nikolaos Smit	Kora Klein	Amelia Munson
	Using association networks as a behavioural indicator in killer whale conservation	Collective decision-making in vertebrate groups 'on the move'	Wild mice behavioral plasticity as an adaptive mechanism to changes in food quality	Treasure islands: Foraging ecology and the emergence of tool use in wild Goffin's cockatoos	High activity in the nest is associated with increased exploration and early emigration in juvenile Golden eagles	Sexual intimidation and female social bonds in wild mandrills	a search for frequency-dependence: modelling a female-limited polymorphism in attractiveness	Effects of changing temperatures on social behaviour via effects to metabolism in the common minnow (<i>Phoxinus phoxinus</i>)
14:30-14:45	Ron Efrat	Clare Doherty	Samyuktha Rajan	Mark O'Hara	Arianna Passarotto	Ségolène Delaitre	Peter Schausberger	Arisa Hosokawa
	Both early life and task-specific experience affect migratory proficiencies in Egyptian vultures (<i>Neophron percnopterus</i>)	Experimentally-seeded social information: impacts on individual and collective behaviour in the wild	Social and genetic determinants of song variation in pied flycatchers	The use of a tool set by wild Goffin's cockatoos	Dear partner or dear territory? Causes and fitness consequences of breeding dispersal in a territorial bird of prey	Olfactory detection of plant volatiles influences behavioral and reproductive decisions of a passerine bird.	Transgenerational plasticity of alternative reproductive tactics in spider mites	Effects of ageing on slime mould behaviour and physiology
14:50-15:05	Ellis Langley	Gloriana Chaverri	Rosie J Lennon	Barbara C Klump	Julia Hatzl	Sophie Bennett	Xiang-Yi Li Richter	Hanja Brandl
	A new assay for breeding pair compatibility of a tool using bird that is extinct in the wild	Acoustic communication for group coordination on the wing	Behavioural changes detected in free-living birds for up to three weeks following an immune challenge	Bin-opening and bin-protection: Innovation in a human-wildlife conflict	Food intake drives skill development and carries over to affect timing of emigration in a large raptor species	Drivers and fitness consequences of the occupancy of breeding sites in the non-breeding season in a colonial seabird	Coevolution of female fidelity and male help in populations with alternative reproductive tactics	The consequences of stress and stress transmission in social groups of birds
15:10-15:25	Daniel Blumstein	Elizabeth Murphy	Alexandra Cones	Ivo Jacobs	Steve Whalan	Federica Dal Pesco	Maria Albo	Jennifer Grindstaff
	The rules of attraction: the necessary role of animal cognition in explaining conservation failures and successes	Kinematics, hydrodynamics, and energetics of swimming in a school	Multidimensional phenotypic plasticity: hierarchical sources of variance in the reaction norms of avian embryos	Pyrocognitive ravens use tools to retrieve food near novel objects and fire	The habitat of sponges is underpinned by directed behavioural choices of motile larval stages to light.	MALE-MALE SOCIAL BONDING, COALITIONALY SUPPORT AND REPRODUCTIVE SUCCESS IN WILD GUINEA BABOONS	Deceptive worthless nuptial gifts can become the dominant mating tactic in spider populations	Impact of early life stressors on behavior and stress resilience in adulthood

Speaker Timetable

Day 2 – Saturday 30 July – Evening Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Life histories	Cooperation	Conservation and behaviour	Sexual selection	Social behaviour	Method development for studying behaviour	Predator-prey interactions	Foraging
Session Chair	Mats Olsson	Ben Hatchwell	Carl Soulsbury	Melissah Rowe	David Zonana	Zegni Triki	Eva Ringler	Anders Brodin
16:10-16:25	Yael Lubin	Anna Dewar	Grace Nolan	Sophia Fitzgerald	Annemarie van der Marel	Camille N. M. Bordes	Karin Kjærnsmo	Brian Trevelline
	Sib-mating enhances fitness in a haplodiploid beetle	Does horizontal gene transfer stabilize cooperation in bacteria?	Natural history films generate more online interest in depicted species than in conservation messages	Female Japanese rhinoceros beetles may evaluate male short-term body condition via newly described courtship display	Experimental perturbations alter social dominance patterns in monk parakeets	What are the odds? Using animal triads to assess dyadic social bonds.	Cepaea snail camouflage in the eyes of their predators	The gut microbiome influences host diet selection behavior
16:30-16:45	David López-Idiáquez	Rebecca Branconi	Leon Green	Trond Amundsen	Ben Hatchwell	Matthew Silk	Sandra Winters	Svenja Stoehr
	Sex-dependent integration of personality, colouration, and morphology	Ecological constraints influence cooperation and conflict in the humbug damselfish <i>Dascyllus aruanus</i>	Understanding the local adaptation and spread of an invader through reproductive traits	Climate-driven dynamics of operational sex ratio, sexual selection and life history	Bad decisions in social birds: Is adaptive choice of social partners constrained by discrimination ability?	Demographic models of social networks	Hiding snails: using machine learning to understand optimal camouflage	Picky eaters: Stability of individual foraging strategies and resulting fitness consequences in Galápagos sea lions
16:50-17:05	Anja Guenther	Theresa Rueger	Annabel Dorrestein	Viktor Kovalov	Shannon Luepold	TRINA ROY	Alexander Kotrschal	Max Ringler
	Does a change in food quality induce an adaptation in a pace-of-life syndrome within three generations?	Cooperation and conflict in anemonefish societies	Social structure across the roost sites of a Critically Endangered small-island endemic: The Christmas Island flying-fox	Cheap female choice and costly male display - coevolution on leks	Habitat detection, habitat assessment, or mating benefits: what drives conspecific attraction in a nomadic songbird?	A new tool to study social and behavioral plasticity of cooperative breeding birds	Cognition contra camouflage: how the brain mediates predator-driven crypsis evolution	Compost Dwellers: Strategic feeding and use of indirect cues in actively foraging poison frogs
17:10-17:25	Mats Ittonen	Peter Buston	Yael Lehnardt	Maria Santacà	James Brooks	Juliano Morimoto	Charlotte Perrault	Myriam Knöpfle
	Recurrent local adaptation to seasonal cues at the fronts of two independent, climate-induced butterfly range expansions	Ecological and social constraints combine to promote evolution of non-breeding strategies in clownfish	Nowhere to hide: mapping the impact of traffic noise on animal behavior outside urban areas and in protected habitats	Disentangling olfactory and visual cues and the role of compatibility during mate choice in the zebrafish, <i>Danio rerio</i> .	Perceived outgroup threat elicits ingroup cohesion in chimpanzees	Holey niche! A novel method to find holes in niche hypervolumes using persistence homology	Active use of camouflage and behavioral responses to biotic stressors in tawny owls (<i>Strix aluco</i>)	Tactile stimulation as a behavioural mechanism to increase access to prey in a marine producer-scrounger system
17:30-17:45	Sara Calhim	Ming Liu	Toby Champneys	Anyelet Valencia Aguilar	Tom Ratz	Jordan Martin	Min Tan	Antoine Gekière
	Male and sperm anhydrobiosis recoveries are not concurrent in tardigrades	Manipulative cheating and the persistence of cheaters in social organisms	Does competition with invasive Nile tilapia threaten native fish species in Tanzania?	Does parental care influence testes sizes in glassfrog species?	The rival widows: how prey availability affects responses to competition from conspecifics in a black widow spider	Nonlinear selection on behavioral reaction norms: Theory, methods, and applications to humans and house sparrows	Revealing the effect of movement on background matching using jumping spiders as predators	Specialized Metabolites in Floral Resources: Effects and Detection in Buff-Tailed Bumblebees

Speaker Timetable

Day 3 – Sunday 31 July – Morning Session

Session	Auditorium A1 Social behaviour	Room C1 Pollution and behaviour	Room C2 Animal personality	Room C3 Cognition	Room C4 Sexual selection	Room 24/25 Communication	Room 27 Contests and competition	Room 35/36 Predator-prey interactions
Session Chair	Andrew Radford	Bob Wong	Gabor Herczeg	Alexander Kotrschal	Robin Tinghitella	Fanny-Linn Kraft	Karl Gotthard	Johanna Mappes
10:45-11:00	Miya Warrington Lovers, not fighters: Docility influences fitness in male Cape ground squirrels (<i>Xerus inauris</i>)	Jake Martin Context is Key: Social Environment Mediates the Impacts of a Psychoactive Pollutant on Shoaling Behavior in Fish	Gergely Horváth Links between short-term environmental differences, individual state and behavioural variation in Carpetan rock lizards	Claudia Fichtel On the link between cognition and fitness in wild gray mouse lemurs, <i>Microcebus murinus</i>	David M Zonana Courting death or reproductive success? The relative fitness of rapidly evolving Pacific field cricket morphs	Md Kawsar Khan Costs and benefits of ontogenetic colour change	Jonathan Green Reproductive costs of female-female competition in a harem-breeding cichlid	David Kikuchi Socially transmitted innovations in dynamic predator-prey systems
11:05-11:20	Delphine De Moor Unravelling the evolution of social relationships: a comparative approach across macaque species	Erin McCallum Chemicals and hierarchies: Social status affects competition and stress physiology in fish groups exposed to a pollutant	Melanie Dammhahn Thoroughness pays off?!	Niclas Kolm Some cognitive benefits from evolving a larger telencephalon in the guppy (<i>Poecilia reticulata</i>)	Hannah Ogden How do sex-ratio and environmental complexity modulate sexual selection and sexual conflict?	Nora Carlson Anti-predator communication networks in mixed-species flocks: who listens and who doesn't?	Javier Abalos Melanin patches and dynamic visual signals influence dominance, space use and reproductive success in male wall lizards	Sam J. England The electric ecology of predator-prey interactions: electroreception in caterpillars
11:25-11:40	Dominique Treschnak Auditory monitoring of female Guinea baboon by their males	Zuzanna Jagiello The extended avian urban phenotype: impact of anthropogenic debris pollution on nest design and fitness	Rosanne Beukeboom The correlation of lab and semi-natural personality estimates and its influence on movement and survival of Arctic charr	Rie Henriksen Proportional Cerebellum Size Predicts Fear Habituation in Chickens	Ally Harari Males' impact on the evolution of monandrous mating strategy in a moth	Marc Gilles Olfactory camouflage and communication in birds	Wei Zhou Proportional mutual assessment of weaponized chelicerae in male contests of the jumping spider <i>Myrmarachne maxillosa</i>	Jolle Jolles Both Prey and Predator Features Predict Predation Risk and Survival of Schooling Prey
11:45-12:00	Zitan Song Evolution of social organization: phylogenetic analyses of ecology and sexual selection in weavers	Rochelle J. Meah The impacts of light pollution on the timing and successful orientation of navigating, nocturnal arthropods	Bawan Amin Juvenile personality in free-ranging fallow deer: Is bold better?	László Zsolt Garamszegi Evolution of relative brain size after domestication and subsequent selective breeding for function in the dog	Kavita Isvaran Sexual selection in the anthropocene	Dominic Wright Genetic Basis of Structural Iridescence in Chicken Feathers	Zegni Triki Oxytocin has 'Tend-and-Defend' Functionality in Group Conflict Across Social Vertebrates	Alice Auersperg Predator neophobia in Goffin's cockatoos
12:05-12:20	Erin Siracusa Within-individual changes reveal increasing social selectivity with age in rhesus macaques	Juho Jolkkonen Artificial light enhances nocturnal escape behaviour of foraging waders	Alastair Wilson Is divergence really adaptive? A comparative view of behavior and personality differences across guppy populations	Michael Griesser Parental provisioning drives brain size in birds	Maria-Cristina Lorenzi Is the cost of reproduction higher for males or females? Evidence from hermaphrodites (two sexes in the same body)	Ambre Salis Greats tits respond to mobbing calls of an unfamiliar species sharing similar syntax	Sasha Dall Learning under competition, the evolution of preferences and the development of behavioural specialisation	Josefin Sundin Males show their best side revisited – effects of predation pressure on laterality in wild guppies
12:25-12:40	Eleonore Lebeuf-Taylor Predation of adults drives the evolution of plural breeding: a comparative case study of Nearctic jay populations	Nikolas Willmott Poisoning the web: behavioural and other fitness effects of pollutants on a nocturnal orb-web spider		Jasmine Hardie Social and ecological factors predict variation in brain size across birds	Lennart Winkler Impact of population density on sexual selection in the red flour beetle	Yiftach Golov The effect of bio-physical conditions on the navigation performance of a nocturnal moth		Pedro Leote Effects of competition on intra-guild predation and biological control at a fine temporal scale

Speaker Timetable

Day 4 – Monday 1 August – Morning Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Cognition	Method development for studying behaviour	Acoustic communication	Social behaviour	Sexual selection	Anthropogenic effects on behaviour	Aposematism and mimicry	Speciation and hybridization
Session Chair	Susan Healy	David Wheatcroft	Britta Walkenhorst	Jordan Martin	Stefan Lüpold	Michael Bertram	Maxence Gérard	Richard Merrill
10:45-11:00	Theo Robert	Markus Conrad	Jan Jedlikowski	Marko Glogoški	Alessandro Devigili	Beatriz Diaz Pauli	Daiqin Li	Catarina Vila Pouca
	Cue position in 3D space biases selective attention in the praying mantis, <i>Sphodromantis lineola</i>	A new approach to maximize outbreeding and minimize inbreeding depression in animal populations reared in the lab	Dear-enemy effect between two sympatric bird species	Sociability in dominant and subdominant sympatric lizard species	Intra-ejaculate sperm selection via female reproductive fluid in the zebrafish	Fishing size-selection indirectly also selects on behaviour	Empirical demonstration of the dead-leaf and bird-dropping masquerade	Can hybridization promote phenotypic variation in cognition and brain morphology?
11:05-11:20	Camilla Soravia	André C. Ferreira	Mylene Mariette	Alberto Corral-Lopez	Emily Rebecca Alison Cramer	Jack A. Brand	James Barnett	Liran Sagi
	Older females show lower general cognitive performance but higher breeding output in a cooperative breeder	Individual identification of wild birds in open populations using deep learning	How prenatal sound programs avian development: changes in mitochondrial function and food intake	Sociality and cognition: behavioural and genomic analyses in guppies artificially selected for higher coordinated motion	The shape of selection on sperm: the role of promiscuity and among-female variation	Biological invasions as a selective filter driving behavioural divergence	Size-dependent aposematism and camouflage in a potential Müllerian mimic	Isolation by time in a terrestrial vertebrate: potential mechanism for sympatric speciation
11:25-11:40	Shuge Wang	Holly M English	Alex Jiang	Tamao Maeda	Alexandra Glavaschi	Mayuko Nomoto	Karen Cheney	Rimon Levin
	Fast generalisation at the beginning of life: the effect of predispositions and experience	Insights into behavioural ecology through biologging: a case study on canids	Silence is golden? Unwanted attention to small-sized koalas when vocalising	Drone observation and social network analyses reveal a multilevel society of feral horses	Predictors of insemination success through forced matings in male guppies <i>Poecilia reticulata</i>	How do forest elephants use human habitat area?: focusing on their trails	Aposematic colour signals and chemical defences in nudibranch molluscs	Color, song and size; the white-throated kingfisher (<i>Halcyon smyrnensis</i>) subspecies complex, a glance to speciation.
11:45-12:00	Olga Procenko	Nicolas J. Silva	James Gallagher	Josefine Bohr Brask	Livia Pinzoni	Fernando Mateos-González	Johanna Mappes	Fanny-Linn Kraft
	State-dependent Judgement Biases in Bees in an Active Choice Task	Deep learning methods to automate data collection of morphological and behavioural traits through pictures and videos	From one voice to many: Illuminating the mechanisms underlying rapid sexual signal diversification	Linking social preferences to social network structure and function	Post-mating female control: an indirect mechanism of directional choice in a fish with external fertilization	Effects of COVID-19 on the behaviour of anglers, seen through the anonymous data from a sonar device	Predator selection on phenotypic variability of cryptic and aposematic moths	Species Recognition and Song Memory in Nestling Flycatchers
12:05-12:20	Maëlle Lefeuve	Cynthia Tedore	Małgorzata Niškiewicz	Deryk Tolman	Melissah Rowe	Oded Berger-Tal	Georgina Binns	Robert Curry
	Birds of a feather sing together: how variable temperature conditions affect zebra finches song learning	Recent advances in visualizing and quantifying the colorful (or not so colorful) world through animal eyes	Interspecific territoriality and species vocal recognition in African Turtur doves	Hosts do not tune their defences against cuckoos according to quantity of social information or host density	Avian reproductive microbiomes and local ejaculate immune function	Environmental variability as a predictor of behavioral flexibility in urban environments	What's Amata with this moth? Aposematic variation in a diurnal lepidopteran	Effects of hybridization on chickadee spatial memory: a field test incorporating social network context in wild birds
12:25-12:40	Victor Ajuwon	Liliana R. Silva	Anastasia Krasheninnikova	Renata Mazzei	Takeshi Ito	Krishna Balasubramaniam	Innes Cuthill	Carolyn Sommer-Trembo
	Exploring non-instrumental information-seeking in goldfish	Using deep learning for automatic video analyses in wild birds	Phylogenetic map of vocal learning in parrots	Social flexibility in Caribbean Elacatinus gobies	Paired comparisons of eleven species with different fertilization modes reveal the evolution of sperm in marine fishes	Anthropogenic factors and social interactions affect zoonotic outbreak risk among (peri)urban wildlife populations	Host plants as extended phenotypes of aposematic insects	Exploring the role of behaviour in one of the largest adaptive radiations: an integrative approach

Speaker Timetable

Day 4 – Monday 1 August – Afternoon Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Noise pollution and behaviour	Migration	Reproductive behaviour	Social Behaviour	Brood parasitism	Cost of reproduction	Life histories	Transgenerational effects
Session Chair	Brett Seymoure	Niklas Janz	Ola Svensson	David Wheatcroft	Charlotta Kvarnemo	Martin Reichard	Graziella Iossa	Karl Gotthard
14:10-14:25	Léna De Framond	Ying-Chi (Ginny) Chan	Alejandro Cantarero	T Revathe	Jeremy Field	Matthias Tschumi	Fernando Campos	Juliette Tariel
	Long-term effects of noise pollution on the avian dawn chorus: a natural experiment facilitated by an airport closure	Ontogeny of migration in a partially migratory raptor	Wild common crossbills produce redder feathers when experimentally forced to increase flying effort	Possible roles of allomaternal care in the Kabini Asian elephant population, southern India	Cuckoos that care: conspecific brood parasitism in subsocial wasps	Reduced habitat quality increases intrinsic but not ecological costs of reproduction	A consistent pattern of female reproductive aging revealed in the interbirth intervals of seven primate species	Transgenerational induction of anti-predator behaviour does not depend on the timing of predator perception
14:30-14:45	Riin Viigipuu	Arne Hegemann	Frigg Speelman	Sonam Chorol	Teresa Abaurrea	Lucy Winder	Mats Olsson	Jennifer Hellmann
	Great tits alter incubation behaviour in noisy environments	Immune function as a physiological mechanism underlying migratory decisions	Causes of mate fidelity and divorce in the Seychelles warbler	Eavesdropping on social calls in congeneric Babbler species	Common cuckoo females are opportunistic in their selection of individual Common redstarts	The optimal clutch size revisited: separating the effects of individual quality from the costs of reproduction	Inbreeding effects on telomeres in hatchling sand lizards (<i>Lacerta agilis</i>)	Vertical transmission of horizontally-acquired information in stickleback: Implications for transgenerational plasticity
14:50-15:05	Eva-Lotta Blom	Hester Brønnvik	Michelle Beyer	Krista J. Shofstall	Michal Šulc	Samuel Ellis	Kenyon Mobley	Scott Sakaluk
	Continuous and intermittent noise has a negative impact on reproductive success and early life survival in marine fish	Experience does not change the importance of wind support for migratory route selection by a soaring bird	Directional information in a spider silk trail	Variation of alloparental care in Cape ground squirrels (<i>Xerus inauris</i>) and who benefits.	Nest sanitation as an effective defence against brood parasitism	Insights into the evolution of menopause from a comparative study of cetaceans	The effect of the maturation gene <i>vgl13</i> on multiple spawning and reproductive fitness in wild Atlantic salmon	Transgenerational effects of experimentally increased maternal corticosterone in a wild bird population
15:10-15:25	Mario Gallego-Abenza	Jennifer Morinay	Justine Chartrain	Kristina Beck	Katja Rönkä	Magali Meniri		Diogo Antunes
	Traffic noise and male-male competition separately influence antipredator responses in male field crickets	Carry-over effects of movement decisions: when seasonal migration affects breeding dispersal	Semiochemical-based mate searching behaviour in tardigrades: comparing the sexes	Experimentally testing the effect of local population density on social structure and patch discovery in great tits	Can we move beyond “genes-for-behaviour”? The potential for genomics to resolve questions in avian brood parasitism	Untangling the oxidative cost of reproduction: an analysis in wild banded mongooses		Parents know best: transgenerational effects of early social experiences in a cooperatively breeding fish

Speaker Timetable

Day 4 – Monday 1 August – Evening Session

Session	Auditorium A1 Mate choice	Room C1 Sensory ecology	Room C2 Foraging	Room C3 Habitat degradation and behaviour	Room C4 Cooperative breeding	Room 24/25 Pollution and behaviour	Room 27 Physiology and behaviour	Room 35/36 Predator-prey interactions
Session Chair	Ingo Schlupp	Karen Cheney	Niklas Janz	Erin McCallum	Andrew Cockburn	Josefin Sundin	Jennifer Hellmann	Daniel Blumstein
16:10-16:25	Pietro Pollo	Frane Babarovic	Brett Seymoure	Weihong Ji	Océane La Loggia	Natalia Sandoval Herrera	Timothy Salzman	Costanza Zanghi
	The better, the choosier: a meta-analysis on interindividual variation of male mate choice	Mosaic effect of ecological and behavioural traits on the evolution of colouration in the clade Coraciiformes	Untangling the effects of time and light on wolf spider foraging efficiency	Contribution of burrowing mammals to grassland degradation --- a population or a behavioural effect?	The influence of social exposure in early and later development on social competence in a cooperatively breeding fish.	Spatial navigation in bats is affected by low doses of neurotoxic insecticide	Individual differences in metabolic plasticity across an activity gradient in house sparrows	How turbidity and temperature change affect predator-prey interaction in an acara-guppy system
16:30-16:45	Ellen Pasternack	Nathan Morehouse	Anders Brodin	Angelique Dupuch	Pietro D'Amelio	Maryse Vanderplanck	Fabien Demares	Piotr Matyjasiak
	Mrs Coolidge: Do females prefer mating with novel males?	Male Color and Motion Collaborate to Capture and Retain Female Gaze During Courtship in Habronattus Jumping Spiders	Why do hoarding parids remember their caching locations?	Invasion of alien slugs in disturbed habitats: role of behavioural phenotype, plasticity, and interspecific competition	Recording individual vocalizations in small cooperative birds using on-board microphones: challenges and successes	Impact of ozone on the behavior of pollinators	Oxidative stress generated by ozone pollution affects honey bee physiology, olfaction and memory.	Anthropogenic noise interacts with the predation risk assessment in a free-ranging bird
16:50-17:05	Sabine Noebel	Christopher Cooney	Mauricio Cantor	Lisa Boström Einarsson	Chris Duncan	Hung Tan	Juli Broggi	Alice Exnerova
	Images of copulating conspecifics elicit mate copying in fruit flies	Latitudinal gradients in avian colourfulness	The mechanisms and conservation of a rare human-animal foraging cooperation	Angry fishes - linking altered behaviour in butterflyfishes to community changes following habitat loss	The drivers of dominance loss in male and female meerkats, a cooperatively breeding mongoose	Potent agricultural contaminant alters relationships between pre- and post-copulatory sexual traits in male mosquitofish	Physiological consequences of short-term individual variation in the cost of living	Prey categorization by avian predators
17:10-17:25	Sonia Tiew	Jolyon Troscianko	Allegra DePasquale	Olivia Spagnuolo	Nikola Dragić	Jack Orford	Doreen Cabrera	Callum McLellan
	Modeling beauty face perception & Influence of this perception on Mandrill's socio-sexual behaviour	A model of colour appearance based on efficient coding of natural images	When and why would a frugivore eat plant pith? Pith selection by wild capuchin monkeys (Cebus imitator)	Effects of livestock grazing intensity on space use by large carnivores in the Masai Mara National Reserve, Kenya	Multilayer social networks reveal the dimensions of Arabian babblers' sociality	The impacts of a widespread agricultural pollutant on foraging and antipredator behaviour in the spotted marsh frog	The interaction between physiology and behavior in determining life history strategy in the northern crayfish	Convergent evolution of gregarious behaviour in butterfly larvae is mediated by effects of colour pattern
17:30-17:45	Danita Daniel	Chun-Chia Chou	Orr Spiegel	Sam Hillman		Chayan Munshi	Rebecca Nagel	Yuhan He
	A Bold Choice: Personality, Cognition and Mating Preference in Wild Zebrafish	Size does not matter as long as it shines: female fiddler crabs prefer UV-reflective chelae, regardless of UV patch area	Resource manipulation reveals interactive phenotype-dependent foraging in free-ranging lizards	How resource distribution, not just availability, changes space-use, movement, and contact networks in wild wood mice		Arsenic contamination can induce autism spectrum disorder in prawns: consideration of repetitive grooming behaviour	Density and food availability impact behavior and physiology wild Antarctic fur seals	The integration of multiple antipredator defences in a rotifer: a low-cost insurance?

Speaker Timetable

Day 5– Tuesday 2 August – Morning Session

Session	Auditorium A1 Climate change and behaviour	Room C1 Sexual Selection	Room C2 Sensory ecology	Room C3 Cognition	Room C4 Group living	Room 24/25 Parental care	Room 27 Contests and competition	Room 35/36 Cooperative breeding
Session Chair	Rhonda Snook	Alessandro Devigili	Zahra Moradinour	Gunilla Rosenqvist	Franz Weissing	Wendt Müller	Jonathan Green	Dustin Rubenstein
10:45-11:00	Merel C. Breedveld Reproducing during heatwaves: the effects of extreme heat on reproductive success, behaviour, and offspring fitness	Jukka Kekäläinen Female-mediated selective sperm activation may remodel odour-based mate choice decisions in humans	Rebecca Boulton Sensory plasticity in a socially plastic bee	Shumpei Sogawa Three spined sticklebacks can discriminate others through true individual recognition (TIR) by their face	Anne Sabol Sociality and the oral microbiome in prairie voles	Sandra Steiger Evolutionary change in the benefits of parental care	Daniel Sankey Landscape of war: banded mongooses make context-dependent movement decisions in the face of intergroup conflict	Irene García Ruiz The evolution of cooperative breeding by direct and indirect fitness effects
11:05-11:20	Maxence Gérard Exposure to elevated temperature during development affects plant-pollinator interactions	Rachael A. DiSciullo What makes a song signal sex or strife? Synthesized songs can tell us which song components matter to free-living birds	Tane Kafle Temperature preference shifts in ecologically diverse flies	Olli Loukola Bumblebees learn to cooperate in a foraging task	Hajime Sato Relationship between group behavior and cleaner fish mimicry in the false cleanerfish <i>Aspidontus taeniatus</i>	Sigal Balshine Accessory gland evolution in fishes	Andrés Quiñones Learning can mediate the evolution of (cheap and costly) signals of quality	Rita Covas Infanticide in a highly cooperative bird
11:25-11:40	Craig Perl Heatwave-like events during development are sufficient to impair bumblebee worker responses to sensory stimuli	Magdalena Herdegen-Radwan Can females learn to like male colours? A test of the role of associative learning in originating sexual preferences.	Laurie Mitchell Higher ultraviolet skin reflectance as a submissive signal in the anemonefish, <i>Amphiprion akindynos</i>	Enrico Sorato Reversal learning ability predicts post-release movement behaviour in captive-bred North African houbara bustards	Adriana Maldonado-Chaparro Sociality Outside the Breeding Context: Revealing the Patterns of Pair-Bond Formation in a Monogamous Species	Antoine Grissot Consistency of parental coordination and its link to pair characteristics in an arctic seabird	Josh Arbon Stable dyadic dominance relationships do not necessarily lead to population-level hierarchies	Amy Leedale Kin recognition for incest avoidance in a cooperative mammal
11:45-12:00	Camille Testard Fitness consequences of increasing sociality after a natural disaster in rhesus macaques	Jacek Radwan What do orange spots reveal about male (and female) guppies? A test using correlated responses to selection	Benito Wainwright Visual adaptations to divergent and convergent microhabitats in a mimetic butterfly community	Krista van den Heuvel Realized heritability and repeatability of reversal learning performance in great tits (<i>Parus major</i>)	Melissa A. Pavez Fox Sociality is linked to survival via reduced injury risk in a group-living primate	Curtis Creighton The Effect of Resource Quality on Partner Compensation in a Bi-parental Species	Eva Wikberg Causes and consequences of intergroup aggression in colobus monkeys (<i>Colobus vellerosus</i>)	Laurence Cousseau Habitat fragmentation shapes natal dispersal and sociality in the placid greenbul, an Afrotropical cooperative breeder
12:05-12:20	Krista Oswald Behaviour of a mountain range-restricted species is described by interactions between microsite use and temperature	Bernadette Johnson The Evolution of the Testis Transcriptome in Pregnant Male Pipefishes and Seahorses	Olivia Harris Exploitation of anti-predator behavior in the courtship displays of <i>Maratus</i> jumping spiders	Johanna Henke-von der Malsburg Memory retention varies independently of sex-specific activity levels in wild grey mouse lemurs	Aneesh Bose It's dangerous to go outside: Reproductive skew, dispersal, and group-living under strong ecological constraints	Grant C. McDonald Remating opportunities and low desertion costs underlie family fragmentation	Tobit Dehnen Strategic dominance interactions in vulturine guineafowl	Louis Bliard Predation risk is positively associated with the prevalence of family living and cooperative breeding in birds
12:25-12:40	Elena Zwirner Human pro-social tendencies in volcanic environments	Aivars Cīrulis Effects of sex-limited experimental evolution on a hermaphrodite mating behavior	Amanda Melin Anatomy and dietary specialization influence sensory behaviour among sympatric frugivorous primates	Javier Oñate-Casado An experience to remember: lifelong effects of playback-based capture on the behaviour of Tawny pipits	Peter Kappeler Fitness consequences of group size variation in a lemur	Jacqueline Sahn Brood size and family constellations affect parental care decisions and offspring performance in burying beetles	Kingsley Hunt Leaders of war: modelling the evolution of conflict among heterogeneous groups	Rita Fortuna Predator playbacks affect maternal egg allocation regardless of group size in a cooperatively breeding bird

Poster Sessions

Poster Session 1 – Saturday 30 July, 18:00 – 20:00

Poster Session 2 – Monday 1 August, 18:00 – 20:00

Poster Session Topic Quick Guide

Topic	Poster Numbers
Human Behaviour	1-2
Contests and competition	3-7
Altruism and cooperation	8-11
Social behaviour	12-19
Aposematism and mimicry	20
Sensory ecology	21-25
Sexual selection, reproductive tactics and mating systems	26-48
Cognition and neurophysiological mechanisms	49-67
Communication	68-77
Movement, migration and dispersal	78-92
Foraging	93-99
Behavioural plasticity and animal personality	100-113
Life histories	114-120
Anthropogenic effects on behaviour, climate change, conservation and welfare	121-143
Plant-animal and host-parasite interactions	144-150
Parental care	151-160
Predator-prey interactions	161-166
Omics and behaviour	167

Poster Sessions

Poster Session 1 – Saturday 30 July, 18:00 – 20:00

Poster Session 2 – Monday 1 August, 18:00 – 20:00

Poster Number	Poster Session	Presenter	Title
Human Behaviour			
1	1	<i>Pragya Poddar</i>	Assessment of mental stress in young females
2	2	<i>Aida Nitsch</i>	Sibling competition, dispersal and fitness outcomes in humans
Contests and competition			
3	1	<i>Amir Haluts</i>	A unifying model of animal contests based on effective interaction forces
4	2	<i>Patrícia Beltrão</i>	Bullying and show-off: how common waxbills manage their social dominance hierarchy
5	1	<i>Nikolas Papanikolas Kacharat</i>	Interactions among Curruca warblers breeding in Cyprus
6	2	<i>Phromkhunathon</i>	A force competition of predator on urban ecosystem
7	1	<i>Agata Staniewicz</i>	Competition for acoustic space in birds – do similarly singing species avoid spatial and temporal overlapping?
Altruism and cooperation			
8	2	<i>Madlen A. Prang</i>	The nature of offspring interactions in a genus with interspecific variation in offspring dependence on parental care
9	2	<i>Madingley M. Abbs</i>	The evolutionary ecology of sibling cannibalism in seed bugs
10	1	<i>Chunhui Hao</i>	Genes on plasmids are less connected, including genes for cooperation
11	2	<i>Yuya Kobayashi</i>	Provision of food to host sea anemones by anemonefish: Its true nature and effect on the host
Social behaviour			
12	1	<i>Isaac Ligocki</i>	Joint Predation Activity in Lake Tanganyikan Fishes
13	2	<i>Caroline Driscoll</i>	Cost hinders helping behavior in rats
14	1	<i>Shasta E. Webb</i>	Group size and ecological factors influence behavioural synchrony in white-faced capuchin monkeys (<i>Cebus imitator</i>)
15	2	<i>Francesca Santostefano</i>	Social selection in virtual ecosystems
16	1	<i>Marie-Ève Labonté-Dupras</i>	Environmental effects on social selection in Tree swallows (<i>Tachycineta bicolor</i>)
17	2	<i>Arnon Lotem</i>	Social demonstration of color preference improves social learning of demonstrated actions
18	1	<i>Ena Onishi</i>	Contagious urination among captive chimpanzees: Investigation of initiator and follower
19	1	<i>Sruthi Unnikrishnan</i>	Conserved hormonal and molecular mechanisms underlying behavioural maturation in open- and cavity-nesting honey bees
Aposematism and mimicry			
20	2	<i>Emily Burdfield-Steel</i>	Signalling in the city – the effects of urbanisation on aposematism
Sensory ecology			
21	1	<i>Julia Balogh</i>	Habitat effects on the sugar perception of honeybees
22	2	<i>Vun Wen Jie</i>	Polarization vision in bumblebee species, do differences in morphology reflect differences in behavioural ecology?
23	1	<i>Tammy Ho</i>	Effects of proportional processing on preference strength in female mate choice in an ant-mimic jumping spider
24	2	<i>Zahra Moradinour</i>	Sensory organ investment varies with body size and sex in the temperate butterfly <i>Pieris napi</i>
25	1	<i>Priscila de Cássia Souza Araújo</i>	Spectral sensitivity of the positive phototaxis in crepuscular bees
Sexual selection, reproductive tactics and mating systems			
26	1	<i>Elisa Morbiato</i>	First come, first served pattern of mate precedence increases fertilization probability in a harsh environment
27	2	<i>Erwan Harscouet</i>	Weaverbirds (Ploceidae) nests: a sexually selected extended phenotype?
28	1	<i>Ayumi Mizuno</i>	Food-mimicking ornamental traits in Estrildid finches
29	2	<i>Yuting Dong</i>	Ritualised courtship and male-male competition in the false widow spider (<i>Steatoda grossa</i>)
30	1	<i>Johanna Yliportimo</i>	Fine-grained spatial variation in mating success and sexual selection in a sand goby population
31	2	<i>Erika Fernlund Isaksson</i>	Resource-dependent cryptic female choice in a live bearing fish

32	1	<i>Katharine M. Jack</i>	Female counterstrategies to infanticide in <i>Cebus imitator</i> : Evaluating the Bruce effect, early weaning, and allonursing
33	2	<i>Gianni Rasnick</i>	Pre-mating pool resource competition and sexual selection
34	1	<i>Stefania D'Arpa</i>	Experimentally impaired female condition does not affect biliverdin-based egg colour
35	2	<i>Louise M. Alissa</i>	Good body condition increases male attractiveness but not caring quality in a Neotropical arachnid with male-only care
36	1	<i>Charel Reuland</i>	Does male dominance affect female mate choice? An experimental examination in a livebearing fish
37	2	<i>Laure A. Olivier</i>	What influences who breeds? A review and prospectus on reproductive skew theory
38	1	<i>Aravind Sridharan</i>	Dance or disappear: Strategic sexual signalling in female Peninsular rock agama
39	2	<i>Mohammed Aamir Sadiq</i>	To call or not to call: Mating benefits of Flexible Alternative Reproductive Tactics in a tree cricket
40	1	<i>William Ashworth</i>	Contrasting the importance of the visible and ultra-violet spectrum during mate choice in a livebearing fish
41	2	<i>Jon Richardson</i>	Playing the laying game: adjustment of egg laying by both hosts and intraspecific brood parasites
42	1	<i>Hope Klug</i>	Cascading effects of pre-adult survival on sexual selection
43	2	<i>Lenka Sentenská</i>	Risky business: Males choose more receptive adults over safer subadults in a cannibalistic spider
44	1	<i>Diego Gil</i>	Biased estimates of sexual selection when floaters are not taken into account
45	2	<i>Zsófia Tóth</i>	The relationship between mating systems and spermatozoa characteristics in shorebirds
46	1	<i>Carly Hawkins</i>	Elucidating the complexities of social monogamy and alternative mating tactics in songbirds
47	2	<i>Yuki Kondo</i>	Prudent sperm allocation in an externally fertilizing fish, Japanese medaka (<i>Oryzias latipes</i>)
48	1	<i>Ana Caroline Oliveira Vasconcelos</i>	Defence chemicals inherited by offspring of a stick-insect
Cognition and neurophysiological mechanisms			
49	2	<i>ChuChu Lu</i>	What do Zebra finches learn besides singing? Systematic review of the literature and presentation of a new test
50	1	<i>Mathilde Eriksen</i>	The role of acoustic stimuli on match-to-sample in the African grey parrot (<i>Psittacus erithacus</i>)
51	2	<i>Yusuke Iwata</i>	Yawn contagion in a social cichlid fish, <i>Neolamprologus pulcher</i>
52	1	<i>Elisabeth Suwandschieff</i>	Imitative and nonimitative social learning in kea (<i>Nestor notabilis</i>) in a two-action task
53	2	<i>Camille Troisi</i>	Measuring response inhibition using an ecologically valid task in two gull species
54	1	<i>Bella Beizerman</i>	Can sparrows learn to like the parts and dislike the whole?
55	2	<i>Thomas Rejsenhus Jensen</i>	The selfish preen: Absence of allopreening in Palaeognathae and its socio-cognitive implications
56	1	<i>Joanna T. Bialas</i>	Head volume, brain size and cognitive abilities – is there any link between them?
57	2	<i>Ernő Vincze</i>	Urbanization's effects on problem solving abilities: a meta-analysis
58	1	<i>Vanessa Penna Goncalves</i>	Does the social brain hypothesis apply to Huntsman spiders?
59	2	<i>Jeroen Zewald</i>	Sensorimotor and motor self-regulation development in flexible tool using Goffin's cockatoos (<i>Cacatua goffiniana</i>)
60	1	<i>Gabriella Smith</i>	Contrafreeloading in differentially playful species: Greys (<i>Psittacus erithacus</i>) and kea parrots (<i>Nestor notabilis</i>)
61	2	<i>Arnon Lotem</i>	Modelling cleaner fish behavior suggests a role for ecologically tuned chunking in the evolution of advanced cognition
62	1	<i>Noa Truskanov</i>	Configural learning by cleaner fish in a complex biological market task
63	2	<i>Zohar Hagbi</i>	Keeping a level head: How rodents from different habitats travel on inclined surfaces?
65	1	<i>Utku Urhan</i>	Cognitive and behavioural determinants of innovativeness
66	1	<i>Ernesto Restrepo</i>	Methods for comparative studies of insect brains and their link to behavioral ecology
67	2	<i>Dimphy van Boerdonk</i>	The use of a cognitive map in <i>Poecilia reticulata</i> : Do jumping guppies aim aerial jumps?
Communication			
68	1	<i>Romain Lefèvre</i>	Universal emotional translators: a machine learning adventure to explore acoustic correlates of emotions in animals
69	2	<i>Yui Matsumoto</i>	Large Japanese field mice produce multiple types of ultrasonic vocalizations
70	1	<i>Miriam Kuspel</i>	The social context of alarm calls: Function and specificity of alarm calling in Eurasian magpies
71	2	<i>Ola Svensson</i>	Sand goby females do not spawn with silent males, but do males sing out their condition and can female hear the song in a noisy environment?
72	1	<i>Ayano Kitaguchi</i>	Behavioral diversity associated with food availability in four species pairs of the goby-shrimp relationship
73	2	<i>Isabel Driscoll</i>	Emotion encoding in meerkat vocalisations
74	1	<i>Sylwia Pustkowiak</i>	Biodiversity as the heterospecific social information: the effect on territory selection and vocal mimicry in birds
75	2	<i>Jakub Szymkowiak</i>	Eavesdropping on conspecific alarm calls across territory borders: wild birds form population-wide information webs
76	1	<i>Kim Anh Sander</i>	The role of territory quality in early song discrimination in the pied flycatcher
77	2	<i>Moric Tószeghi</i>	Do caring males call differently in a glass frog species with male parental care?

Movement, migration and dispersal			
78	1	<i>Emmanuel Lourie</i>	Elucidating the drivers of spatial partitioning between neighboring fruit bat colonies
79	2	<i>Madeleine Berry</i>	Migratory patterns and productivity potential of juvenile sea trout.
80	1	<i>Hannah De Waele</i>	Artificial selection for predation survival shapes collective motion in guppies (<i>Poecilia reticulata</i>)
81	2	<i>Rebecca Chen</i>	Sex-specific fine-scale population structure and effects of hunting on the genetic diversity of Finnish black grouse
82	1	<i>Gaya Sherf</i>	Examining the symbiotic magnetic sensing hypothesis using Emlen funnels, induced magnetic fields and antibiotics
83	2	<i>Claus Rueffler</i>	Reproductive interference and the evolution of host plant selection in closely related phytophagous insects
84	1	<i>Gergely Horváth</i>	Divergence in exploratory behaviour between surface and cave-adapted populations in <i>Asellus aquaticus</i>
85	2	<i>Paris Jagers</i>	Individual variation in foraging behaviour in Manx shearwaters (<i>Puffinus puffinus</i>)
86	1	<i>Hester Brønnevik</i>	Do better flyers disperse earlier?
87	2	<i>James Klarevas-Irby</i>	Limitations to the energetic efficiency of movement in group-living animals
88	1	<i>Tovale Solomon</i>	Comparing factors affecting individual predictability and intraspecific repeatability in movement across avian species
89	2	<i>Hanna Kavli Lodberg-Holm</i>	Individual variation and spatio-temporal trends in terrestrial habitat selection of Eurasian beavers
90	1	<i>Mélina Cointe</i>	Bridging behaviour and spatial propagation in minute insects: the double-spiral method and image analysis pipeline
91	2	<i>Linnéa Jürgensen</i>	The relevance of polarised light for the monarch butterfly's sun compass
92	1	<i>Joe Morford</i>	A non-invasive methodology for investigating olfactory navigation in a pelagic seabird, the Manx shearwater
Foraging			
93	1	<i>Rasmus Mohr Mortensen</i>	Aquatic habitat use in a semi-aquatic mammal
94	2	<i>Molly Gilmour</i>	Tri-trophic interactions in foraging behaviour: the effects of predation risk, population density, and seed traits
95	2	<i>Julie Jarvey</i>	Spatial ecology of spotted hyena (<i>Crocuta crocuta</i>) foraging across changing ecological conditions
96	1	<i>Jens Jung</i>	Activity patterns of black-backed jackals (<i>Canis mesomelas schmidtii</i>) – impact of weather and moon phase
97	2	<i>Thi Hanh Nguyen</i>	Parental and early-life experiences shape individual foraging specialization and personalities of predatory mites
98	2	<i>Mélibée Morel</i>	Foraging specialisation in a changing world - a multi-year study in adult Lesser black-backed gulls
99	2	<i>Mattie Purinton</i>	Foraging ecology and conservation of African white-backed vultures
Behavioural plasticity and animal personality			
100	1	<i>Susan Marsh-Rollo</i>	Exploring cognitive flexibility in the context of alternative reproductive tactics in a wild living fish
101	2	<i>Aurelia F. T. Strauß</i>	Variation in Behavioural and Physiological Chronotypes and their Fitness Consequences in Great Tits
102	1	<i>Corné De Groot</i>	Ecology and evolution of social impact and responsiveness in a wild sparrow population
103	2	<i>Cliodhna Hynes</i>	Sexual differences in giraffe habitat selection in the Namib desert
104	1	<i>Adrianna Muszyńska</i>	Does geographically determined daylight length affect daily and seasonal vocal activity of the Common chaffinch?
105	2	<i>Catherine Čapkun-Huot</i>	On the Evolutionary Importance of Habituation: a Case Study on Eastern Chipmunks
106	1	<i>Flavia Berlinghieri</i>	Do stickleback parents influence the development of personality and brain laterality in their offspring?
107	2	<i>Allison McLaughlin</i>	House sparrows exhibit individual differences in generalization when confronted with different novel stimuli
108	1	<i>Elena Zwirner</i>	Cognitive adaptations to ecological shocks in small rodents
109	2	<i>Martina Martorell-Barceló</i>	Personality and Behavioral Syndromes in Pearly Razorfish
110	1	<i>Marjolein Meijdam</i>	Early bird or late night owl? Individual variation in great tit chronotypes
111	1	<i>Diego Stingo Hirmas</i>	Habituation and Predictability in chickens: Intra-individual variation across time, contexts and situations.
112	1	<i>Filippa Erixon</i>	Boldness, aggressiveness, stress response, and dominance rank correlations in bank voles (<i>Myodes glareolus</i>)
113	1	<i>Tomislav Gojak</i>	Behaviour of coexisting lizard species, <i>Podarcis siculus</i> and <i>Podarcis melisellensis</i> , in a novel environment
Life histories			
114	1	<i>Fay Morland</i>	Demographic patterns of fertility and embryo mortality in a population of a threatened bird, the hihi

115	2	<i>Carly Lynsdale</i>	The metabolic switch? Linking individual physiology and life-history in the Glanville fritillary
116	2	<i>Graziella Iossa</i>	The ecological function of micropyles in insect eggs
117	2	<i>David Gómez Blanco</i>	Short early-life telomere length and lack of malaria infection predicts telomere elongation in wild great reed warblers
118	2	<i>Irene Gaona-Gordillo</i>	Phenotypic integration between morphology and behavior at different hierarchical levels
119	2	<i>Veronika Rau</i>	Re-molding of dietary effects on the fecundity/longevity trade-off in a termite species
120	2	<i>Ye Xiong</i>	Heritability of early life telomere length (eTL) in zebra finch
Anthropogenic effects on behaviour, climate change, conservation and welfare			
121	1	<i>Jessica Campbell</i>	Fine-scale habitat use and feeding behaviour of juvenile snapper (<i>Chrysophrys auratus</i>)
122	2	<i>Astrid Anette Carlsen</i>	Foraging efficiency in diving predators based on prey availability
123	1	<i>Benedikte Austad</i>	Evaluating removal methods of the invasive Brook trout and effects of removal on the ecosystem
124	2	<i>Miho Saito</i>	Housing with male triggers higher aggressive behaviors in female giraffe
125	1	<i>Topi Lehtonen</i>	Why are glow-worm females particularly vulnerable to urbanisation?
125	2	<i>Sabrina Schalz</i>	Eavesdropping on Speech in Crows
126	1	<i>Christina Hansen Wheat</i>	The unfulfilled potential of dogs in studying behavioural evolution during the Anthropocene
127	2	<i>Christian Olesen</i>	Effects of changing sea surface salinity in the Wadden Sea and Baltic Sea on the distribution of <i>Pomatoschistus microps</i>
128	1	<i>Audrey Turcotte</i>	Risk-taking behaviours are associated with human disturbance in painted turtles
129	2	<i>Marcus Michelangeli</i>	Drugs in schools: does Prozac disrupt the collective behaviour of fish?
130	2	<i>Jane Faull</i>	Does begging behaviour predict a fearless nature in the selection of fawning bedsites in fallow deer?
131	1	<i>Kalpesh Jas</i>	Prawn behaviour: A reliable marker for evaluating abiotic stress in aquatic environment
132	2	<i>Chancey MacDonald</i>	Depth gradients influence disturbance and feeding behaviours in corallivore fishes following a warm-water anomaly
133	1	<i>Katie Smith</i>	Nest-site fidelity in Greater sage-grouse (<i>Centrocercus urophasianus</i>)
134	2	<i>Mihieka Bose</i>	Colouration in semi-transparent prawn: a perplexing strategy of camouflage
135	1	<i>Davide Bottacini</i>	Long-term effects of culling on the behaviour of invasive lionfish (<i>Pterois miles</i>) in the Mediterranean
136	2	<i>Kaori Mizuno</i>	Camera trap position changes response behaviour of forest duikers
137	1	<i>SeyyedSajjad Vakili Shahrabaki</i>	Incubation behaviour of Common Goldeneye under endocrine-disrupting chemicals and climate change pressure
138	2	<i>Jacqueline Bikker</i>	Caffeine's effects on complex behaviour in fathead minnow (<i>Pimephales promelas</i>)
139	1	<i>Gabrielle Welsh</i>	Human-generated noise impacts cricket behavior more than life history traits and reproductive investment
140	2	<i>Eleanor Diamant</i>	Before, during and after the "anthropause": the impact of human activity on individual fear response in an urban bird
141	1	<i>Michael Bertram</i>	Frontiers in quantifying wildlife behavioural responses to chemical pollution
142	1	<i>Michael Bertram</i>	EthoCRED: A framework to guide evaluation of the reliability and relevance of behavioural ecotoxicity studies
143	2	<i>Paula Antonina Bednarz</i>	Influence of traffic noise on small mammals
Plant-animal and host-parasite interactions			
145	1	<i>Manuel Morales</i>	Ideal-free distribution in host choice by an ant-protected treehopper
146	1	<i>Hiroto Yoshimura</i>	Fecal DNA metabarcoding analysis of wild snow leopard (<i>Panthera uncia</i>) focusing on dietary plant species.
147	1	<i>Andrew Ryan</i>	Effects of <i>Toxoplasma gondii</i> infection on fallow deer (<i>Dama dama</i>) willingness to engage with humans.
148	1	<i>Megan Henriquez</i>	Examining population dynamics of parasites to assess costs of sociality in a wild mammal
149	1	<i>Zoé Delefortrie</i>	Effects of haemosporidians on reproductive strategies in a polymorphic species
150	1	<i>Alfred Daniel Johnson</i>	Development and superparasitism of the wasp <i>Philolema latroducti</i> in a native and an invasive widow spider egg sac
Parental care			
151	1	<i>Anais Avilés De Diego</i>	Infant post-mortem caretaking behaviours and cannibalism in Guinea baboons
151	2	<i>Francesca Nicole Angiolani-Larrea</i>	This is my space: site fidelity in a glassfrog without parental care
152	1	<i>Marina Garrido-Priego</i>	Caring is sexy: female mate choice in <i>Hyalinobatrachium valerioi</i>
153	2	<i>Jessie E.C. Adriaense</i>	Proximate mechanisms underlying action coordination during infant transfers in a cooperatively breeding primate
154	1	<i>Jia Zheng</i>	A novel function of egg burial: burying material prevents eggs falling out of wind-swayed nests
155	2	<i>Fionnuala McCully</i>	Personality and parental investment: the impact of pair members' boldness on trip duration patterns in a long-lived seabird
156	2	<i>Taya de Blonk</i>	Links between life history, mate preferences, and the loss and gain of parental care
157	2	<i>Isimeme Naomi Udu</i>	Life history and the evolutionary loss of parental care
158	2	<i>Maximilian Körner</i>	Investigating immunity in an insect with collective antimicrobial defenses: can mothers buffer costs of pathogens?

159	2	<i>Casey Patmore</i>	Interspecific competition promotes biparental cooperation in the burying beetle <i>Nicrophorus vespilloides</i>
160	2	<i>Lena Zywucki</i>	Infanticide in burying beetles is not just a matter of resource availability
Predator-prey interactions			
161	1	<i>Tusheema Dutta</i>	Factors affecting seasonal variation in escape behavior of birds along an urban-rural gradient
162	2	<i>Ioan Smart</i>	Testing camouflage in virtual reality environments
163	1	<i>Kai-Philipp Gladow</i>	How the return of the Eurasian Eagle Owl as an intraguild predator changes the dynamics in a raptor community in Germany
164	2	<i>Brandon Quinby</i>	Spatial risk modelling of cattle depredation by black vultures in the midwestern United States
165	1	<i>Yuha Hasegawa</i>	Escaping via the predator's gill: A defensive tactic of juvenile eels after capture by predatory fish
166	2	<i>Monica Mowery</i>	Invasive brown widow spiders avoid egg sac parasitism and predation despite high densities
Omics and behaviour			
167	2	<i>Takahisa Ueno</i>	The ecological functioning of behavioral variation on wild <i>Drosophila</i>

ISBE+ Virtual Presentations

Presenter	Title
<i>Neetika Ahlawat</i>	<i>Drosophila melanogaster</i> hosts coevolving with <i>Pseudomonas entomophila</i> pathogen show sex-specific local adaptation
<i>Apostolos Angelakakis</i>	The mating behavior and fitness consequences of polyandry in the common house spider <i>Parasteatoda tepidariorum</i>
<i>Anahi Castillo Angon</i> <i>Emmanuelle Briolat</i> <i>Sydney M. Collins</i>	Foraging heuristics in the wild: are brushtail possums affected by phantom decoys? Moths in the spotlight: how artificial lights affect the visual ecology of nocturnal Lepidoptera Foraging paths of breeding Leach's Storm-Petrels in relation to offshore oil platforms, breeding stage, and year
<i>Brittany A. Coppinger</i>	Conspecific and Heterospecific Effects on Calling Complexity in Carolina Chickadees (<i>Poecile carolinensis</i>)
<i>Adam Cronin</i> <i>Ornela De Gasperin</i> <i>Tatiana Demidova</i>	Asymmetric influence of group composition on emigration performance in an ant Cryptic mutation load in a supergene controlling social organisation in ants Aggressive males are melanistic and active but they are not fast learners in African killifish <i>Nothobranchius guentheri</i>
<i>Ofri Eitan</i> <i>Lucy Farrow</i>	Functional daylight echolocation in highly visual bats The impact of brain morphology on behavioural flexibility in the Noisy Miner (<i>Manorina melancephala</i>) bird
<i>Ruth Fishman</i> <i>Jennifer A. Fortunato</i> <i>Erhao Ge</i> <i>Aarini Ghosh</i>	Favoring genetic diversity over 'good genes': Multiple paternity and fetal testosterone Plasticity of the competition-ready phenotype: effects of embryonic social environment Religious celibacy brings inclusive fitness benefits Sympatric call divergence in morphologically similar Paleotropical Tettigoniidae (genus Mecopoda) from India
<i>Jodie Gruber</i> <i>Jessica Hadlow</i> <i>James Hare</i> <i>Rebecca (Beki) Hooper</i> <i>Carter Jordan</i>	Male survivorship and the evolution of eusociality in partially bivoltine sweat bees Temporal effects of egg-derived chemicals on sperm motility and velocity-longevity trade-offs Hug the One You're With: Domestic dogs are aroused but not stressed by human hugging Pair-bond strength is repeatable and related to partner responsiveness in a wild corvid Nest competition and sexual selection in the sand goby: what happens when losers become winners?
<i>Jason Keagy</i> <i>Patrick Kennedy</i> <i>Buddhamas Pralle Kriengwatana</i> <i>Susana Cortés Manzaneque</i> <i>Jesus Martínez-Padilla</i>	Testing the Parental Brain Hypothesis in Three-Spined Stickleback Fish Brinkmanship in the evolution of altruism Early life stress does not affect HPA activity of reproductive partners Developmental plasticity to predation risk and environmental matching Density-dependent selection on local and immigrant birds drives the evolutionary dynamics of sexual ornaments
<i>Rowan McGinley</i>	Light environment interacts with visual displays in a species-specific manner in multimodal signaling wolf spiders
<i>Rachael Miller (Harrison)</i> <i>Maki Morooka</i> <i>Luis Nahmad-Rohen</i> <i>Kevin Neumann</i> <i>Ha Nguyen</i> <i>Sarah Nila</i> <i>Daniel Parejo-Pulido</i> <i>Courtney Pike</i>	ManyBirds: a multi-site Open Science approach to avian cognition and behaviour research Adaptive shifts in an invasive species, <i>Anolis carolinensis</i> in the Ogasawara Islands in Japan Polarisation Sensitivity in Octopus Social networks and implications for reproductive isolation in stickleback ecotypes The influence of social context on personal immunity How do Indonesian people help strangers? Immune challenge modulates nestling begging behavior in the spotless starling Warbler Finches are not able to compensate for nest parasitism by the Avian Vampire Fly with increased feeding rates
<i>Natalie Pilakouta</i> <i>Victoria Rostovtseva</i> <i>Christian Rutz</i>	Effects of temperature changes on mating behaviour and mating success: a meta-analysis Understanding cooperativeness in humans The STRANGE framework for improving experimental designs, reporting standards and reproducibility
<i>Beatriz C. Saldanha</i> <i>Debbie Saunders</i>	Effects of dietary tryptophan supplementation in the collective behaviour of a highly social bird Advanced drone radio-tracking technology improves mortality signal detection in wildlife movement and survival studies
<i>Lova Schildt</i> <i>Athira T K</i> <i>Ilapreet Toor</i>	Ontogenetic shifts in swimming performance in the rainbow wrasse <i>Coris julis</i> Genetic relatedness and associations among adult male Asian elephants Hormones do not make the mole-rat: no steroid hormone signatures of subordinate behavioural phenotypes
<i>Sarah Walsh</i>	Complex combinatoriality in the non-song vocalizations of Western Australian magpies (<i>Gymnorhina tibicen dorsalis</i>)
<i>Blake Wyber</i>	Reduced habitat complexity improves female productivity in the seed beetle <i>Callosobruchus maculatus</i>

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