

27 Oct. – 1 Nov. 2023

# IBAC 2023

The XXVIII International  
Bioacoustics Congress

---

**Venue** Conference Hall of  
Hokkaido University

---

---

Sponsors

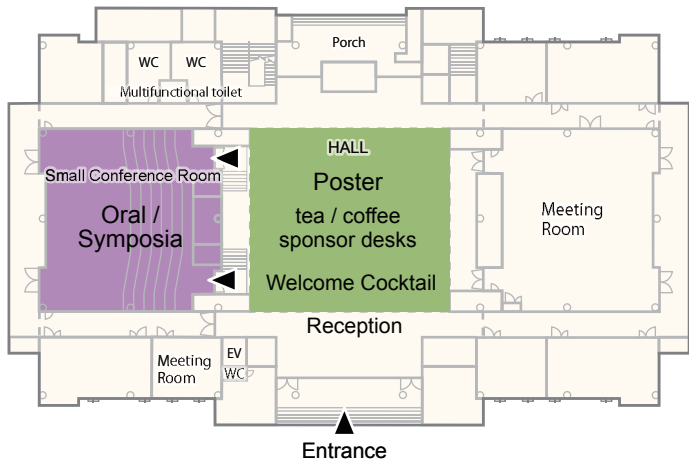
---



# Floor Plan

## Day 1 27 Oct.

1F (ground floor)



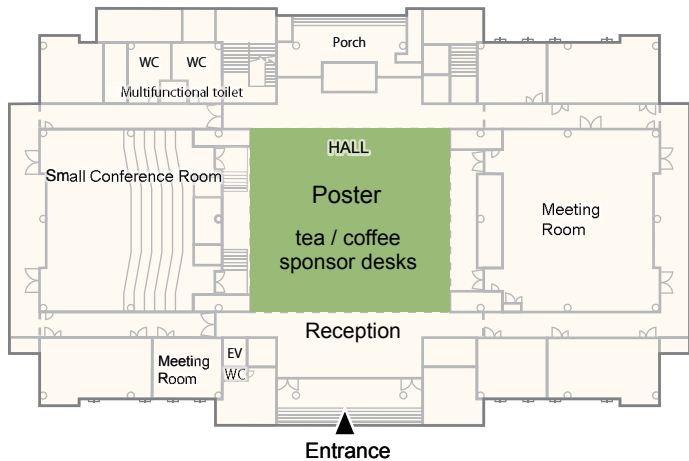
Please note that we use different rooms for oral presentations and symposia on Day 1 and Day 2-5.

Please also note that the conference hall building is shared with other meetings.

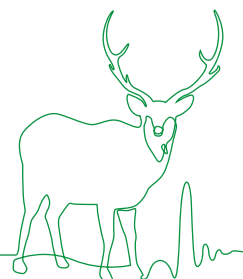
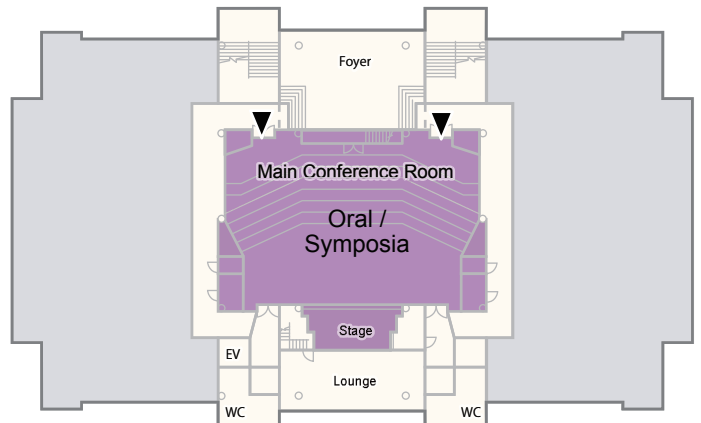
In the building, we do not have wifi except for Eduroam, for which you need a license.

## Day 2-5 28-31 Oct.

1F (ground floor)



2F



# Schedule

Day 1 FRI 27 OCT	Day 2 SAT 28 OCT	Day 3 SUN 29 OCT	Day 4 MON 30 OCT	Day 5 TUE 31 OCT
------------------------	------------------------	------------------------	------------------------	------------------------

Start Time	Day 1 FRI 27 OCT	Day 2 SAT 28 OCT	Day 3 SUN 29 OCT	Day 4 MON 30 OCT	Day 5 TUE 31 OCT
8:30		<b>Plenary</b> Dr. Nishimura	<b>Plenary</b> Dr. Balakrishnan	<b>Plenary</b> Dr. Pepperberg	<b>Plenary</b> Dr. Spottiswoode
9:30	<b>Reception starts</b>	<b>Coffee</b>	<b>Coffee</b>	<b>Coffee</b>	<b>Coffee</b>
10:00	<b>Orpnig Remark</b>	10:00 O-10 Bouffaut 𠄎	10:00 O-28 Ishikawa 𠄎	10:00 O-36 Mathevon 𠄎	10:00 O-51 Vieira 𠄎
		10:15 O-11 Rule★ 𠄎	10:15 O-29 Ghosh 𠄎	10:15 O-37 Brumm 𠄎	10:15 O-52 Rios 𠄎
10:30	S5-1 Herbst (S5)	10:30 O-12 Terrade	10:30 O-30 Kodama★	10:30 O-38 Zhou★	10:30 O-53 Raick★
10:45	S5-2 Elemans	10:45 O-13 Osiecka★	10:45 O-31 van Rensburg	10:45 O-39 Sarfati	10:45 O-54 Banse★
11:00	S5-3 Dunn	11:00 O-14 Duengen★	11:00 S3-1 Ross★ (S3)	11:00 O-40 Mariette	11:00 S6-1 Liao★ (S6)
11:15	S5-4 Nishimura	11:15 O-15 Nishibori★	11:15 S3-2 Lin	11:15 O-41 Staniewicz★	11:15 S6-3 Carlson
11:30	S5-5 Tokuda	11:30 O-16 Koshiishi★	11:30 S3-3 Sousa-Lima	11:30 O-42 Sokolowska	11:30 S6-4 Magrath
11:45	S5-6 Nojiri	11:45 O-17 Erbs	11:45 S3-4 Phillips	11:45 O-43 Oñate Casado★	11:45 S6-5 Suzuki
12:00	S5-7 Adam	<b>Lunch Time</b>	<b>Lunch Time</b>	<b>Lunch Time</b>	<b>Lunch Time</b>
12:15	S5-8 Goncharova★				
12:30	<b>Lunch Time</b>	12:30 <b>Lunch Time Seminar</b> Frontier Labs	12:30 <b>Lunch Time Seminar</b> British Museum	12:30 <b>Lunch Time Seminar</b> Wildlife Acoustics	
		13:30 O-18 Araya Salas 𠄎	13:30 S8-1 Kimura (S8)	13:30 S7-1 Favaro (S7)	13:30 O-55 Gamba 𠄎
		13:45 O-19 Grinfeder 𠄎	13:45 S8-2 Zambon	13:45 S7-2 Devos	13:45 O-56 Valente 𠄎
14:00	O-01 Simon 𠄎	14:00 O-20 Maggs	14:00 S8-3 Wang★	14:00 S7-3 Zampa	14:00 O-57 Muir
14:15	O-02 Häfele★ 𠄎	14:15 O-21 Martinez Balvanera	14:15 S8-4 Jorge	14:15 S7-4 Osiejuk	14:15 O-58 Duarte
14:30	O-03 Elizondo-Calvo★	14:30 O-22 Manriquez Peralta	14:30 S8-5 André / Erbs	14:30 S7-5 Marsot★	14:30 O-59 Pisanski
14:45	O-04 Yoshida★	14:45 O-23 Denton	14:45	14:45 S7-6 De Rosa	14:45 O-60 Garcia Arasco
15:00	O-05 Yoshino-Hashizawa★ 𠄎	15:00	<b>Tea / Poster</b>	15:00	15:00 O-61 Hoeschele
15:15	O-06 Hoffmann-Kuhnt 𠄎	<b>Tea / Poster</b>		<b>Tea / Poster</b>	15:15
15:30	O-07 Ho				<b>Tea / Poster</b>
15:45	O-08 Manabe★		15:45 O-32 Petrusková 𠄎		15:45 O-62 Sugai★ 𠄎
16:00	O-09 Ghani★	16:00 O-24 Budka 𠄎	16:00 O-33 Rhinehart 𠄎	16:00 O-44 Gahr 𠄎	16:00 O-63 Thiebault 𠄎
16:15	<b>Tea / Poster</b>	16:15 O-25 Buainain 𠄎	16:15 O-34 Baker	16:15 O-45 Lewis★ 𠄎	16:15 O-64 Prior
		16:45 O-26 Singh★	16:30 O-35 Benocci	16:45 O-46 Jablonszky	16:45 O-65 Madhavan★
16:45	S2-1 Heath (S2)	16:45 O-27 Bedoya	16:45	16:45 O-47 Furutani	16:45 O-66 Rajput
17:00	S2-2 Ferreira★	17:00 <b>Short Break</b>	<b>General Assembly Meeting</b>	17:00 O-48 Ota	17:00 O-67 Shirai
17:15	S2-3 Beleyur★	17:15 S4-1 Nolasco (S4)		17:15 O-49 Ma★	17:15 O-68 Huang
17:30	S2-4 Cahalan	17:30 S4-2 Best★		17:30 O-50 Bharti	17:30 O-69 Kirschel
17:45	S2-5 Rollo	17:45 S4-3 Lostanlen		17:45 <b>Short Break</b>	17:45 <b>Closing Remark</b>
18:00	S2-6 Klinck	18:00 S4-4 Marques		18:00 S1-1 Jadoul★ (S1)	
18:15	S2-7 Desjonquères	18:15 S4-5 Sethi		18:15 S1-2 Ravnani	
		18:30 S4-6 van Merriënboer	18:30	18:30 S1-3 Kwong	
18:45	<b>Welcome Cocktail</b>	18:45 S4-7 Işık	<b>Mid-day Banquet</b>	18:45 S1-4 Raimondi★	
		19:00 S4-8 Keen		19:00 S1-5 Seki	
		19:15 S4-9 Vargas-Castro			

O: Oral / S: Symposium

★: Candidate for awards for early career researchers  
𠄎: Co-chair of the oral session

1-hour Poster Session

Day 2 (28th): poster core time for Odd poster number

Day 3 (29th): poster core time for Even poster number

Day 4 (30th): free session

S1 The social origins of rhythm

S2 Acoustic sensor arrays for biological research and monitoring across scales

S3 Community ecoacoustics: from patterns to mechanisms of assemblages

S4 Computational and machine learning methods

S5 The anatomy and physiology of vertebrate sound production: from mechanism to function

S6 Causes and consequences of variation in avian vocalization and its relation to language evolution

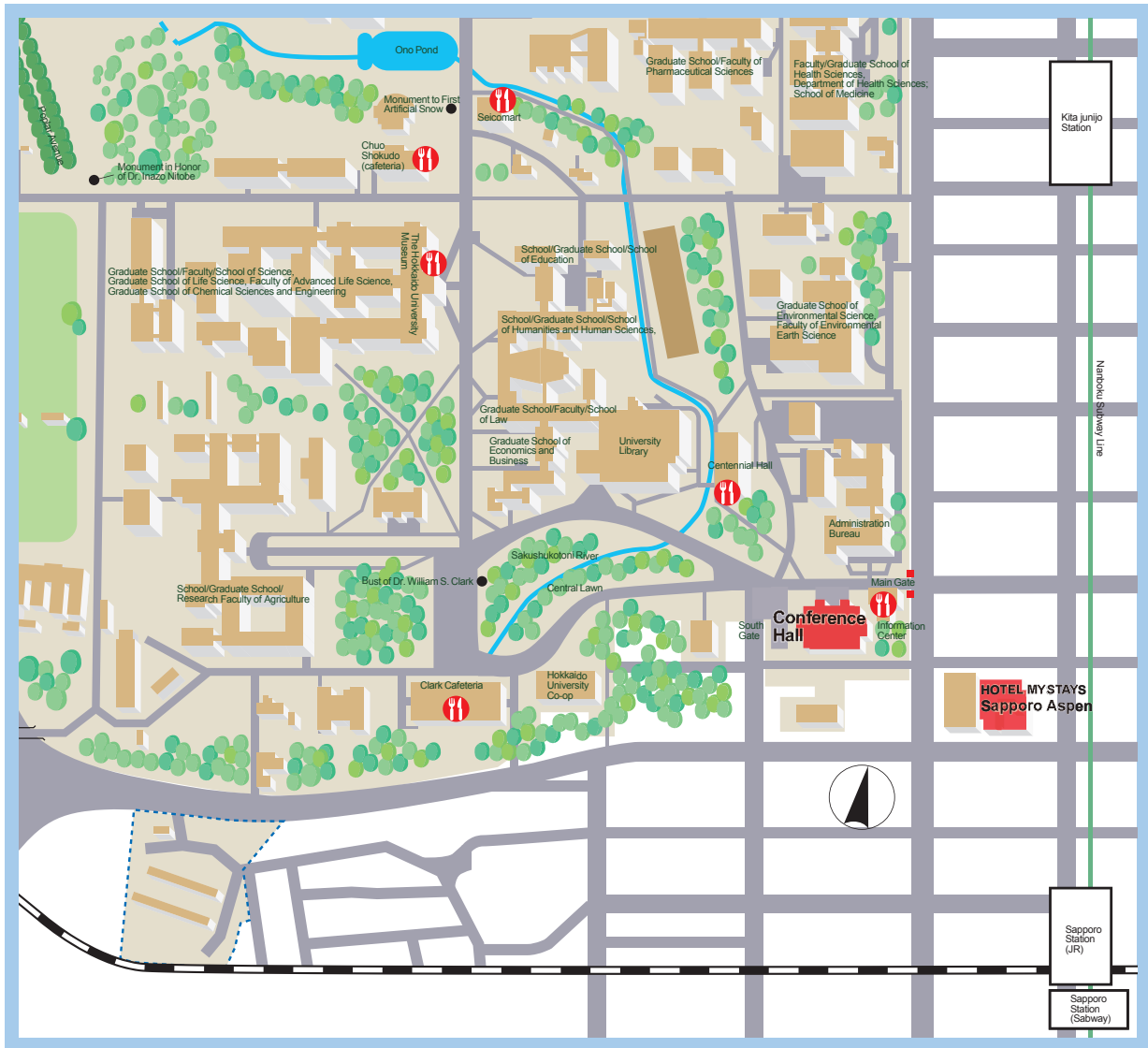
S7 Individuality in animal acoustic signals: Patterns, processes, and practical applications

S8 Underwater noise effect

Day 6 WED 1 NOV
-----------------------

Excursion Tour
----------------

# Map



Sapporo Campus Map →



Lunch Map →



## Organizing Comettee

- Kazuo Okanoya (Teikyo University)
- Masayo Soma (Hokkaido University)
- Kazuhiro Wada (Hokkaido University)
- Hiroto Ogawa (Hokkaido University)
- Yoshimasa Seki (Aichi University)
- Ryo Nakano (Institute of Fruit Tree and Tea Science, NARO)
- Tomonari Akamatsu (National Research Institute for Fisheries Science)
- Hiroki Koda (The University of Toky)

## Contact

ibac@sci.hokudai.ac.jp

URL <https://2023.ibac.info/> →



**Secretariat / Design**

Space-Time Inc.

**IBAC 2023** The XXVIII International  
Bioacoustics Congress



# Plenary

## Plenary-1 (Japanese Plenary) Takeshi Nishimura

View inside: Vocal anatomy and physiology in primates

## Plenary-2 Rohini Balakrishnan

Acoustic communication in tree crickets: Biophysics to behavioural ecology

## Plenary-3 Irene Pepperberg

Reviewing How Grey Parrots produce English Speech...And How/Why Use of English Speech Fuels Cognitive Research

## Plenary-4 (Young Plenary) Claire Spottiswoode

Show me the honey: communication between people and wild birds in Africa

# Symposium

★: Candidate for awards for early career researchers

No.	Last name	Title of the presentation
S1-1	Jadoul★	The emergence of accelerando in a population: an evolutionary model of rhythmic vocalisations in African penguins ( <i>Spheniscus demersus</i> )
S1-2	Ravignani	Vocal learning, chorusing seal pups, and the evolution of rhythm
S1-3	Kwong	Categorical rhythms in Java sparrows
S1-4	Raimondi★	Isochrony and rhythmic interaction in the gibbon song
S1-5	Seki	Imitation of human music by cockatiels; Does this connect rhythmic synchronization with capability for vocal learning?
S2-1	Heath	Introducing MAARU: Multichannel Acoustic Autonomous Recording Unit
S2-2	Ferreira★	Whistles in the equatorial Atlantic: Odontocete acoustic encounter rates based on a beta automatic template detector
S2-3	Beleyur★	Nudging the study of group echolocation: localising sources in overlapping audio and detailed sound radiation models
S2-4	Cahalan	Acoustic monitoring of avian diversity after prescribed fire
S2-5	Rollo	Advancing Soil Bioacoustics: Development of an Autonomous, Sensitive, and Versatile Audio Recording System for Capturing Subtle Acoustic Signatures
S2-6	Klinck	Acoustic localization of beaked whales off the coast of Guam using a long baseline array
S2-7	Desjonquères	Acoustic Species Distribution Models (aSDMs): a framework to forecast shifts in calling behaviour under climate change
S3-1	Ross★	Understanding disturbance impacts in terrestrial ecosystems through ecoacoustics.
S3-2	Lin	Exploring marine community dynamics through underwater soundscape and source separation: A case study of Kueishan Island, Taiwan
S3-3	Sousa-Lima	Characterizing the soundscape of a Brazilian habitat for endangered cetaceans prior to the construction of a port
S3-4	Phillips	Long-term anthropogenic noise affects community dynamics in a pinyon-juniper ecosystem
S4-1	Nolasco	All you need is data? Methods for specialist small-scale tasks in bioacoustics.
S4-2	Best★	Computer-assisted categorisation of vocalisations using deep learning
S4-3	Lostanlen	Interpreting the predictions of birdsong recognizers with distance sampling
S4-4	Marques	Supporting Narwhal Monitoring Via Passive Acoustics: Using CRNNs To Automatically Detect Their Calls
S4-5	Sethi	Is there an accurate and generalisable way to use soundscapes to monitor biodiversity?
S4-6	van Merriënboer	Evaluating machine learning models for bioacoustics
S4-7	Işık	BirdNET Tiny - Real-Time Avian Diversity Monitoring on Microcontrollers
S4-8	Keen	A novel encoder-based framework for animal vocal repertoire discovery
S4-9	Vargas-Castro	Automated classification of mormoopid bat calls using selected call parameters and machine learning in an open cloud-based environment
S5-1	Herbst	An overview of mammalian voice production mechanisms
S5-2	Elemans	Embodied motor control of the animal voice
S5-3	Dunn	The comparative anatomy of the primate larynx
S5-4	Nishimura	Vocal anatomy and physiology for generating a stable vocal source in primates
S5-5	Tokuda	Nonlinear dynamics of animals vocalization in the presence of vocal membranes
S5-6	Nojiri	Ontogeny of sound-producing apparatus sheds light on the diversification of the laryngeal echolocation in bats.
S5-7	Adam	Peak performance singing requires daily vocal exercise in songbirds
S5-8	Goncharova★	Harbour seals can articulate to modulate formants
S6-1	Liao★	Extremely slow development of response to referential alarm calls in the highly social white-winged chough
S6-3	Carlson	Dialects across space: a look at dialects in two populations of birds

S6-4	Magrath	Deceptive exploitation of a predator' s understanding of referential alarm calls
S6-5	Suzuki	How to study animal syntax
S7-1	Favaro	Individual and indexical cues in African penguin vocalisations
S7-2	Devos	A birdsong individuality study in a stable passerine wetland population: the case of the Cetti' s warbler ( <i>Cettia cetti</i> )
S7-3	Zampa	Stand out from the crowd: breeding density affect vocal individuality in Ortolan bunting ( <i>Emberiza hortulana</i> )
S7-4	Osiejuk	Yes, doves can! Neighbour-stranger discrimination in an African wood dove inhabiting equatorial rainforest
S7-5	Marsot★	Are we hearing the same? [br]Individuality and variation of the ear morphology and hearing sensitivity in primates
S7-6	De Rosa	Implementing Spatial Mark Resight Models With Acoustic Activity Data Described Through Environmental Covariates
S8-1	Kimura	Comparison of environmental factors associated with the acoustic behavior of finless porpoises in the Yangtze River and Japanese waters
S8-2	Zambon	The European Project 'Deuteronoise' - The Impact Of Maritime Noise On Ecological Relevant Deuterostome Invertebrates
S8-3	Wang ★	Exploring noise pollution effects on marine invertebrates using experimental ecology
S8-4	Jorge	Assessing changes of vocal behaviour via analyses of acoustic parameters and indices: a case study of sibling frog species in allopatry versus sympatry
S8-5	André / Erbs	Estimating the co-occurrence of Amazon river dolphins and boats in a floodplain core habitat

## Oral ★: Candidate for awards for early career researchers

No.	Last name	Title of the presentation
O-01	Simon	The sound of flowers ? Acoustic traits of bat-pollinated flowers and their recognition by glossophagine bats
O-02	Häfele★	Active control of receiver morphology of freely flying bats during prey capture
O-03	Elizondo-Calvo★	Ecological Specialization and Acoustic Adaptations: Evolution of Echolocation Signals in Phyllostomid Bats
O-04	Yoshida★	Reconsideration of the strategic significance in Doppler shift compensation behavior of echolocating bats
O-05	Yoshino-Hashizawa★	Fear propagation via vocalization in bats: Decoding internal states from heart rate analysis
O-06	Hoffmann-Kuhnt	PAMMATS - A Portable Acoustic Marine Mammal Tracking System
O-07	Ho	Exploring Animal Communication: Calibration Techniques to Identify Vocalizer with Synchronized Video and Multichannel Audio Recordings
O-08	Manabe★	Application of mixture invariant training (MixIT) to ALOHA Cabled Observatory (ACO) hydrophone data
O-09	Ghani★	Large-scale acoustic bird species recognition using deep learning and transfer learning
O-10	Bouffaut	Monitoring blue and fin whales using Distributed Acoustic Sensing: tools, results, and roadmap
O-11	Rule★	Hear far, wherever you are: the origins of amphibious hearing in pinnipeds
O-12	Terrade	Do nonlinear phenomena in mammalian alarm and distress calls reduce receiver habituation?
O-13	Osiecka★	Developing isochrony: Cape fur seals go from imperfect beats as pups to rhythmically regular barks as adults
O-14	Duengen★	Vocal learning experiments in a vocally flexible pinniped: the harbor seal
O-15	Nishibori★	Maternal Separation Affects Social Communication in Juvenile and Adult Mongolian Gerbils ( <i>Meriones unguiculatus</i> )
O-16	Koshiishi★	Neural processing of emotional vocalizations in rats: involvement of the dopaminergic system.
O-17	Erbs	Developing acoustic-based automated methods to monitor Amazonian manatees
O-18	Araya Salas	Quantifying habitat-induced degradation of animal sounds: the R package baRulho
O-19	Grinfeder	Evascape, a new tool to reconstruct terrestrial soundscapes for ecoacoustic and psychoacoustic research
O-20	Maggs	Acoustic Localization ? A simplified workflow.
O-21	Martinez Balvanera	Whombat: Enabling Efficient Bioacoustic Data Annotation and its Implications for Bat Identification
O-22	Manriquez Peralta	Classification of a small mammalian vocalization data set using deep learning techniques
O-23	Denton	The Search for Squawk
O-24	Budka	Acoustic indices predict bird biodiversity and correlate with habitat characteristics of a temperate forest
O-25	Buainain	From soundscapes to conservation insights: leveraging deep learning and passive acoustic monitoring for biodiversity monitoring in an Amazonian hotspot
O-26	Singh★	The sound of diversity: utility of acoustic indices to examine pattern of diversity
O-27	Bedoya	Censusing bird populations through the characterisation of acoustic individuality
O-28	Ishikawa	Evolutionary Changes in Auditory Systems and Song Information Processing in Fruit Fly
O-29	Ghosh	A holistic approach to understanding acoustic divergence in paleotropical katydids from India: Bioacoustics, Morphology, and Phylogenetics
O-30	Kodama★	Meimuna opalifera males respond differently to the distinctive two parts of a phrase in the calling songs
O-31	van Rensburg	Assessing acoustic competition between sibling frog species using rhythm analysis

O-32	Petrusková	Individual acoustic monitoring for research and conservation
O-33	Rhinehart	Studying birds' vocalization and movement behavior at large scales with automated acoustic localization
O-34	Baker	Infrastructure for multi-scale acoustic analyses
O-35	Benocci	Soundscape of Two Urban Green Areas in the City of Milan, Italy
O-36	Mathevon	Sound categorization by crocodilians
O-37	Brumm	Auditory and non-auditory effects of noise on bird song
O-38	Zhou★	Does temporal masking affect bird communication in the wild?
O-39	Sarfati	Impact of pollution on the cultural evolution of great tits ( <i>Parus major</i> ) songs
O-40	Mariette	Traffic noise directly disrupts development, physiology and long-term fitness in a songbird
O-41	Staniewicz★	Species-specific strategies for acoustic space competition-avoidance in two Afrotropical songbirds
O-42	Sokołowska	Temporal and spectral partitioning of acoustic space in common chiffchaff and Eurasian blackcap
O-43	Oñate Casado★	Geographic variation of birdsong in mainland and island systems: A comparative analysis of two closely-related species
O-44	Gahr	Learning songs for individuality.
O-45	Lewis★	Female song preference in the Java Sparrow: Familiarity or Complexity?
O-46	Jablonszky	Java finch males show differential courtship display towards females of different quality
O-47	Furutani	Java Sparrows distinguish emotional vocalization using sound structure
O-48	Ota	Vibrational courtship communication in socially monogamous songbirds
O-49	Ma★	Recognition for the father's song at an early age in pied flycatchers ( <i>Ficedula hypoleuca</i> )
O-50	Bharti	Song characteristics and functional significance of territorial song in Oriental Magpie Robin
O-51	Vieira	Assessing temporal and spatial spawning overlap between invasive weakfish ( <i>Cynoscion regalis</i> ) and native meagre ( <i>Argyrosomus regius</i> ) with Passive Acoustic Monitoring.
O-52	Rios	Assessment of spatial and temporal patterns of nearshore fish communities through passive acoustic monitoring in a Marine Protected Area
O-53	Raick★	Unveiling the Secrets of Fish Sounds in Polynesian Lower Mesophotic Reefs: A Thrilling Crime Scene Investigation
O-54	Banse★	Comparative study of sound production in Holocentrids
O-55	Gamba	The ontogeny of rhythm in the song of the lemur <i>Indri indri</i>
O-56	Valente	Comparing the vocal repertoires of two sympatric lemur species
O-57	Muir	Hyoid Phylogeny, Allometry, and Relationship to Vocalisation in Platyrrhines
O-58	Duarte	Acoustic Monitoring of Black-Tufted Marmosets in a Tropical Forest Disturbed by Mining Noise
O-59	Pisanski	Are human non-linguistic vocalizations acquired through vocal learning?
O-60	Garcia Arasco	From laughs to screams: Do human nonverbal vocalisations vary across cultures?
O-61	Hoeschele	Using cross-species bioacoustic comparisons to identify key abilities that underlie musical pitch perception and production
O-62	Sugai★	Insights into the temporality of anuran communities enabled by a collaborative network of acoustic monitoring
O-63	Thiebault	At-sea acoustic experiments reveal the implementation of an acoustic foraging network in African penguins
O-64	Prior	Vocal activity of the Eastern Ground Parrot ( <i>Pezoporus wallicus wallicus</i> ) and implications for acoustic monitoring efforts
O-65	Madhavan★	Does breeding density influence vocal individuality in the territorial calls of little owls ( <i>Athene noctua</i> ) in two central European populations?
O-66	Rajput	Angry birds: the role of chorus vocalization, group size and familiarity in territorial behaviour of Jungle Babblers
O-67	Shirai	Reintroduced Oriental Storks emit simple acoustic signals.
O-68	Huang	Characterizing structural variation in the notes of Adelaide's warbler ( <i>Setophaga adelaidae</i> ) songs
O-69	Kirschel	A role for rhythm in avian speciation

## Poster ★: Candidate for awards for early career researchers

No.	Last name	Title of the presentation
P-01	Shieh	Vocal mimicry in songs of invasive White-rumped Shamas in Taiwan
P-02	Bonafos★	Detecting human and non-human vocal productions in large scale audio recordings
P-03	Lecchini	'Habitat-associated soundscape' hypothesis tested on several coral reefs within the BORA-BORA lagoon
P-04	Kanasugi	Estimation of Ryukyu Scops Owl <i>Otus elegans</i> copulation frequency by recording and difference in copulation call frequency by pair bond duration.
P-05	Sørensen	Bionoise: quantifying the passive sound emitted from soil-dwelling ants ( <i>Formica rufa</i> )

P-06	Lopez	Decoupling variability among recorders from spatial and temporal variation of ecological acoustic indices
P-07	Bevan	Monitoring behaviour of an invasive bird ( <i>Psittacula krameri</i> ) in London using bioacoustics
P-08	Leite	Employing bioacoustic monitoring to investigate the vocal behavior of the elusive Rufous-vented Ground Cuckoo ( <i>Neomorphus geoffroyi</i> ) in Amazon, Brazil
P-09	Hsu★	Using Passive Acoustic Monitoring and Source Separation for Analyzing the Inter-annual and Seasonal Variability of Fish Community
P-10	Makioka★	The use of artificial songs to assess song recognition in imprinted female songbirds.
P-11	Miyazaki	Sensing strategies of bats for avoiding acoustic confusion by jamming sounds
P-12	Leon-Lopez	The sounds from a sky island: Sonoscape analysis in Sierra La Laguna Biosphere Reserve
P-13	Ota★	Using Bioacoustic Monitoring for Spatial Tracking of Silver Croaker ( <i>Pennahia argentata</i> ) during Courtship
P-14	Terada★	Individual differences in the communication sounds of captive narrow-ridged finless porpoises ( <i>Neophocaena asiaeorientalis</i> )
P-15	Kuroda	Clicks emission process of small toothed whales suggested by the tissue physical property and frequency response measurement
P-16	Teshima★	Ability of bats to discriminate objects with different blind spot information
P-17	Larsen	Using amphibious vocalizations in wild hippos to investigate inter- and intra- pod communication
P-19	Fukuzawa★	Does loss of MAP2 function affect sound perception? Measuring auditory characteristics using operant conditioning
P-20	Soma	Unexpected allometric effect on bill-clapping rhythm evolution in storks
P-21	Nakagagwa	Effects of early life stress experience on vocalization and behavior changes during aggressive encounters in Mongolian gerbils ( <i>Meriones unguiculatus</i> ).
P-22	Hosokawa	Laser auditory prosthesis: Evaluation of laser-induced auditory perception in Mongolian gerbils
P-23	Goto★	Timing of canary song in relation to fluctuating noise
P-24	Hlati	Assessing effects of seismic surveys on marine life in South African waters
P-25	Katsu	Examination of convergence of call timing during vocal turn-taking in Japanese macaques
P-26	Tanimoto	Imaging analysis of auditory and vestibular transduction in larval zebrafish
P-27	Nagamura★	Why Your Voice Sounds Strange: Contribution of Acoustic Factors and Word Familiarity
P-28	Zhao	Visualization and Quantification of Forest Animal Vocalizations: Applying Robot Audition Techniques in Ecoacoustics
P-29	Chae	Calling phenology of two species of amphibians using automated call detection.
P-30	Furumaki★	Transfer learning in Conservation Bioacoustics: from birds to ribbon seals
P-31	Yanagihara	Role of dopamine in the social enhancement of vocal learning in zebra finches.
P-32	Minamii	An Exploratory Study on Rat Ultrasonic Vocalizations Elicited by Observing Food Reward Delivery to Another Rat
P-33	Zhang	Behavioral and hormonal co-regulation for vocal plasticity in zebra finches
P-34	Hu	Transcriptomic alteration associated with song changes through domestication in songbirds
P-35	Kotambylu Vasudeva	The masking effect of noise of a pipe conveyor belt on anuran acoustics in an iron ore mining area in Karnataka State, India.
P-36	Suzuki★	Audio-Vocal Mirror Neurons in the Basal Ganglia of Bengalese Finches Change Their Response Properties During Development.
P-37	Bick	National-Scale Acoustic Monitoring of Avian Spring Migration Dynamics
P-38	Toji	Species-specific vocal learnability associated with transcriptomic signatures in glutamatergic projecting neurons in songbirds
P-39	Ishizuki	Analysis of frog call synchronization through playback experiments using frog robots
P-40	Inoue	Note orders in male Northern Gray gibbon songs may have meaning
P-41	Toya	Social interactions in Bengalese finches ( <i>Lonchura striata var. domestica</i> ): Automated Measurements using Visual and Auditory Signals to Test for the Commitment Hypothesis
P-42	Hakataya	Investigation of sex and individual differences in distance calls of Scaly-breasted Munias ( <i>Lonchura punctulata topela</i> ) in Taiwan
P-43	Lenz	Underwater vocalizations of the loggerhead ( <i>Caretta caretta</i> ) hatchlings
P-44	Parmentier	An unconventional sound-production mechanism in Atlantic Ostraciidae: insights from <i>L. triquetra</i> and <i>A. polygonius</i>
P-45	Baylis	Australian Wildlife Sound Recording Group
P-46	Tian	Perception of note-ordering in song by birds
P-47	Jono	Patternless calling gecko lizards use their calls to assess male quality
P-48	Goyes Vallejos	Female responses to conspecific intra-sexual playback signals in a Bornean frog
P-49	Hattori	Characteristics of auditory rhythms in drumming with tools and the pant-hoot displays by a chimpanzee ( <i>Pan Troglodytes</i> )
P-50	Soda★	Is song sharing used for territorial competition in Eurasian Wren?
P-51	Jain	Raise your voice against noise: impact of traffic noise on male mating calls and female hearing in a tropical field cricket
P-52	Chen★	Integration of Auditory and Visual Cues for Individual Recognition in Bengalese Finches: Analyses of Vocalizations and Behavioral Interactions.
P-53	Schmitt	DEEP-DOLPHIN: Predicting dolphin behavior from soundscape recordings using deep neural networks