

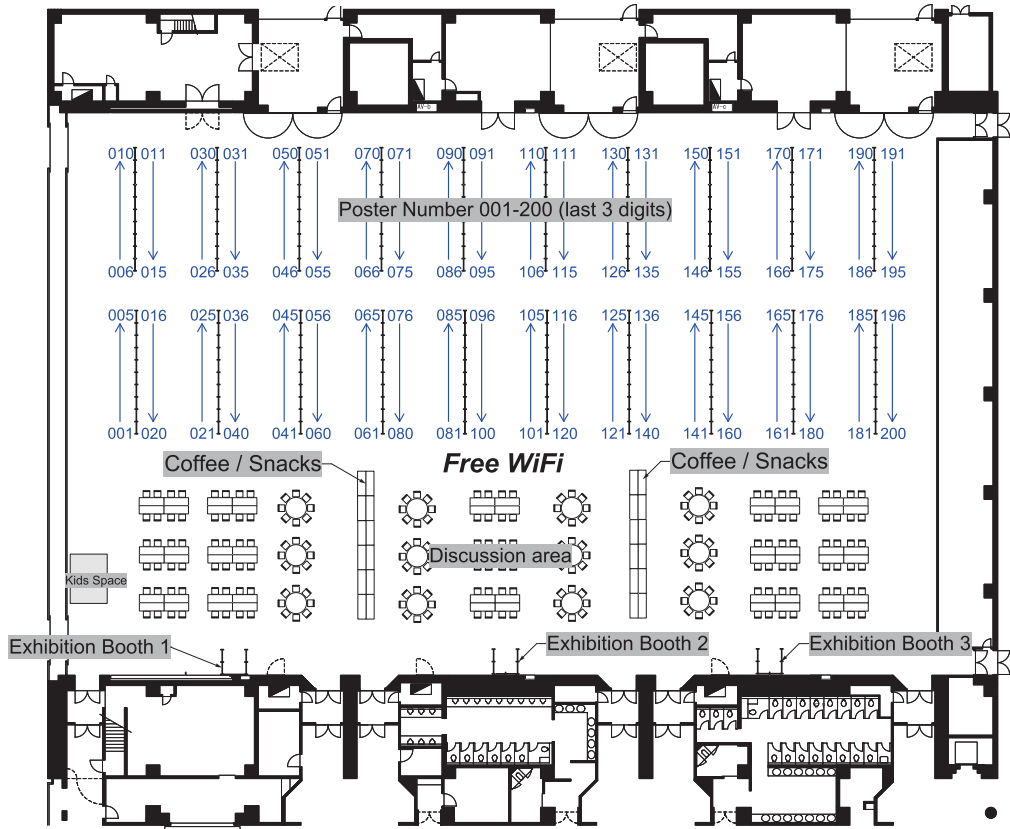
	July 28	July 29	July 30	July 31	August 1
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:30am-9:30am					
9:30am-10:00am					
10:00am-12:00am		<p>Coffee Break/ Film Festival</p> <p><b>PL1 Martin Giurfa</b></p> <p><i>Concurrent Invited Symposia</i></p> <p><b>Symposium 1:</b> Bats as neuroethological models: From echolocation and vocal production to 3D neural codes and navigation</p> <p><b>Symposium 2:</b> Emergence of simple behaviour: Channels, neurons and networks controlling swimming in developing vertebrates</p> <p><b>Symposium 3:</b> Insights from molluscan studies into the evolution of neural mechanisms for simple and complex learning and memory systems</p>	<p>Coffee Break/ Film Festival</p> <p><b>PL3 Ryohei Kanzaki</b></p> <p><i>Concurrent Invited Symposia</i></p> <p><b>Symposium 4:</b> Learned vocal communication in songbirds: Recent developments</p> <p><b>Symposium 5:</b> Coordination of multi legged locomotion</p> <p><b>Symposium 6:</b> JSCPB symposium: Third-generation photobiology and its relevance to chronobiology</p>	<p>Coffee Break/ Film Festival</p> <p><b>PL5 Motojiro Yoshihara</b></p> <p><b>Special Symposium honoring Mark Konishi</b></p> <p>Hermann Wagner Jose Peña Ichiro Fujita Dan Margoliash</p>	<p>Coffee Break/ Film Festival</p> <p><b>PL7 Lidia Szczupak</b></p> <p><i>Concurrent Invited Symposia</i></p> <p><b>Symposium 7:</b> Action selection: The role of the insect central complex</p> <p><b>Symposium 8:</b> Avian models of cognitive development</p> <p><b>Symposium 9:</b> Evolution of parental behaviors</p>
12:00am-1:30pm		Lunch/ Poster viewing/ Film Festival	Lunch/ Poster viewing/ Film Festival	Lunch/ Poster viewing/ Film Festival	Lunch/ Poster viewing
1:30pm-2:30pm		<b>PL2 Sarah Woolley</b>	<b>PL4 Barbara Finlay</b>	<b>PL6 Jochen Zeil</b>	<b>PL8 Malcolm MacIver</b>
2:30pm-3:00pm			Coffee Break		Coffee Break
3:00pm-5:00pm		<p><b>Poster Session 1 &amp; Coffee Break</b></p> <p>2:30pm-3:30pm (PO-1001, 1005...)</p> <p>3:30pm-4:30pm (PO-1002, 1006...)</p> <p>4:30pm-5:30pm (PO-1003, 1007...)</p> <p>5:30pm-6:30pm (PO-1004, 1008...)</p>	<p><i>Concurrent Participant Symposia</i></p> <p><b>Participant Symposium 1</b></p> <p><b>Participant Symposium 2</b></p> <p><b>Participant Symposium 3</b></p> <p>Coffee Break</p>	<p><b>Poster Session 2 &amp; Coffee Break</b></p> <p>2:30pm-3:30pm (PO-2001, 2005...)</p> <p>3:30pm-4:30pm (PO-2002, 2006...)</p> <p>4:30pm-5:30pm (PO-2003, 2007...)</p> <p>5:30pm-6:30pm (PO-2004, 2008...)</p>	<p><i>Concurrent Invited Symposia</i></p> <p><b>Symposium 10:</b> Decision making in worms, insects and vertebrates: Are there common principles or mechanisms?</p> <p><b>Symposium 11:</b> Deep homology of circuits underlying behavioral actions</p> <p><b>Symposium 12:</b> In the footsteps of Karl von Frisch: 100 years of investigations into insect color and polarization vision</p>
5:00pm-5:30pm					
5:30pm-6:00pm					
6:00pm-6:30pm					
6:30pm-7:30pm	6:00pm-8:00pm Opening Ceremony & Welcome Party	<b>Heiligenberg Lecture</b> <b>Harold H. Zakon</b>	<b>Young Investigator Award Symposium</b> Nancy Day Sarah Stamper Simon Sponberg Stefan Greif	<b>Huber Lecture</b> <b>Alan Roberts</b>	<b>Business Meeting and Awards</b> Free bus to ... 7:00pm-9:00pm Banquet Sapporo Beer Garden
8:00pm-		Student / Post-doc Mixer			

# Sapporo Convention Center <Floor Plan>

1st Floor



## ICN2014 <Main Hall for Posters and Discussion>



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# Information

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## Presentation

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### Oral sessions

Lectures and symposia will be held in rooms 1, 2 and 3, each equipped with a high power DLP projector and a big screen (300" in room 1 and 170" in rooms 2 and 3). You can freely use a green laser pointer and an iPad timer. Oral presenters will be expected to use their own computers (Windows or Mac) for video projections. We will not have a PC reception desk at the convention center. Speakers are advised to go to the room where they will give talks, connect their PC to the projector, and test the projector by themselves well before the session starts.

### Poster sessions

**The Main Hall** will be open for poster presentations throughout the congress, and each presenter will have a one-hour time slot allocated for his/her presentation during the 4-hour poster session (14:30-18:30). Posters of the session 1 (Tue-Wed, **PO-1xxx**) can be set-up in the morning (from 08:30 Tue) and should be removed by the evening of the next day (before 19:30 Wed). Posters of the session 2 (Thu-Fri, **PO-2xxx**) can be set-up in the morning (from 08:30 Thu) and should be removed by the evening of the next day (before 17:00 Fri).

### Poster boards and pins

A wide poster board space (1800mm × 1500mm) will be prepared for each poster. Pins will be provided. Velcro and adhesive tape are not suitable. No electric supply is available near the poster boards.

### Searchable web-based program

<http://kcon.expcp.jp/icn2014/>

### WiFi service

Bring your WiFi device for search and read the program. Free WiFi service is available in **Main Hall** and **Room1** without password. As the LAN capacity is limited, please connect **one device at a time** (either smartphone, tablet or PC) and save the traffic for other participants.

### Student/Post-doc Mixer

Get together and drink, eat and chat at the Restaurant SORA in the convention center on 29 (Tue) evening. Tickets (JPY1,000 per person) can be purchased at the reception desk. Contact us at: [mixer.icn2014@gmail.com](mailto:mixer.icn2014@gmail.com).

### Twitter and Film Festival for neuroethology

Tweets on <https://twitter.com/neuroethology> will be shown on a 50" monitor placed in the **Main Hall**. Video clips contributed to Neuroethology will be played at Film Festival in **room 4**. Attend, tweet, come and watch.

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## Amenity services

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### Food/drink and Lunch

Light snacks and drinks will be served at coffee break twice a day (starting from 09:30 and 14:30). For lunch, participants are advised to go out. Cafés, restaurants (sushi, noodles, Chinese, Italian, and Japanese) and the **Food Court in the “ias-Sapporo” super market** are located within 5 min walk from the convention center. A variety of shops selling fruits, sandwiches and lunch boxes will be open 10:00 - 20:00, and the Food Court will serve fast-foods (sandwiches, noodles, Japanese rice bowls) between 11:00 – 21:00. In the convention center, Restaurant SORA serves lunch with limited seating (max 100 seats).

### Taxi, subway and 1-day ticket

The convention center is located within a 10-min taxi drive from downtown Sapporo where most of the hotels are. The subway (Tozai line) connects between “Odori” station (downtown) and “Higashi Sapporo” station by 3 stops. One-day tickets can be purchased at a discount price (JPY 500) at the reception desk in the convention center. Ordinary tickets are also available at any subway stations.

### Post-congress tour

If you will be staying at Sapporo for 1-2 days after the congress, please consult our information desk at the convention center (JTB and Sapporo city). The following sites may be useful for finding short sightseeing bus tours.

Chuo Bus: <http://teikan.chuo-bus.co.jp/en/>

Hokkaido Access Network: <http://www.access-n.jp/summer2014/english/>

Hot Bus: [http://www.hotbus.co.jp/la\\_tr/index.html#tour\\_en](http://www.hotbus.co.jp/la_tr/index.html#tour_en)

### Reception desk

The reception desk will open 4:00 P.M. on Monday, July 28 and 7:30 A.M. on Tuesday, July 29 in the Entrance Hall. All the attendees are expected to go to the reception desk to pick-up your name tag and congress bag. On-site registration is also available at the desk.

### Opening Ceremony and Welcome Party

The opening ceremony will start 6:00 P.M. on Monday, July 28, followed by the welcome party in Room1.

### Banquet

On Aug 1, after the business meeting (6:00 P.M.), a free bus service takes you from the venue to the banquet at Sapporo Beer Garden.

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# Lectures and Symposia

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## Tuesday, July 29

### Plenary Lecture 1 (8:30 – 9:30) Room1

PL-1	Giurfa M	Rules and mechanisms of punishment learning in honey bees
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### Invited Symposium 1 (10:00 – 12:00) Room1

Bats as neuroethological models: From echolocation and vocal production to 3D neural codes and navigation

IS1-1	Ulanovsky N	Neural codes for 2-D and 3-D space in bat hippocampus
IS1-2	Moss C, Wohlgenuth M, Kothari N	Timing matters: Representing space through sound
IS1-3	Riquimaroux H	How do echolocating bats listen to returning echoes: Recent findings
IS1-4	Metzner W	Different modes of auditory feedback in bats

### Invited Symposium 2 (10:00 – 12:00) Room2

Emergence of simple behaviour: channels, neurons and networks controlling swimming in developing vertebrates

IS2-1	Thirumalai V	Mind the gap: Gap junctions and neural circuit assembly in larval zebrafish
IS2-2	Higashijima S, Kimura Y, Satou C	Hindbrain Chx10 neurons in the excitation of spinal locomotor circuits during zebrafish swimming
IS2-3	Li W, Merrison-Hort R, Zhang H, Borisyuk R	Both left-right swimming and synchrony are generated by the same circuit in <i>Xenopus Laevis</i> tadpoles
IS2-4	Boehm U, Fidelin K, Hubbard J, Djenoune L, Prendergast A, Wyart C	Optical probing of sensory-motor loops in the spinal cord of zebrafish larva

### Invited Symposium 3 (10:00 – 12:00) Room3

Insights from molluscan studies into the evolution of neural mechanisms for simple and complex learning and memory systems

IS3-1	Glanzman D, Cai D, Chen S, Pearce K	New insights into the mechanisms of long-term memory maintenance in <i>Aplysia</i>
IS3-2	Susswein A, McManus J, Tam S, Hurwitz I, Chiel H	Memory after training with inedible food in <i>Aplysia</i> is localized to multiple sites
IS3-3	Kemenes I	Evolutionary conserved mechanisms of associative learning in <i>Lymnaea</i>
IS3-4	Shomrat T, Turchetti-Maia A, Hochner B	Conservation and convergence in the evolution of the cephalopod neural systems mediating learning and memory

### Plenary Lecture 2 (13:30 – 14:30) Room1

PL-2	Woolley S	Neural mechanisms of auditory-vocal communication: mapping receiver tuning to sender behavior
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### Heiligenberg Lecture (18:30 – 19:30) Room1

PL-9	Zakon H	Electric fish in the age of genomics
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## Wednesday AM, July 30

### Plenary Lecture 3 (8:30 – 9:30) Room1

PL-3	Kanzaki R	Analysis and synthesis of odor-source localization in insects: From genes, neural networks, and behavior to robot
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### Invited Symposium 4 (10:00 – 12:00) Room1

Learned vocal communication in songbirds: Recent developments

IS4-1	Roberts T	A novel motor to auditory circuit is necessary for song learning
IS4-2	Hahnloser R	New approaches to vocal communication and template-based song learning
IS4-3	White S	Cycling in the brain: Molecular insights into procedural learning
IS4-4	Yazaki-Sugiyama Y	Neuronal representations of tutor song experience

### Invited Symposium 5 (10:00 – 12:00) Room2

Coordination of multi legged locomotion

IS5-1	Couzin E, Holmes P, Kiemel T, Ayali A	Leg coordination during cockroach locomotion: experiments and model-based analysis
IS5-2	Borgmann A	Investigating weakly coupled oscillators in the stick insect locomotor system
IS5-3	Cabelguen J	Flexibility of the central pattern generator for locomotion in salamander
IS5-4	Smarandache-Wellmann C	The swimmeret system of crayfish: cellular mechanisms of coordination

### Invited Symposium 6 (10:00 – 12:00) Room3

JSCPB symposium: Third-generation photobiology and its relevance to chronobiology

IS6-1	Honma S, Ono D, Honma K	In vivo monitoring of circadian clock's tick by a bioluminescence reporter: environments to genes and genes to behaviors
IS6-2	Nagata T	Depth perception from defocus of retinal images received by a three-dimensionally distributed visual pigment in a jumping spider eye
IS6-3	Kojima D	Photoreceptors regulating light-induced body color change in zebrafish
IS6-4	Hatori M, Mure L, Panda S	Melanopsin expressing retinal ganglion cells in health and disease

## Wednesday PM, July 30

### Plenary Lecture 4 (13:30 – 14:30) Room1

PL-4	Finlay B	Integrating brain diversity with conserved developmental mechanisms: the case of the isocortex
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### Participant Symposium 1 (15:00 – 17:00) Room1

PS1-1	Silverman J, Schal C	Sugar aversion: A newly-acquired adaptive change in gustatory receptor neurons in the German cockroach
PS1-2	Sutton G, Clarke D, Whitney H, Robert D	Mechanosensory hairs on bumble bees ( <i>Bombus terrestris</i> ) detect electric fields
PS1-3	Rajaraman K, Godthi V, Balakrishnan R	Multimodal duetting in a paleotropical pseudophylline bushcricket
PS1-4	Sumiya M, Fujioka E, Aihara I, Watanabe Y, Riquimaroux H, Ohta T, Hiryu S	Analysis of 3-D acoustic and flight attention of echolocating bats during attacking to multiple target preys in the field
PS1-5	Yoshizawa M, McHenry M, O'Quin K, Keene A, Jeffery W	Adaptive changes in vibration attraction behavior and its sensory receptors promote eye degeneration in the cavefish, <i>Astyanax mexicanus</i>
PS1-6	Takekata H, Satoh A, Numata H, Goto S, Shiga S	The circatidal clock consists of the physiological bases different from the circadian clock in the mangrove cricket

### Participant Symposium 2 (15:00 – 17:00) Room2

PS2-1	Liu T, Chiao C	Neural organization of the optic lobe in controlling body patterns of cephalopods
PS2-2	Kaiser M, Libersat F	The role of the central body complex in the venom induced behavioral manipulation of cockroaches stung by the Jewel Wasp
PS2-3	Jacob P, Hedwig B	Central pattern generator neurons for species-specific singing in cricket species
PS2-4	Dewell R, Gabbiani F	Channels of escape: How the inward rectifying current Ih influences locusts' predator detection
PS2-5	Matsui H, Izawa E	Kinematic analysis of neck-reaching action in Large-billed crows ( <i>Corvus macrorhynchos</i> )
PS2-6	Kagaya K, Patek S	Ultrafast smashing in mantis shrimp: preparatory motor control through spring compression

### Participant Symposium 3 (15:00 – 17:00) Room3

PS3-1	Seltmann S, Trost L, Ter Maat A, Gahr M	The influence of sleep on song-related neuronal activity in RA – What role does Melatonin play?
PS3-2	Kirszenblat L, John J, Zhou Y, Van Swinderen B	Sleep effects on visual selective attention in <i>Drosophila melanogaster</i>
PS3-3	Simcock N, Wakeling L, Wright G	Learned toxin avoidance depends on satiety state in the honeybee
PS3-4	Van Nest B, Marrs G, Fahrbach S	Synaptic correlates of performance on an ecologically relevant visual discrimination task in the adult honey bee mushroom body
PS3-5	Reber T, Dacke M, Baird E	Indications of visual lateralization in flight control
PS3-6	Rubin A, Yartsev M, Ulanovsky N	'Map-and-compass neurons' in the bat hippocampus

### Young Investigator Award Symposium (17:30 – 19:30) Room1

YS-1	Day N, White S	FoxP2 overexpression in adult zebra finches impacts song
YS-2	Stamper S, Madhav M, Jayakumar R, Fortune E, Cowan N	Quantifying complex electrosocial interactions and movement in natural populations of <i>Eigenmannia</i>
YS-3	Sponberg S, Dyrh J, Hall R, Daniel T	Motor consequences of visual adaptations for moths hovering in low-light environments
YS-4	Greif S, Borissov I, Yovel Y, Holland R	A functional role of the sky's polarization pattern for orientation in the greater mouse-eared bat, <i>Myotis myotis</i>

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## Thursday, July 31

### Plenary Lecture 5 (8:30 – 9:30) Room1

PL-5	Yoshihara M	The <i>Drosophila</i> feeding circuit to connect synaptic plasticity to memory
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### Special symposium honoring Mark Konishi (10:00 – 12:00) Room1

SS-1	Wagner H, Christensen-Dalsgaard J, Kettler L, Larsen O	Improvement of directionality and sound localization by internal ear coupling in barn owls
SS-2	Pena J, Cazettes F, Fischer B	From a non-uniform brain map to non-uniform behavior in the owl
SS-3	Fujita I	One 3D visual world constructed by two eyes and two cortical pathways
SS-4	Margoliash D	Connecting neurophysiology to movements in birdsong motor control: neuromechanics and neuroethology

### Plenary Lecture 6 (13:30 – 14:30) Room1

PL-6	Zeil J	Visual homing in insects
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### Huber Lecture (18:30 – 19:30) Room1

PL-10	Roberts A	The formation and function of the first networks controlling behaviour in a very small vertebrate
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# Friday AM, August 1

## Plenary Lecture 7 (8:30 – 9:30) Room1

PL-7	Szczupak L	Recurrent inhibition in motor systems, a functional analysis in the leech nervous system
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## Invited Symposium 7 (10:00 – 12:00) Room1

Action selection: the role of the insect central complex

IS7-1	Ritzmann R, Martin J	Neural and behavioral studies of the cockroach central complex reveal roles in directing locomotion and action selection
IS7-2	Heinze S, Green K, Wcislo W, Warrant E	Common principles within the insects for encoding sky compass cues in the central complex
IS7-3	Webb B, Stone T	Computational modelling of the central complex: which way to go?
IS7-4	Jayaraman V	Linking vision and action in the <i>Drosophila</i> central complex

## Invited Symposium 8 (10:00 – 12:00) Room2

Avian models of cognitive development

IS8-1	McCabe B	Imprinting, recognition memory and sleep
IS8-2	Homma K	Thyroid hormone confers “memory priming” to start the sensitive period of imprinting in birds
IS8-3	Rosa Salva O, Mayer U, Regolin L, Vallortigara G	The domestic chick as an animal model of early social predisposition
IS8-4	Senju A	Predispositions to conspecifics in human infants

## Invited Symposium 9 (10:00 – 12:00) Room3

Evolution of Parental Behaviors

IS9-1	Rosenfeld C	Endocrine disruption of evolutionary evolved maternal and paternal behaviors in monogamous, biparental California mice ( <i>Peromyscus californicus</i> )
IS9-2	Angelier F	Providing parental care in a stressful environment: a study of the endocrine regulation of parental behavior in birds
IS9-3	O’Connell L	The soft side of a killer: neuroendocrine basis of parental care in poison frogs
IS9-4	Moore A	The evolution of sex differences in parenting

# Friday PM, August 1

## Plenary Lecture 8 (13:30 – 14:30) Room1

PL-8	Maclver M	Convergent evolution of mechanically optimal locomotion and its implications for information acquisition
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## Invited Symposium 10 (15:00 – 17:00) Room1

Decision making in worms, insects and vertebrates: Are there common principles or mechanisms?

IS10-1	Mori I	Unveiling principle of neural circuits underlying learning, memory and decision-making
IS10-2	Guo A, Zhang K, Su H	The gain-gating mechanism implements decision making in fruit fly <i>Drosophila</i>
IS10-3	Okamoto H	Habenula as a switch board of emotion
IS10-4	Komiyama T	Imaging neural ensembles during learning

## Invited Symposium 11 (15:00 – 17:00) Room2

Deep homology of circuits underlying behavioral actions

IS11-1	Strausfeld N, Edgecombe G, Ma X	Ecology, predation, and neural ground patterns in deep time
IS11-2	Wolff G, Strausfeld N	Ancient memories: genealogical correspondence of learning and memory centers across phyla
IS11-3	Hirth F	Evolutionary conserved neural circuitry for the selection and maintenance of behavioural activity
IS11-4	Fox J	Evolution and diversity of mechanosensory organs for flight control

## Invited Symposium 12 (15:00 – 17:00) Room3

In the footsteps Karl von Frisch: 100 years of investigations into insect color and polarization vision

IS12-1	Kinoshita M	Brain structure and visual abilities for foraging in the Japanese yellow swallowtail butterfly, <i>Papilio xuthus</i>
IS12-2	Tanimoto H, Vogt K, Schnaitmann C, Aso Y, Rubin G, Wachtler T, Garbers C	Neural circuits for colour discrimination and learning
IS12-3	Zeller M, Berz A, Heinloth T, Held M, Hensgen R, Peters S, Homberg U, Pfeiffer K	The polarization-vision pathway of bees
IS12-4	Dyer A, Boyd-Gerny S, Wong B	Innate colour preferences of the Australian native stingless bee <i>Tetragonula carbonaria</i> : lessons from a geologically separated land

## Poster Session 1 Tuesday, July 29 (14:30 – 18:30)

<b>Vision I</b>		
PO-1001	Langridge K, Wilke C, Riabinina O, Vorobyev M, Hempel de Ibarra N	Landing determines pattern learning in bees
PO-1002	Rodriguez-Girones M, Telles F	Effect of flower colour, size and scent on the search time of foraging bumblebees
PO-1003	Ogawa Y, Narendra A, Zeil J, Hemmi J	Three spectrally distinct photoreceptor types in a nocturnal bull ant, <i>Myrmecia vindex</i>
PO-1004	Wu S, Nern A, Rubin G, Reiser M	Behavioral genetic investigation of columnar circuits for motion vision in <i>Drosophila</i>
PO-1005	Morimoto M, Wu M, Nern A, Rubin G, Reiser M	Functional investigation of a visual projection neuron in <i>Drosophila</i>
PO-1006	Gray J, Dick P	Multi-neuronal responses from locusts presented with complex object motion
PO-1007	Rind F, Wernitznig S, Leitinger G, Pölt P, Zankel A	Collision detecting neurons in the locust lobula and their input connectomes
PO-1008	Honkanen A, Takalo J, Heimonen K, Weckström M	The effect of ocellar occlusion on the optomotor performance of the American cockroach
PO-1009	Stewart F, Kinoshita M, Arikawa K	Opposing effects of expansion and parallax cues in foraging butterflies
PO-1010	Chen P, Awata H, Matsushita A, Arikawa K	A blue-absorbing pigment causing a dual-peaked blue receptor in the eye of the butterfly <i>Graphium sarpedon</i>
PO-1011	Weckström M, Hamanaka Y, Kinoshita M, Arikawa K	How is wavelength information coded in photoreceptor axons and second order neurons in the lamina of the Japanese yellow swallowtail butterfly, <i>Papilio xuthus</i> ?
PO-1012	Mitkus M, Kelber A	Visual acuity and contrast sensitivity for a large-field moving stimulus in budgerigars
PO-1013	Haller N, Lind O, Steinlechner S, Kelber A	Stimulus motion improves contrast sensitivity in budgerigars ( <i>Melopsittacus undulatus</i> )
PO-1014	Lovell P, Sanghera S, Penacchio O, Harris J, Ruxton G, Cuthill I	Optimising countershading for camouflage: matching the light environment increases survival
PO-1015	Thoen H, Strausfeld N, Marshall J	Colour and polarisation processing in Stomatopods
PO-1016	Templin R, How M, Gagnon Y, Roberts N, Marshall J	Circular polarisation vision in the stomatopod <i>Gonodactylaceus falcatus</i>
PO-1017	Chiou T, Marshall J	Electroretinogram of a stomatopod crustacean <i>Haptosquilla tuberosa</i>
PO-1018	Marshall J, Gagnon Y, Thoen H, Templin R, Cronin T, Roberts N, How M, Temple S, Gruev V, Powell S	Polarisation Vision: the new currency of communication
PO-1019	Warrington R, Hart N, Davies W, Gill H, Potter I, Hunt D, Collin S, Hemmi J	Spectral sensitivity of two species of Southern Hemisphere Lamprey <i>Mordacia mordax</i> (Richardson) and <i>Mordacia praecox</i> (Potter)
PO-1020	How M, Christy J, Temple S, Zeil J, Marshall J, Roberts N	Fiddling with eye design: the comparative architecture of polarization vision in the genus <i>Uca</i>
PO-1021	Newport C, Wallis G, Siebeck U	Recognition of depth-rotated human faces by fish
PO-1022	Ben-Tov M, Donchin O, Ben-Shahar O, Segev R	Pop-out visual search of moving targets in the archer fish
PO-1023	Gutfreund Y, Dutta A	Stimulus specific adaptation of common visual features may contribute to "pop-out" perception: an electrophysiological study in the barn owl"
PO-1024	Orlowski J, Wagner H	Visual search behavior in barn owls
PO-1025	Schuckel J, Wiederman S, Wcislo W, O'Carroll D, Warrant E	Seeing during the day and night-a novel application of a liquid crystal display for mapping the receptive fields of light and dark adapted photoreceptors in insects
<b>Audition I</b>		
PO-1026	Sawa Y, Araki H, Takeda Y, Riquimaroux H	A study for an application of bat sensing algorithm to radar systems

## Poster Session 1 Tuesday, July 29 (14:30 – 18:30)

PO-1027	Surlykke A, Geberl C, Brinkløv S, Wiegrebe L	What's the buzz? Sensory-motor coupling during high-speed echolocation in bats
PO-1028	Linnenschmidt M, Enghofer M, Wiegrebe L	Biosonar accommodation in phyllostomid bats
PO-1029	Hyomoto K, Fujioka E, Watanabe Y, Riquimaroux H, Ohta T, Hiryu S	Direction and acoustic characteristics of pulses emitted by FM bats ( <i>Pipistrellus abramus</i> ) during group flight in the field
PO-1030	Ono S, Okanoya K, Seki Y	An oddball task of sound sequence discrimination in songbird auditory forebrain
PO-1031	George I, De Groof G, Cousillas H, Hausberger M, Van der Linden A	Functional changes between seasons in the songbird brain
PO-1032	Rodríguez-Saltos C, Lyons S, Sockman K, Maney D	Dopaminergic responses to song in the songbird auditory forebrain
PO-1033	Willis K, Carr C	Anatomical and physiological characterization of the turtle sound localization circuit
PO-1034	Morimoto T, Kobayasi K, Riquimaroux H	Encoding of temporal pitch revisited: Evaluation by cochlear microphonics
PO-1035	Murai S, Asaka G, Takabayashi M, Itagaki S, Kobayasi K, Auracher J, Riquimaroux H	Brain activity involved in semantic concepts from acoustic characteristics of phonemes
PO-1036	Kostarakos K, Römer H	Neural mechanisms for signal detection under noise in a katydid
PO-1037	Hennig R, Gray D	A comparative approach to acoustic pattern recognition in crickets
PO-1038	Pollack G, Morley E, Mason A	Sensory adaptation affects sound localization cues in <i>Ormia ochracea</i>
PO-1039	Bee M, Schrode K	Auditory perceptual binding in treefrogs
PO-1040	Matsui S, Kobayasi K, Riquimaroux H	Optical stimulation to cochlear nerves evaluated by optical and acoustic interactions
PO-1041	Kai K, Kumaraswamy A, Rautenberg P, Wachtler T, Ikeno H, Ai H	Neural basis of vibratory signal processing of the honeybee <i>Apis mellifera</i>
PO-1042	Zhemchuzhnikov M, Zhao X, Pfuhl G, Berg B	Representation of auditory information and its integration with odor signals in the central nervous system of moths
<b>Olfaction and Taste I</b>		
PO-1043	Yamaji K, Okado K	Odor-based mechanical transmission of bacteria by fly feces
PO-1044	Locatelli F, Marachlian E	Experience-dependent tuning of olfactory perception in honey bees
PO-1045	Nishino H, Iwasaki M, Yoritsune A, Kamimura I, Mizunami M	Sensing the structural architecture of odor plumes with a single antenna
PO-1046	Tejima S, Ono T, Sakuma M	Sex pheromone source orientation by aim-then-shoot anemotaxis in moths
PO-1047	Wasserman S, Aptekar J, Lu P, Wang A, Nguyen J, Krantz D, Larsen C, Frye M	A novel class of visual motion detecting neurons in <i>Drosophila integrates</i> olfactory information
PO-1048	Ian E, Siri L, Berg B	Anatomical and physiological properties of antennal-lobe output neurons projecting in parallel tracts
PO-1049	Tang Q, Zhan H, Dang J, Zhao X, Berg B	Insect gustation: neural responses, sensory projections, and behaviors in larvae of the cotton bollworm <i>Helicoverpa armigera</i>
PO-1050	Wang C	The peripheral pheromone olfactory system in two moth species, <i>Helicoverpa armigera</i> and <i>Helicoverpa assulta</i>
PO-1051	Zhang Y, Huang L, Wang C	Tarsal taste neuron activity and proboscis extension reflex in two moth species, <i>Helicoverpa armigera</i> and <i>Helicoverpa assulta</i>
PO-1052	Dacher M, Rouyar A, Limousin D, Wycke M, Le Floc'h M, Girou C, Renou M	Effect of a contextual odor on perception and response to sexual pheromone in the moth <i>Agrotis ipsilon</i>
PO-1053	Ozaki M, Takeichi Y, Hojo M, Ishii K, Sakura M, Shigenobu S, Ozaki K, Yasuyama K, Miyazaki N, Murata K	Sensory system for nestmate-nonnestmate discrimination of ant, <i>Camponotus japonicus</i> : Receptor molecules and neurons

## Poster Session 1 Tuesday, July 29 (14:30 – 18:30)

PO-1054	Hernández-Salazar L, Pablo-Rodríguez M, Aureli F, Shaffner C	Sucrose influences fruit selection and consumption in wild spider monkeys ( <i>Ateles geoffroyi</i> )
<b>Mechanosensation</b>		
PO-1055	Liao J, Akanyeti O, Ballo A, Haehnel-Taguchi M, Levi R	Responses of larval zebrafish to single neuromast deflections in the lateral line system
PO-1056	Yano T, Yokoyama T, Tsubouchi A, Ito K	Functional mapping of the somatosensory center of <i>Drosophila melanogaster</i>
PO-1057	Hiraguchi T, Tomioka K, Yamaguchi T	The efficacy of vibration in behavioral selection
PO-1058	Fox J	Dynamics of mechanosensory and visual information integration in flies
PO-1059	Takanashi T, Fukaya M, Nishino H	Substrate vibrations mediate startle behavior via femoral chordotonal organ in a cerambycid beetle
PO-1060	Someya M, Ogawa H	Multisensory integration of auditory and cercal sensory inputs by ascending projection neurons in the cricket
PO-1061	Russell J, Vidal-Gadea A, Makay A, Laham R, Pierce-Shimomura J	Humidity sensation requires both mechanosensory and thermosensory pathways in <i>C. elegans</i>
PO-1062	Umesh, M, Sunil, P, Sane S	Responses of descending interneurons to mechanical & visual stimuli in Oleander hawk moths
PO-1063	Tsubouchi A, Caldwell J, Robertson J, Tracey W, Yokoyama T, Ito K	Anatomical and behavioral analysis of mechanosensory neurons in <i>Drosophila</i>
PO-1064	French A, Li A, Meisner S, Torkkeli P	The transcriptome of the spider <i>Cupiennius salei</i> peripheral nervous system – identifying genes involved in mechanosensation
PO-1065	Martínez-Vaca León O, Morales Mávil J, Hernández-Salazar L, Gutiérrez García A, Bernal-Morales B, Rodríguez-Landa J	Perception of vibrations produced by potential prey in the Mexican horned pit viper <i>Ophryacus undulatus</i>
<b>Sensorimotor Integration I</b>		
PO-1066	Ma S, Gahr M	Sensorimotor feedback maintains auditory objects formation
PO-1067	Seki Y, Okanoya K	Capability for rhythmic synchronization in two avian species
PO-1068	Asaka G, Kobayashi K, Riquimaroux H	Preciseness of tapping performance to auditory rhythm : Effects of attention on period and phase corrections
PO-1069	Martin-Peña A, Acebes A, Rodriguez J, Chevalier V, Casas-Tintó S, Triphan T, Strauss R, Ferrus A	Cell types and coincident synapses in the ellipsoid body of <i>Drosophila</i>
PO-1070	Willis M, Milligan J, Avondet J, Tylicki K, Brown K	Interaction of odor environment, odor sensors and mode of locomotion determine plume tracking behavior
PO-1071	Ohyama T, Schneider-Mizell C, Truman J, Fetter R, Cardona A, Zlatic M	Multilevel multimodal convergence starting at the earliest stages of sensory processing in a <i>Drosophila</i> larval escape circuit
PO-1072	Von Reyn C, Breads P, Peek M, Williamson W, Card G	Action selection during visually-evoked escape behavior
PO-1073	Kothari N, Wohlgemuth M, Moss C	Neural recordings in the superior colliculus of freely flying bats
PO-1074	Wohlgemuth M, Moss C	LFP's in the superior colliculus of echolocating bats are tied to ongoing behaviors
PO-1075	Silva V, Yoshida M	Identification of cerebellar neurons in Japanese catfish ( <i>Silurus sp.</i> )
<b>Motor Systems I</b>		
PO-1076	Yoshimura K, Sasaoka Y, Johnson A, Ellers O, Motokawa T	The sea urchin <i>Diadema setosum</i> uses only ca. 10 spines in fast walk
PO-1077	Haspel G	Activity and connectivity of <i>C. elegans</i> locomotion network
PO-1078	Minegishi R, Kurabayashi D, Kanzaki R	Analysis of protocerebral neural activity relating to odor source searching locomotion of silkworm moth
PO-1079	Peek M, Namiki S, Card G	Parallel descending pathways for visually-evoked escape in <i>Drosophila</i>

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PO-1080	Kohsaka H, Takasu E	Speed of axial locomotion is regulated by local inhibitory interneurons in <i>Drosophila</i> larvae
PO-1081	Namiki S, Dickinson M, Wong A, Rubin G, Korff W, Card G	Organization of descending interneurons in <i>Drosophila</i>
PO-1082	Takaki K, Ichikawa T, Yamawaki Y	Neural mechanisms controlling foreleg movements of the praying mantis: roles of coxal muscles in capturing behavior
PO-1083	Tanaka K, Ito S, Kurokawa M	Neural control of the rectum in the penaeid shrimp, <i>Marsupenaeus japonicus</i>
PO-1084	Tomina Y, Takahata M	Electromyographic analysis of goal-directed gripping action in American lobster
PO-1085	Hall I, Kelley D	The role of the amygdala in the generation of different vocal patterns in <i>Xenopus</i>
PO-1086	Perry J, Lawton K, Appleby T, Yamaguchi A, Zornik E	Neurocircuitry underlying vocal production of the African clawed frog, <i>Xenopus laevis</i>
PO-1087	Barnes J, Appleby T, Yamaguchi A	Bilateral coordination of vocal pathways in African clawed frogs, <i>Xenopus laevis</i>
PO-1088	Barkan C, Kelley D	Generating species-specific vocal patterns
PO-1089	Düring D, Rasmussen J, Elemans C	Sound production and control of the songbird syrinx <i>ex vivo</i>
PO-1090	Hafzalla G, White S, Miller J	Consequences of experimental dopamine depletion in the songbird basal ganglia
<b>Learning, Memory, &amp; Behavioral Plasticity I</b>		
PO-1091	Mizuhara T, Suzuki K, Kato M, Okanoya K	Expression pattern of language-related genes in brain of Bengalese finch ( <i>Lonchura striata</i> var. <i>domestica</i> ) and white-rumped munia ( <i>Lonchura striata</i> )
PO-1092	Bischof H, Voutchkov E	Gating of the sensitive period for sexual imprinting in the zebra finch by GABAergic inhibition?
PO-1093	Flecke C, Yazaki-Sugiyama Y	Sensory memory forms in the caudomedial nidopallium during song learning
PO-1094	Batista G, Pena J, Costa-Mattioli M	Auditory imprinting in chickens: role of PKR and thyroid hormones
PO-1095	Suge R, Nicol A, McCabe B	Sleep and Fos-like immunoreactivity in a chick forebrain memory system after filial imprinting
PO-1096	Yagi R, Tanaka N	Convergence of putative multimodal sensory input to the protocerebral areas in <i>Drosophila</i>
PO-1097	Terao K, Matsumoto Y, Mizunami M	Critical evidence for the prediction error theory in associative learning
PO-1098	Ito E, Lukowiak K	Necessity knows no law-How hunger and context triumph over memory
PO-1099	Wang M, Chittka L	Individual consistency in bumblebee speed-accuracy tradeoff decisions when foraging under predation threat
PO-1100	Yoshida M, Matsuda K, Shimizu T, Hibi M	Classical heart rate conditioning and underlying cerebellar circuit in young zebrafish
PO-1101	Sungkamane S, Wattanathorn J, Muchimapura S	Combined extract of <i>Morus alba</i> and <i>Polygonum odoratum</i> improves memory impairment and osteoporosis in an ovariectomized rats model
PO-1102	Hosono S, Matsumoto Y, Mizunami M	Conditioning parameters for long-term memory formation in the cockroach
PO-1103	Nagayama T, Suzuki N, Shiratori C	Reversal of phototaxis of the marbled crayfish
PO-1104	Minami H, Momohara Y, Nagayama T	Long-term memory of social dominant and subordinate statuses in the crayfish
PO-1105	Momohara Y, Nagayama T	Serotonin and octopamine affect winner and loser effects during agonistic encounters of the crayfish
PO-1106	Urlacher E, Verlinden H, Massou I, Devaud J, Mercer A	Allatostatins are inhibitory neuropeptides modulating appetitive learning in the honey bee
PO-1107	Tedjakumala S, McQuillan H, Despouy E, Urlacher E, Mercer A, Giurfa M	Aversive learning increases the expression of dopamine-receptor genes in specific cell populations of the honey bee brain

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PO-1108	Takigami S, Sakakibara M	Facilitatory enhanced methods for taste avoidance conditioning in <i>Lymnaea stagnalis</i>
PO-1109	Turchetti-Maia A, Hochner B, Shomrat T	Nitric oxide synthase (NOS) mediates activity-dependent plasticity in an area of the octopus brain involved in learning and memory
<b>Hormones and Sex Differences</b>		
PO-1110	Hall Z, Healy S, Meddle S	A role for nonapeptides in zebra finch nesting behaviour
PO-1111	Quispe R, Gahr M	Seasonal changes in testosterone levels, singing behavior and sensitivity to androgens in the HVC of an Amazon songbird, <i>Ramphocelus carbo</i> (Thraupinae), in a lowland equatorial population
PO-1112	Sasaki K, Matsuyama S, Nagao T	Nutritional regulation of the brain levels of dopamine and tyramine to promote the transition from normal to reproductive workers in queenless colonies of honey bees
PO-1113	Marchal P, Silva A	Behavioral characterization and hormonal basis of territory establishment in a year-round aggressive weakly electric fish
PO-1114	Umatani C, Abe H, Oka Y	Neuromodulatory effects of terminal nerve GnRH neurons in the fish visual system
PO-1115	Rodríguez-Landa J, Hernández-López F, Puga-Olguin A, Germán-Ponciano L, Bernal-Morales B, Rivadeneyra-Domínguez E, Herrera-Huerta E	Modulation of anxiety-like behaviour by GABAergic compounds microinjected into the dorsal hippocampus in cycling female Wistar rats
PO-1116	Matsumoto Y, Kasahara T, Okanoya K	Melatonin productivity influences male ultrasonic courtship vocalizations in laboratory mice
PO-1117	Paramanik V, Thakur M	Estrogen receptor $\beta$ interacting proteins in brain
<b>Genes and Behavior I</b>		
PO-1118	Li M, Peng Q, Liu L	Molecular characterization of long noncoding RNAs in <i>Drosophila</i>
PO-1119	Robie A, Kabra M, Hirokawa J, Edwards A, Korff W, Rivera-Alba M, Branson K	Mapping behavior to neural anatomy in <i>Drosophila melanogaster</i>
PO-1120	Liu J, Gong Z, Liu L	$\gamma$ -glutamyl transpeptidase specifically suppresses green-light avoidance via GABAA receptor in <i>Drosophila</i>
PO-1121	Kimura K, Sato C, Koganezawa M, Yamamoto D	Doublesex-expressing neurons controlling female reproductive behavior in <i>Drosophila</i>
PO-1122	Renn S	Molecular modules of maternal care: Neural gene expression in the mouth-brooding cichlid <i>A. burtoni</i>
PO-1123	Toriyabe H, Yamada K, Sawamura Y, Iino Y	Identification of genes involved in the pheromone signaling that regulates olfactory plasticity in <i>C. elegans</i>
PO-1124	Rankin C, Giles A, McEwan A, Kerr R, Podgorski K, Haas K	High throughput phenotypic profiling leads to insights into mechanisms of habituation in <i>C. elegans</i>
PO-1125	Tsuboko S, Kimura T, Shinya M, Suehiro Y, Okuyama T, Shimada A, Takeda H, Naruse K, Kubo T, Takeuchi H	Searching for genes affecting visually-evoked startle response properties with inbred strains of Medaka ( <i>Oryzias latipes</i> )
PO-1126	Mori C, Wada K	Robustness of developmental gene expression dynamics for vocal learning
PO-1127	Neretina T, Vedenina V	A role of the gene fruitless in inheritance of the grasshopper song
PO-1128	Suenami S, Paul R, Fujiyuki T, Shirai K, Kunieda T, Takeuchi H, Kubo T	Promoter analysis of the mushroom body-preferential genes of the honeybee
PO-1129	Ugajin A, Kunieda T, Ono M, Kubo T	Analysis of high-temperature sensitive neural activity in the brains of honeybee workers using immediate early genes
<b>Development</b>		
PO-1130	Spencer K, Boogert N, Zimmer C	Mum's the word: trans-generational transmission of phenotypes programmed by early-life stress
PO-1131	Miura M, Matsushima T	Function of object motion preference in newly hatched domestic chicks: facilitation of imprinting by point-light animation mimicking a walking hen

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PO-1132	Araki H, Sawa Y, Morimoto T, Riquimaroux H	A telemetry measurement for neural activities
PO-1133	Carle T, Yamawaki Y, Watanabe H, Yokohari F	Peripheral olfactory system in praying mantis ( <i>Tenodera aridifolia</i> ): its structures and development
PO-1134	Asaoka Y, Nishina H	Hippo signaling regulates a switch between retinal progenitor cell proliferation and photoreceptor cell differentiation in zebrafish
PO-1135	Isoe Y, Okuyama T, Hoki M, Yamagishi G, Naruse K, Kinoshita M, Kamei Y, Shimizu A, Kubo T, Takeuchi H	Analysis of mechanism underlying brain growth accompanied by neurogenesis using medaka fish ( <i>Oryzias latipes</i> )
PO-1136	Jones T, Extavour C	Characterization of molecules involved in neural development in the cricket, <i>Gryllus bimaculatus</i>
PO-1137	Narayanan D, Takahashi D, Kelly L, Hlavaty S, Ghazanfar A	The prenatal origins of “innate” vocalizations in marmoset monkeys
PO-1138	Takahashi T, Ohnishi H, Sugiura Y, Honda K, Suematsu M, Kawasaki T, Deguchi T, Fujii T, Orihashi K, Hippo Y	Intestinal epithelial cells secrete acetylcholine as a non-neuronal autocrine or paracrine signal in mice
PO-1139	Bellanger C, Di Poi C, Bidel F, Jozet-Alves C, Dickel L, Boulouard M, Darmailacq A	Behavioral and cerebral changes occur in cuttlefish with perinatal exposure to antidepressants
<b>Evolution</b>		
PO-1140	Gallant J	The transcriptional basis of electric organ evolution
PO-1141	Hager R, Gini B	Coadaptation between maternal and offspring genome mediated by X chromosomal loci
PO-1142	Sakurai A, Gunaratne C, Katz P	Comparative studies and dynamic clamp analyses reveal diverse neural network mechanisms underlying analogous behaviors
PO-1143	Christensen-Dalsgaard J, Christensen C, Madsen P	Evolution of the tetrapod middle ear
PO-1144	Moran D, Softley R, Warrant E	The energetic cost of vision in Mexican cavefish
PO-1145	Koizumi O, Hamada S, Minobe S, Hamaguchi-Hamada K, Kurumata-Shigeto M	Nerve ring of cnidarians: Origin and evolution of the central nervous system
PO-1146	Kawamori A, Kutsukake N	Phylogenetic comparative approach for detecting accelerated selective pressures in brood-parasitic cowbirds
PO-1147	Vaelli P, Theis K, Coddington E, Eisthen H	Microbial origins and physiological consequences of tetrodotoxin toxicity in the rough-skinned newt ( <i>Taricha granulosa</i> )
PO-1148	Zhukovskaya M, Novikova E	Stress-induced grooming in insect: similarity with rodent model
<b>Orientation and Navigation I</b>		
PO-1149	Vidal-Gadea A, Ward K, Beron C, Ghorashian N, Russell J, Ben-Yakar A, Pierce-Shimomura J	Magnetosensitive neurons mediate magnetic orientation in <i>C. elegans</i>
PO-1150	Finkelstein A, Sarel A, Las L, Ulanovsky N	Representation of goals in the bat hippocampus
PO-1151	Las L, Eliav T, Vecht J, Ulanovsky N	Developing methods for multi-channel neural recording and stimulation in freely flying bats
PO-1152	Trent S, Davis K, Smotherman M	Echolocating bats suppress echolocation by bats flying around other bats
PO-1153	Klopper L, Gaudette J, Simmons J, Buck J	Influence of mouth opening and gape angle on the transmitted signals of big brown bats ( <i>Eptesicus fuscus</i> )
PO-1154	Collett M	Modulating novelty in ant navigation
PO-1155	Bertrand O, Lindemann J, Egelhaaf M	Collision avoidance based on insect elementary movement detectors
PO-1156	Haberkern H, Hedwig B	Integration of responses to antennal stimulation and phonotaxis in the walking cricket



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PO-1157	Ando N, Kanzaki R	How do walking silkmoths find the direction of an odor source?
PO-1158	Suzuki Y, Aonishi T, Seki Y, Miyakawa H, Morimoto T	Neural basis of robust behavioral control in insect
PO-1159	Theobald J, Caballero J, Mazo C	Fruit fly tracking responses and the visual horizon
PO-1160	Sakura M, Kobayashi N, Okada R	Orientation to the polarized light in flying honeybees
PO-1161	Van Kleef J, Massey T, Maharbiz M	An eye for every occasion: as light levels dwindle locusts switch from compound eyes to ocelli as their source of visual-feedback for roll
PO-1162	Raja S, Robert T, Collett T, Hempel de Ibarra N	Modulation of height during the learning flights of the bumblebee, <i>Bombus terrestris</i>
<b>Social Behavior I</b>		
PO-1163	Watanabe S	Social equality and inequality affect stress-induced hyperthermia in mice
PO-1164	Chabout J, Jarvis E	Social context modification of mouse song
PO-1165	Seagraves K, Berman G, Egnor S	Distinct ultrasonic vocal repertoires are elicited by females and female chemosensory cues
PO-1166	Tanaka T, Nixima K, Okanoya K	Termination of positive emotion elicits negative vocalizations in rats
PO-1167	Versace E, Vallortigara G	Preferences for hollow vs. filled social partners in young domestic chicks
PO-1168	Amita H, Mizuyama R, Uno R, Matsushima T	Competition meets risk to yield impulsiveness: suppressed representation of food reward in ventral striatum of domestic chicks
PO-1169	Ogura Y, Xin Q, Matsushima T	Involvement of substantia nigra but not the dopaminergic neurons in social facilitation of foraging efforts in domestic chicks
PO-1170	Worm M, Toma R, Prume J, Von der Emde G	A mobile fish dummy for the investigation of electrocommunication patterns in weakly electric fish
PO-1171	Silva A, Pouso P, Goodson J	Vasotocin and Isotocin neuronal activation in the courtship of a weakly pulse-type electric fish
PO-1172	Perrone R, Silva A	Violence vs adaptive aggression in a non-traditional model system
PO-1173	Dyakonova V, Krushinsky A, Boldyshev B	Effects of concurrent activation of serotonergic and octopaminergic systems on posture and aggression of male crickets, <i>G. bimaculatus</i>
PO-1174	Ai H, Kishi N	How does the waggle dance communication mature after the adult emergence?
PO-1175	Parent C, Jarvis E	Insights into the neural mechanisms of music from a cross-species perspective
PO-1176	Ishikawa Y, Aonuma H, Sasaki K, Miura T	Neurophysiological mechanisms underlying the defensive task allocation in termites
<b>Computational Modeling</b>		
PO-1177	Szczecinski N, Martin J, Quinn R, Ritzmann R	Modeling mantis prey tracking with head, prothoracic and thoracic movements
PO-1178	Newland P, Endo W, Simpson D, Maciel C	Delayed mutual information infers patterns of synaptic connectivity in a proprioceptive neural network
PO-1179	Aihara I, Fujioka E, Hiryu S	Mathematical and experimental studies on prey pursuit by echolocating bats
PO-1180	Kashimori Y	Neural mechanism of phase-locked responses of inferior colliculus neurons to sinusoidally amplitude-modulated signals
PO-1181	Akiyama Y, Inoue T, Agata K	Analysis of binocular photosensory system of planarian, <i>Dugesia japonica</i>
PO-1182	Goto A, Kazawa T, Miyamoto D, Tabuchi M, Kanzaki R	Examination of stimulus pattern and neuronal morphology for efficient biophysical property estimation of neurons in the silkmoth antennal lobe
<b>Novel Tools and Methods</b>		
PO-1183	Bernal-Morales B, Rivadeneyra-Domínguez E, Rodríguez-Landa J	The swimming test for neurotoxicological studies
PO-1184	Bhagavatula P, Barrie F	A low cost Global Positioning System to study bird navigation
PO-1185	Taylor G, Moore R, Paulk A, Pearson T, Van Swinderen B, Srinivasan M	Using FicTrac to accurately measure the motion of animals walking in virtual reality

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PO-1186	Peckmezian T, Taylor P, Hunsburger G, Lee R	Spiders in virtual space: A novel paradigm for studying cognition in jumping spiders
PO-1187	Watanabe T, Aonuma H	Development of tools for behavioral neurogenetics in the field cricket <i>Gryllus bimaculatus</i>
PO-1188	Schmitt F, Wegener C, Rössler W	Discovering neuropeptides in the ant <i>Cataglyphis fortis</i> - a novel approach on the investigation of neuropeptides
PO-1189	Massey T, Van Kleef J, Maharbiz M	Carbon fiber microelectrode arrays for chronic recording in insects
PO-1190	Mitsuno H, Sakurai T, Iwamatsu T, Namiki S, Kanzaki R	Development and performance evaluation of a novel cell-based odorant sensor element based on insect odorant receptors
PO-1191	Iwamatsu T, Mitsuno H, Kazawa T, Sakurai T, Kanzaki R	A high-throughput functional assay system of insect odorant receptors expressed in Sf21 cells
PO-1192	Miyamoto D, Kazawa T, Goto A, Ikeno H, Kanzaki R	Constructing a massively parallelized morphological detailed neural circuit simulation of silkworm brain with neuron database
PO-1193	Murtin C, Rousseau D, Frindel C, Ito K	3-dimensional Image registration for the fluorescent confocal microscopy image stacks of the <i>Drosophila melanogaster</i> brain
PO-1194	Harley C, Sanders M, Mesce K, Thompson K	Seeing a new silver lining: Imaging silver-impregnated histological preparations with confocal microscopy
PO-1195	Chen K, Yang T, Huang W, Tsai H, Liu C	Tetramethylpyrazine diminishes cerebral ischemic damage and improves survival time in experimental heat stroke
PO-1196	Yang T, Liu C, Lin T, Tsai M	Prevention of UVA irradiation-induced collagen decrement in human fibroblasts by lycogen

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<b>Vision II</b>		
PO-2001	Salmela I, Takalo J, Immonen E, Weckström M	The effect of photon shot noise and phototransduction noise on information transfer in photoreceptors
PO-2002	Manchester C, Gray J	Flight muscle coordination and body orientation during collision avoidance in flying locusts
PO-2003	Raderschall C, Narendra A, Zeil J	Navigation at night a balancing act: Head stabilisation in <i>Myrmecia</i> ants during twilight
PO-2004	Ardin P, Mangan M, Webb B	Navigation and the visual world of the desert ant
PO-2005	Matsuo Y, Uozumi N, Matsuo R	Negative phototropotaxis using bilateral eyes in the terrestrial slug <i>Limax</i>
PO-2006	Gilbert C, Zurek D	An insight into situational gaze movements of jumping spiders
PO-2007	Scholtysssek C, Dacke M, Baird E	Control of self-motion in water and air: fish do it differently from bees
PO-2008	Ben-Tov M, Segev R	The connection between single cells properties in the early visual system and natural scene statistics: a lesson from the archer fish
PO-2009	Olsson P, Lind O, Kelber A	Bird colour vision: Behavioural thresholds and receptor noise
PO-2010	Wilby D, Toomey M, Olsson P, Oulton R, Kelber A, Corbo J, Roberts N	The avian photoreceptor as a composite optical device
PO-2011	Nagloo N, Hart N, Hemmi J, Collin S	Vision in Australian crocodiles
PO-2012	Kingston A, Cronin T	Evidence of short-and long-wavelength sensitive opsins in the retina and nerve cord of the crayfish, <i>Procambarus clarkii</i>
PO-2013	Phillips G, Cheney K, Lange J, How M, Marshall J	The humble humbug: a master of disguise
PO-2014	Chung W, Marshall J	Complex visual adaptations in squid for different environments
PO-2015	Hemmi J, Tomsic D	The timing of escape responses under natural conditions in the crab <i>Neohelice granulata</i>
PO-2016	Yoshida M, Ito Y, Omura H, Arikawa K, Kinoshita M	Innate color preference is affected by plant odor in Japanese yellow swallowtail butterfly, <i>Papilio xuthus</i>
PO-2017	Uchiyama H, Kinoshita M, Arikawa K	Sexual dimorphism and its function in the “rough” eye of the Northeast Asian Wood White, <i>Leptidea amurensis</i>
PO-2018	Daly I, How M, Cronin T, Marshall J, Partridge J, Roberts N	A twisted view of the world: why mantis shrimp rotate their eyes
PO-2019	Dolev Y, Nelson X	Innate pattern recognition and categorization in a jumping spider
PO-2020	Feller K, Jordan T, Roberts N, Cronin T	Photonic structures in the eyes of stomatopod larvae
PO-2021	Seki Y, Nakamura N, Yonekura T, Yamada R, Nitta H, Miyakawa H, Morimoto T	Electrophysiological and behavioral approaches to understanding color vision in <i>Drosophila melanogaster</i>
PO-2022	Awata H, Porter M, Bok M, Cronin T	Diversity and expression of opsin in mantis shrimp
PO-2023	McCulloch K, Briscoe A	Sexual dimorphism and species divergence following UV opsin duplication in <i>Heliconius</i> butterflies
PO-2024	Lessios N, Cohen J, Rutowski R	How do natural light environments maintain multiple-pigment visual systems? An answer from branchiopod crustacean vision and behavior in desert ephemeral pools
PO-2025	Nityananda V, Nicolas J, Read J	Investigating binocular stereopsis in mantises using virtual 3D stimuli
PO-2026	Uchida Y, Yamawaki Y	Role of a looming-sensitive neuron in decision making of whether to strike or to defend by the praying mantis
PO-2027	Jones L, Tarawneh G, Rind C, Rowe C, Read J	A comparison of human and praying mantis ( <i>Sphodromantis lineola</i> ) motion detection systems to moving complex scenes
<b>Audition II</b>		
PO-2028	Soula H, Elie J, Theunissen F	Auditory representations of vocal gestures in zebra finches
PO-2029	Warnecke M, Cechetto C, Xian W, Moss C	Vocal behavior of paired big brown bats in cluttered environments

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PO-2030	Simmons J	Causes of bandwidth-related decrease in echo delay acuity for echolocating big brown bats
PO-2031	Hoffmann S, Matthes M, Firzlaff U, Luksch H	Integration of biosonar and visual information in the superior colliculus of bats
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Oulton, R	PO-1053				PO-1020
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				Rodríguez, C	PO-1069
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Takahashi, D	PO-1137		PO-1018		PO-1107
Takahashi, E	PO-2128	Thompson, K	PO-1194	Urushihata, T	PO-2097
Takahashi, N	PO-2073	Thum, A	PO-2106	Uryu, O	PO-2119
Takahashi, T	PO-1138	Toda, K	PO-2153	Uyeda, S	PO-2112
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Takaki, K	PO-1082	Tomioka, K	PO-1057		
Takalo, J	PO-1008		PO-2119		
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Takanashi, T	PO-1059	Tomsic, D	PO-2015		
Takasu, E	PO-1080	Toomey, M	PO-2010		
Takeda, H	PO-1125	Toriyabe, H	PO-1123	Van Alphen, B	PO-2121
Takeda, Y	PO-1026	Torkkeli, P	PO-1064	Van der Linden, A	PO-1031
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Takeuchi, H	PO-1125	Toshima, N	PO-2044	Van Nest, B	PS3-4
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Takeuchi, Y	PO-2093	Tracey, W	PO-1063		PO-2121
Takigami, S	PO-1108	Trent, S	PO-1152		PS3-2
Takuwa, H	PO-2098	Tripathy, D	PO-2087	Varona, P	PO-2069
Tam, S	IS3-2	Triphan, T	PO-1069	Vecht, J	PO-1151
Tanaka, K	PO-1083	Trost, L	PO-2141	Vedenina, V	PO-1127
	PO-2077		PS3-1		PO-2037
Tanaka, N	PO-1096	Truman, J	PO-1071		PO-2150
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Tang, Q	PO-1049	Tsuboko, S	PO-1125	Vidal-Gadea, A	PO-1061
Tang, Y	PO-2039	Tsubouchi, A	PO-1056		PO-1149
Tanimoto, H	IS12-2		PO-1063	Vogt, K	IS12-2
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Tanimura, T	PO-2044	Tsugawa, W	PO-2166		PO-2057
Tarawneh, G	PO-2027	Tsuji, K	PO-2160	Von Reyn, C	PO-1072
Taylor, G	PO-1185	Tsukada, Y	PO-2137	Vorobyev, M	PO-1001
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Tedjakumala, S	PO-1107		PO-1109	Vosshall, L	PO-2185
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Terao, K	PO-1097		PO-1151		SS-1
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Theis, K	PO-1147		PS3-6	Wallis, G	PO-1021
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Wiederman, S	PO-1025		PO-1196	Zhemchuzhnikov, M	PO-1042
Wiegrebe, L	PO-1027		PO-2184	Zheng, N	PO-2113
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