

POSTER SESSION I

INTERNATIONAL CONGRESS OF NEUROETHOLOGY 2016

| AUTHORS | ABSTRACT TITLE | POSTER |
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| ANATOMY & NEUROANATOMY | | |
| Wulfila Gronenberg | Chemosensory pathways in spiders and their kin. | PI-01 |
| Byron Van Nest | Synaptic organization in the honey bee mushroom body calyces does not predict performance on a challenging, ecologically relevant, visual learning task. | PI-02 |
| Jitte Groothuis | Miniature Masterminds – Novel insights on Haller's rule and effects of extreme brain scaling on neural architecture in <i>Nasonia</i> wasps. | PI-03 |
| Kaveri Rajaraman | Matched acoustic reception systems to unusually low frequency calls produced by a paleotropical bushcricket. | PI-04 |
| Daphne Soares | Differences in head morphology of a cavefish and its surface ancestor as explored by microCT and microMRI. | PI-05 |
| BEHAVIORAL PLASTICITY | | |
| Marta Moita | Freezing in response to inescapable looming stimuli is sexually dimorphic. | PI-06 |
| Elodie Urlacher | Honey bees show responses to alarm pheromone that are flexible yet consistent, and can be mimicked by treating bees with allatostatins. | PI-07 |
| Natalia Uriarte | Role of reproductive context and pup development on the behavioral flexibility of mother rats. | PI-08 |
| Yaara Saad | You are what you eat: Cannibalism-mediated neuromodulation of behavioral phase traits in the desert locust. | PI-09 |
| Agustina Cano | Spatial learning in kissing bugs: appetitive and aversive conditioning. | PI-10 |
| Arseny Finkelstein | Honey bee punishment and reward pathways: prior experience alters biogenic amine levels and modulates sucrose responsiveness. | PI-11 |
| Corie Charpentier | The role of pH and GABAergic signaling in detection of predator chemical cues in a larval crab. | PI-12 |

| AUTHORS | ABSTRACT TITLE | POSTER |
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| Chris Korey | Plasticity of external setae during claw transformation in the snapping shrimp, <i>Alpheus angulosus</i> . | PI-13 |
| CIRCADIAN RHYTHMS | | |
| Evelyn Rieber | Behavioral and anatomical studies of daily rhythms in solitary and gregarious desert locusts. | PI-14 |
| Iván Beltrán Arévalo | Aggressive behaviour and circadian rhythms: Behavioural analysis in the lizard <i>Gonatodes albogularis</i> . | PI-15 |
| Diana Franco | Central vs. peripheral circadian control of oviposition in <i>Drosophila melanogaster</i> . | PI-16 |
| Adriana Migliaro | Free running in the wild: circadian rhythmicity in electric behavior in two species of South American weakly electric fish. | PI-17 |
| Sofia Polcowñuk | Contribution of the BMP pathway to the operation of the circadian network in adult <i>Drosophila</i> . | PI-18 |
| María Moreno | Non-locomotion dependent nocturnal increase in the electric behavior of the weakly electric fish, <i>Gymnotus omarorum</i> . | PI-19 |
| COMMUNICATION | | |
| Guillermo Rehermann | Pheromone autodetection in a noctuid moth: GC-EAD response of female <i>Pseudaletia adultera</i> to its own sex pheromone components. | PI-20 |
| Chanchal Yadav | Invitation by vibration: Social caterpillars use vibroacoustic signals to advertise 'accommodations' to potential shelter mates. | PI-21 |
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| Sharad Shanbhag | Neural Mechanisms in Acoustic Communication and Emotion: The Basolateral Amygdala of Bats and Mice. | PI-25 |
| Joerg Henninger | Court and spark in the wild: communication at the limits of sensation. | PI-26 |
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| Mauro Ramirez | Novelty-induced hypofagia in pigeons (<i>Columba livia</i>): description of behavioral responses, the effects of re-exposure and sex differences. | PI-28 |
| Nouvian Morgane | Appetitive floral odours prevent aggression in honeybees. | PI-29 |
| Federico Pedraja | Object detection in electrosensory learning: the action-perception loop in <i>Gnathonemus petersii</i> . | PI-30 |
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| Kent Dunlap | Predators inhibit brain cell proliferation in natural populations of electric fish, <i>Brachyhyopomus occidentalis</i> . | PI-31 |
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| William Pitchers | The Genomic Basis of Signal Complexity in <i>Paramormyrops</i> electric fish. | PI-33 |
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| Rüdiger Krahe | Genetic drift and natural selection as driving forces in the evolution of electric signals in weakly electric fish. | PI-35 |

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| Hans Smid | The role of dopamine and octopamine in associative learning of the parasitic wasp <i>Nasonia vitripennis</i> : effects of antagonists. | PI-38 |
| Martín Klappenbach | Aversive and appetitive memories compete during retrieval in the crab <i>Neohelice</i> . | PI-39 |
| Amélie Cabirol | Experience during adult brain maturation is required for the development of complex cognitive capacities in honey bees. | PI-40 |
| María Sotelo | Spatial navigation in amphibians: Importance of the medial pallium. | PI-41 |
| Jean-Marc Devaud | Brain plasticity and complex learning tasks in the honey bee: recruitment of specific neural circuits allows ambiguity resolution. | PI-42 |
| Theo Mota | Octopamine and dopamine modulate appetitive visual learning in Africanized honeybees. | PI-43 |
| Candela Medina | Study of ADF/cofilin as a regulator of actin cytoskeleton dynamics in fear memory labilization and reconsolidation. | PI-44 |
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| Jean-Nicolas Audet | Differentially expressed glutamate and dopamine receptors in two sister species of wild birds with widely divergent cognitive abilities. | PI-49 |
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| Sarah Schumacher | Multisensing and Cross-modal object recognition in a fish. | PI-51 |
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| Kosuke Hamaguchi | Distributed encoding of vocal timing revealed by brain cooling and intracellular recordings in singing birds. | PI-53 |
| Frederic Libersat | Modulation of cockroach's postural motor activity during quiescent and venom-induced lethargic states. | PI-55 |
| Guy Levy | Octopus arms keep the octopus head horizontal to simplify control of the flexible arms during locomotion. | PI-56 |
| Ritwika Mukherjee | Adaptive Control of Caterpillar Proleg Grip-Release. | PI-57 |
| Joshua Puhl | Locomotion and Coordination: Mechanisms Underlying Homeostatic Plasticity Following Injury to the CNS. | PI-58 |
| Barry Trimmer | Climbing in complex environments: gait adaptation by a soft-bodied invertebrate. | PI-59 |

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| Matías Pandolfi | From the mouth to the brain and beyond: an L-tryptophan-enriched diet modulates agonistic behavior and neuroendocrine activity in a South American cichlid fish. | PI-61 |
| Matías Muñoz | Vasotocin expression in the preoptic area of frogs <i>Batrachyla</i> under noise exposure. | PI-62 |
| Alejandro Delorenzi | Expression: one of the possible fates of reactivated long-term memories. | PI-63 |
| Rossana Perrone | Social effects of vasotocin on the agonistic electric displays of two species of weakly electric fish. | PI-64 |
| Bettina Tassino | Stress and reproduction in ephemeral environments: tolerance or positive regulation? | PI-65 |
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| Diego Vázquez | In vitro bioassay of locomotor activity with sub-lethal doses of glyphosate on honeybee larvae. | PI-68 |
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| Theo Robert | Male bumblebees learn where to drink but not how to get back home. | PI-73 |
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| Charlotte Doussot | Active vision strategies of bumblebees during learning flights. | PI-75 |
| Cornelia Buehlmann | Multi-modal navigation in ants: What sensori-motor behaviours facilitate cue integration? | PI-77 |
| Pauline Fleischmann | Experience-dependent landmark learning in desert ants (<i>Cataglyphis fortis</i>). | PI-78 |
| Sarah Pfeffer | How to find home backwards? Stepping coordination and navigation during rearward homing in desert ant <i>Cataglyphis fortis</i> . | PI-79 |
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| Andrea Adden | Integration of optic flow and compass cues in the Bogong moth lateral accessory lobes. | PI-81 |
| SENSORIMOTOR INTEGRATION | | |
| Cody Manchester | Responses of locust motion-sensitive neurons during flight steering. | PI-82 |
| Monique Amey-Özel | Sensory-motor integration in the Elephant nose fish – central anatomy and second order pathways of the trigeminal system. | PI-83 |
| Pedro Aguilera | Dynamics of the electro-motor-sensory loop in pulse Gymnotiformes. | PI-84 |

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| Manuela Nowotny | Differential auditory adaptation in katydids (bushcrickets) ears: low-frequency resonance vs. acoustic fovea. | PI-88 |
| Michael Osmanski | Probing the Behavioral and Physiological Mechanisms Underlying Vocalization Discrimination in the Common Marmoset (<i>Callithrix jacchus</i>). | PI-89 |
| Daniel Eberl | Genetic analysis of ion pumps in the generation of mechanoreceptor lymph. | PI-90 |
| Michael Beckert | Representation of auditory space in the owl's forebrain. | PI-91 |
| Ole Larsen | The cormorant ear – an adaptation to underwater hearing? | PI-92 |
| Dmitry Vorontsov | Properties of primary auditory cells in male mosquitoes measured using positive feedback stimulation. | PI-93 |
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| Orit Dashevsky | Echolocation abilities of rats. | PI-95 |
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| Sarah Jung | Weak signal amplification and detection by higher-order sensory neurons. | PI-99 |
| Avner Wallach | Representation of electrolocation related stimuli in the thalamus analog of weakly electric fish. | PI-100 |
| Jan Benda | Synchronous spikes are necessary but not sufficient for a synchrony code. | PI-101 |
| Christopher Braun | Androgenic modulation of Chirp-like signals in the pulse-type Gymnotiform: <i>Steatogenys elegans</i> . | PI-102 |
| Kathryne Allen | Neural coding strategies and behavioral performance in electrocommunication. | PI-103 |
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| Gabriela De Brito | Absence of food alternatives promotes risk-prone feeding of unpalatable substances in honey bees. | PI-105 |
| Pedro Fernández | Ontogenic development of morphometric heterogeneities at the vomeronasal pathways: The social rodent <i>Octodon degus</i> as a case in point. | PI-106 |
| Meg Younger | Processing Human Cues in the Mosquito Brain. | PI-107 |
| Marco Paoli | Stimulus-induced frequency modulation in the honeybee antennal lobe. | PI-108 |
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| Bart Geurten | Gain modulation in the motion vision pathway. | PI-109 |
| Sergei Kondrashev | Trichromatic colour vision is involved in visually-guided mating behaviour of toads. | PI-110 |
| Kit Longden | The role of color vision in flight orientation in <i>Drosophila melanogaster</i> . | PI-111 |

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| Jamie Theobald | How does larval growth affect fruit fly vision and flight behavior? | PI-112 |
| Anna Stöckl | Neural summation in the hawkmoth visual system boosts contrast sensitivity and information rate in dim light. | PI-113 |
| Susanne Hoffmann | The neural basis of dim-light vision in echolocating bats. | PI-114 |
| Rachel Parkinson | The effects of a neonicotinoid pesticide on the looming response of a motion detection pathway in <i>Locusta migratoria</i> . | PI-115 |
| Estela Lanza | Prey and predator sensitive neurons in crabs. | PI-116 |
| Cynthia Tedore | Visualizing the forest canopy through bird eyes. | PI-117 |
| Mercedes Benchochea | Characterization of the activity of lobula columnar elements evoked by different parameters of visual stimulation that influence evasive behaviour in crabs. | PI-118 |
| James Foster | Stellar Orientation with a Small Mind-How a Beetle Sees the Milky Way. | PI-119 |
| Jay Stafstrom | Trade-offs drive dynamic investment in net-casting spider neuroanatomy. | PI-120 |
| Mindaugas Mitkus | Raptor central fovea lacks rods and double cones. | PI-121 |
| Juan Eesteban Salazar | Visual anatomy of the Band-winged Nightjar (<i>Systellura longirostris</i>): Binocular specializations, deep retinotectal projections and evidence for anatomical convergence among nocturnal insectivores. | PI-122 |
| Gregor Belusic | Tetrachromatic retina and extraordinary polarization sensitivity in the european corn borer <i>Ostrinia nubilalis</i> Hübner. | PI-123 |
| Zuzana Musilova | Color vision re-evolution in the deep sea? Story of 100 teleost fish genomes. | PI-124 |

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| Martin Luehrmann | Visual system diversity among closely related coral reef cardinalfishes. | PI-126 |
| Jinglin Li | Functional significance of adaptation in optic flow-based spatial vision of aerial insects - a modeling study. | PI-127 |
| Masayuki Yoshida | Comparison of the visual capabilities of an amphibious and an aquatic goby inhabiting tidal mudflats. | PI-128 |
| Inés Berrostequieta | Effects of light variations in cell proliferation in the retina of fish <i>Austrolebias charrua</i> . | PI-129 |
| Elke Buschbeck | Rapid, coordinated eye growth in diving beetle larval eyes. | PI-130 |
| Carola Yovanovich | Now you see it, now you don't: How much darkness does it take to disrupt behavioural colour discrimination in anuran amphibians? | PI-131 |
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| Daniella Agrati | Adult female rats are more sensitive than juveniles to cocaine's effects on sexual behavior. | PI-134 |
| Linda Hernandez Duran | Sexual behavior and mating plugs in the Colombian orb-web spider <i>Leucauge acuminata</i> (Araneae, Tetragnathidae). | PI-135 |
| Susie Hewlett | Characterisation of nestmate recognition cue learning in <i>Apis mellifera</i> and <i>Camponotus consobrinus</i> . | PI-136 |

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| Agustina Falibene | Daily thermal fluctuations during pupal development affect the mushroom body synaptic connections in the adult ant brain. | PI-138 |
| Annekathrin Lindenberg | Experience-independent and -dependent plasticity in opsin gene expression and in primary and secondary visual centers of the ant <i>Camponotus rufipes</i> . | PI-139 |
| Mariana Rocha | Searching for muscle memory of vocal motor skills in the brain of female canaries. | PI-140 |

POSTER SESSION II

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| Emma Van Der Woude | Breaking Haller's rule: consequences of brain isometry in minute parasitic wasps. | PII-02 |
| Elena Lorenzi | Higher activity in the right septum of chick (<i>Gallus gallus</i>) exposed to elementary motion cues related to animacy perception. | PII-03 |
| Thomas Cronin | Developing a stomatopod optic lobe: neural organization beneath the double-retina eye of larvae of <i>Alima pacifica</i> . | PII-04 |
| Hanne Thoen | Exploration of the neural architecture serving the elaborate visual system of stomatopods (mantis shrimps). | PII-05 |
| BEHAVIORAL PLASTICITY | | |
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| Lionel Igaz | Evaluation of cognitive, motor and social phenotypes in two rodent models of neurodegenerative disease. | PII-07 |
| Joshua Lillvis | Neural mechanisms of courtship commitment in <i>Drosophila melanogaster</i> . | PII-08 |
| Melissa Pavez Fox | Early handling promotes resilience to prenatal stress-induced deficits in juvenile rats. | PII-09 |
| Susana Delgado-Ocaña | Erythropoietin promotes neural plasticity and spatial memory recovery in fimbria-fornix-lesioned rats. | PII-10 |
| Eran Aamichai | Think before you leap: sensorimotor planning prior to takeoff enables accurate landing in an echolocating bat. | PII-11 |

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| COMMUNICATION | | |
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| Michael Smith | What's all the buzz about? - A novel form of seismic communication in chameleons. | PII-13 |
| Jeppe Rasmussen | Syringeal kinematics and sound excitation in the avian vocal organ. | PII-15 |
| Patricia Black Decima | Acoustic characteristics of courtship vocalizations in male Neotropical deer. | PII-16 |
| Till Raab | Microhabitat distribution of weakly electric fish populations in Neotropical habitats. | PII-17 |
| Frederic Theunissen | Voice discrimination in zebra finches. | PII-18 |
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| Julie Elie | Encoding models reveal how and when the meaning of communication calls is extracted by the avian auditory cortex. | PII-21 |
| Richard Dewell | From dendritic channels to escape behavior: A computational and neuroethological approach to locusts' predator detection. | PII-22 |
| Leonel Gómez-Sena | Modeling latency code processing in the electric sense. | PII-23 |
| Olivier Bertrand | Choosing the type of route to learn and follow in cluttered environments: A model analysis. | PII-24 |

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| Paul Katz | Species-differences in serotonin receptor expression in homologous identified neurons correlate with differences in neuromodulation and behavior. | PII-28 |
| Kristina Noreikiene | Quantitative genetic analysis of brain size variation supports the mosaic model of brain evolution in sticklebacks. | PII-29 |
| Fabio Cortesi | Vision from water to air - molecular comparison across three independent transitions in fishes. | PII-30 |
| Patric Vaelli | Origins of tetrodotoxin and molecular evolution in the voltage-gated sodium channels of poisonous newts (<i>Taricha granulosa</i>). | PII-31 |
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| Wyatt Korff | Functional dissection and organization of descending interneurons during flight control in <i>Drosophila</i> . | PII-33 |
| Alice Robie | Creation of brain-wide functional maps in <i>Drosophila melanogaster</i> . | PII-34 |
| Jason Gallant | The mormyrid genome: projects, prospects and new tools for neuroethology. | PII-35 |
| Mathias Wernet | Cellular contributions to polarization vision in <i>Drosophila</i> . | PII-36 |

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| Savvas Constantinou | Gene Knockdown in a Mormyrid Electric Fish Using Splice-Blocking Morpholino. | PII-37 |
| Nils Becker | Light-inducible transcriptomic and epigenomic changes underlying brain plasticity in honeybees. | PII-38 |
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| Rafi Kliger | Involvement of frontal cortex in successive negative contrast. | PII-42 |
| Rebekah Keating Godfrey | Linking variation in learning ability with regional brain metabolism in foragers of the ant <i>Novomessor cockerelli</i> . | PII-43 |
| Hanna Chole | Effect of olfactory conditioning with different outcomes on antennal movements in honey bees. | PII-44 |
| María Villar | Same context, different objects, long-term memory failure in object recognition. | PII-45 |
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| Pamela Lopes Da Cunha | The emotional tagging: stress and the promotion of durable memories. | PII-47 |
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| Sandor Lovas | Changes of electrical characteristics induced by priority pollutant hormones in <i>Lymnaea</i> identified neurons. | PII-50 |
| Eliane Gonçalves De Freitas | Cognitive bias in cichlid fish: Pessimistic fish show increased cortisol levels. | PII-51 |
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| Julius Orłowski | Visual pop-out in barn owls: From behavior to neural correlate? | PII-53 |
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| Adriane Otopalik | Electrotonically compact neurons with complex and variable morphologies produce robust, stereotyped physiology. | PII-56 |
| Pedro Jacob | Timer modules for pulse period and chirp duration are distributed along the cricket abdominal ganglia. | PII-57 |
| Daniel Knebel | Central-pattern-generators and higher-motor-center interplay in locust walking. | PII-58 |
| Rodrigo Alonso | A model for the song system in <i>Serinus Canaria</i> . | PII-59 |
| Ari Berkowitz | Flexion reflex can interrupt and reset the swimming rhythm. | PII-60 |
| Santiago Boari | Neural coding of timbre in birdsong. | PII-61 |
| Izaak Neveln | Using information theory to determine the centralization of control for locomotion in cockroaches. | PII-62 |

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| Cecilia Jalabert | The male intrasexual aggression of the weakly electric fish, <i>Gymnotus omarorum</i> , as model system for the study of non-breeding territorial aggression. | PII-64 |
| Aliana Giacometti | Effect of ketanserin in the regulation of satiety and the feeding behavior of carpenter ants. | PII-65 |
| Stefan Schoeneich | Differential aminergic modulation of descending brain neurons-a potential mechanism for decision making in cricket social behavior. | PII-66 |
| Giovanna Ponte | Octopamine in the octopus brain: mapping a "Neglected" Neuromodulator. | PII-67 |
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