

78th Congress of the
Unione Zoologica
Italiana

118th Congress of the
Société Zoologique de
France

Program

Second Joint Meeting of Société Zoologique de France
and Unione Zoologica Italiana
Torino, 18-23 September 2017

The evolution of animal diversity: a comparative approach



Department of Life Sciences and Systems Biology - University of Torino



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Monday - 18 September 2017

PRE-CONGRESS WORKSHOP

BEHAVIORAL ANALYSIS WITH BORIS Chairs: O. Friard, M. Gamba

- 14.00** Workshop
17.00 – 18.30 Registration Congress - Welcome to Participants

Tuesday - 19 September 2017

09.00 Opening ceremony

P. Passerin D'Entreves, C. Palestini – I legami storico-scientifici tra zoologi francesi e piemontesi

J.L d'Hondt - La Société zoologique de France et la Zoologie italienne

10.45 Opening Lecture:

T. Pievani – Plasticity and exaptation: the evolutionary role of functional shifts

11.30 Coffee -break

SYMPOSIUM 1

NEURAL PLASTICITY, COMPARATIVE DATA AND BEHAVIORAL OUTPUTS

Chairs: F. Levy, P. Peretto, M. Pestarino

Communications

12.00 P. M. Narins (invited speaker)

Adventures of an expeditionary biologist: neuroethology of ultrasonic communication in amphibians

12.30 M. Brus, R. Corona, M. Meurisse, M. Keller, F. Levy (invited speaker)

Neurogenesis in adult sheep: characterization and contribution to behavior

13.00 Lunch

14.00 – 15.30 Round Table: C. Giacoma

International tools and networks for supporting the sustainable development of academic teaching and research

14.00 – 15.30 Poster Exhibition

15.30 Coffee -break

16.00 N. Mandairon, N. Kuczewski, F. Kermen, J. Forest, M. Midroit, M. Richard, J. Sacquet, C. Linster, A. Didier
Opposite regulation of inhibition by adult-born granule cells in response to implicit *versus* explicit olfactory learning

16.15 C. La Rosa, A. Pecora, I. Amrein, F. Levy, L. Bonfanti

Neurogenic versus non-neurogenic plasticity in mammals

- 16.30** G. Polese, V. Maselli, L.L. Moroz, A. Di Cosmo
How problem solving changes affect adult neurogenesis in *Octopus vulgaris*
- 16.45** S. Ferrando, L Gallus, A. Amaroli, M. Rottigni, D. Di Blasi, M. Vacchi
The olfactory system of chondrichthyes: may anatomy predict function?
- 17.00** S. Candiani, E. Zieger, M. Schubert, M. Pestarino
The retinoic acid signaling regulates neurotransmitter identity in the amphioxus *Branchiostoma lanceolatum*
- 17.15** A.M. Tata
Acetylcholine in nervous system development: new roles for an ancient neurotransmitter
- 17.30** A. Messina, M.E. Castellini, A. Speccher, X. Zhang, S. Casarosa
Role of extracellular matrix proteins in retinal degenerations
- 17.45** E. Cottone, I. D'Atri, G. Zuccarini, V. Pomatto, Y. Gothilf, G. Merlo, P. Bovolin
Interference with the cannabinoid receptor CB1 induces miswiring of GNRH axons in zebrafish (*Danio rerio*) embryos
- 18.00** G. Grignaschi
Research4life, la prima esperienza italiana di science advocacy

Wednesday - 20 September 2017

SYMPOSIUM 2

BIODIVERSITY CONSERVATION, EXTINCTION AND SUSTAINABLE DEVELOPMENT

Chairs: **R. Ben Ahmed, S. Tripepi, M. Zapparoli**

Communications

- 09.00** F. Santini (invited speaker)
The macroevolution of biodiversity dynamics: what deep-time and phylogenetic comparative approaches have thought us about the generation and extinction of biological diversity
- 09.30** H. Bouaziz-Yahiatene, F. Medjdoub-Bensaad
Diversité des helicidae dans la région du Djurdjura (Tizi-Ouzou, Algérie)
- 09.45** R. Voda, L. Dapporto, A. Cini, M. Menchetti, S. Bonelli, L.P. Casacci, V. Dinca, S. Scalercio, J.C. Hinojosa, H. Biermann, L. Forbicioni, U. Mazzantini, L. Venturi, F. Zanichelli, E. Balletto, T. Shreeve, R.L.H. Dennis, R. Vila
Evolution and extinction patterns of the tuscan archipelago butterflies
- 10.00** F. Andreone, R. Pala, G. Tessa, S. Valenti, P. Nicolosi
Les amphibiens et les reptiles éteints et en vue d'extinction dans les musées italiens d'histoire naturelle
- 10.15** D. Biancolini, T. Blackburn, P. Visconti, C. Bellard, C. Rondinini
Introduced mammals of the world: predicting their distribution under global change
- 10.30** C.L. Tan, R.M. Randrianarison, V. Torti, F. Rolle, C. Giacoma, M. Gamba, J. A. Phillips
Stranger danger! Understanding fossa-lemur interactions
- 10.45** G. Forcina, D. Vallet D., P. Le Gouar, E. Revilla, R. Bernardo-Madrid, J.D. Rodríguez-Torijeiro, G. Molina-Vacas, G. Illera, N. Ménard, C. Vilà, M. Bermejo
Mobility patterns and social structure unveiled by non-invasive genotyping in the western lowland gorilla (*Gorilla gorilla gorilla*)

11.00 Coffee -break

- 11.30** I. Norscia, E. Palagi
Italian zoo-parks and primate conservation: the case of Lemur *Propithecus verreauxi* from the berenty forest (South Madagascar)
- 11.45** C. Avesani Zaborra
Il ruolo di un moderno giardino zoologico nella conservazione della biodiversità
- 12.00** O. Lisi
La rivoluzione tassonomica dei tardigradi limno-terrestri: ricadute su biogeografia, biodiversità e conservazione
- 12.15** E. Brunelli, I. Bernabo', S. Tripepi
La contaminazione degli ambienti acquatici: biomarcatori di tossicità e loro ruolo predittivo negli anfibi
- 12.30** G.F. Ficetola, A. Melotto, M.E. Siesa, M. Muraro, F. Belluardo, F. Faraci, E. Lo Parrino, S. Pitton, R. Manenti
Multifaceted impacts of the invasive crayfish, *Procambarus clarkii*, on freshwater communities: from fitness decline to population extinctions
- 12.45** L. Vecchioni, A. Deidun, J. Sciberras, A. Sciberras, F. Marrone, M. Arculeo
mtDNA sequences reveals an overlooked diversity hotspot for the freshwater crab genus *Potamon* in North Africa (Decapoda, Brachyura, Potamidae)

13.00 Lunch

- 14.00 – 15.30** Round Table: B.M. Lombardo, I. Perroteau.
Didactic innovation in animal biology

- 14.00 – 15.30** Poster Exhibition

15.30 Coffee -break

- 16.00** F. Boero (invited speaker)
Marine extinctions
- 16.30** M. Bo, M. Coppari, S. Bava, S. Canese, R. Cattaneo-Vietti, G. Bavestrello
Ligurian seamounts: known vulnerability of unknown ecosystems
- 16.45** M. Coppari, G. Bavestrello, P. Carpentieri, F. Enrichetti, C. Mancusi, F. Serena, M. Bo
Trawling impact in the italian seas: biodiversity, trends and conservation of megabenthic communities
- 17.00** F. Tiralongo, G. Messina, B.M. Lombardo
The spread of *Ocypode cursor* (Linnaeus, 1758), (Decapoda Ocypodidae), in the central mediterranean sea
- 17.15** A. Bastari, D. Pica, J. Beccacece, V. Gnetti, F. Ferretti, F. Micheli, D. Senni, C. Cerrano
Habitat suitability models and fishers perception as tools for supporting the conservation of vulnerable marine ecosystems (VMEs) in the central adriatic sea
- 17.30** B. Cozzi, C. Centelleghhe, C. Casalone, S. Mazzariol, M. Podesta'
La rete nazionale spiaggiamenti cetacei. Attuali iniziative e quadro legislativo attualmente allo studio
- 17.45** V. Isaja
Il nuovo concetto di immersività esperienziale ed educazionale come potente strumento di sensibilizzazione alla biodiversità e alla conservazione nella società moderna: il caso Zoom Torino

Thursday - 21 September 2017

SYMPOSIUM 3

PEST, INVASIVE SPECIES AND DISEASE VECTORS

Chair: S. Bertolino, M. Gammoudi

Communications

08.30 P. Genovesi (Invited speaker)

Global patterns of biological invasions and progresses in the efforts to prevent and mitigate the related impacts

09.00 L. Scillitani, L. Volery, D. Jatavallabhula, S. Bacher, S. Bertolino

A global assessment of the environmental impact of alien ungulates using the environmental impact classification for alien taxa (EICAT)

09.15 E. Tricarico, C. Souty-Grosset, P. Anastacio, J. Reynolds

Invasive freshwater invertebrates and fishes: impacts on human health

09.30 A. Manino, S. Bertolino, L. Carisio, D. Laurino, S. Lioy, A. Romano, M. Porporato

Vespa velutina (Hymenoptera Vespidae): a global threat to biodiversity and food security

09.45 L. Iaiza, S. Filacorda

Human dimensions of an invasion: attitudes toward *Myocastor coypus* in Italy

10.00 P.G. Julianini, L. Zampa, L. Pallavicini, C. Manfrin, A. Caputi, A. Beorchia, R. Vidimari, C. Chiandetti

Managing of *Procambarus clarkii* by x-ray sterilisation of males: survival, immunological competence and behavior

10.15 L. Piemontese, M. Cesari, L. Maistrello, R. Bonini, P. Dioli, M. Dutto, S. Volani, S. Pasquali, G. Gilioli, L. Rebecchi, R. Guidetti

The invasion history of the brown marmorated stinkbug *Halyomorpha halys* (Heteroptera, Pentatomidae) in the invaded territories of Italy

10.30 L. Maistrello, E. Costi, G. Vaccari, C. Castracani, D. Grasso, J. Polajnar, V. Mazzoni

«Diabolic» field invasions: biology, monitoring, biocontrol and innovative management approaches of *Halyomorpha halys*

10.45 F. Medjdoub-Bensaad, M. A. Khelil, J. Huignard

Brucus rufimanus un ravageur potentiel de la fève *Vicia faba* dans la région de Kabylie (Algérie).

11.00 Coffee –break

11.30 M. Ballardini, A. Pautasso, S. Ferretti, G. Chiaranz, M.V. Riina, G. Triglia, F. Verna, V. Bellavia, M.C. Radaelli, G.

Porcheddu, A. Accorsi, U. Cardellino, I. Cremonesi, M. Serra, M. De Camilli, M. Merello, A. Ferrari, P.L. Acutis, C. Casalone, W. Mignone

Invasive mosquito species and risks for human health: *Aedes albopictus* and *Aedes koreicus* (Diptera: Culicidae) in north-western Italy

11.45 U. Palatini, E. Pischedda, M. Bonizzoni

Nonretroviral integrated RNA viruses in the genome of mosquito vectors: a new form of immunity

12.00 Presentazione poster Premi UZI "giovani ricercatori"

13.30 Lunch

14.30 – 16.00 Round Table: R. Boano, B. De Marchi

From scientific research to audience engagement: new perspectives for zoological samples in museums and university collections

14.30 – 16.00 Poster Exhibition

16.00 Coffee –break

16.30 UZI assembly

20.30 Social dinner

Friday - 22 September 2017

SYMPOSIUM 4

BIOLOGY OF REPRODUCTION AND REPRODUCTIVE STRATEGIES

Chairs: S. Hammouche - A. Pilastro – S. Piraino

Communications

09.00 G. Rosenthal (invited speaker)

Mate-choice mechanisms and the evolutionary process

09.30 X. Turon (invited speaker)

Re-examining what we think we know about reproductive stategies of benthic invertebrates: lessons learnt from genetics

10.00 M.A. Biscotti, A. Canapa, M. Barucca, A. Pallavicini, M. Gerdol, E. Olmo, M. Schartl

A comparative view on sexual development genes in lungfish and coelacanths

10.15 P. Bonivento, L. Tufano, M. Bellavista

Development of a lateral flow kit for early sex determination in *Testudo marginata*, Schöpff, 1792

10.30 R. Ben Ahmed, S. Tekaya

Ovary cord structure and oogenesis in the amphibian leech *Batracobdella algira* (Anellida, Clitellata, Hirudinea) from Tunisia

10.45 J.L. d'Hondt

Strategies de reproduction chez les bryozoaires: diversites morpho-anatomique et systematique, signification evolutive

11.00 Coffee -break

11.30 L. Favaro, M. Gamba, D. Pessani

Mating calls of banded penguins encode honest cues to the body size in the vocal parameters linked to anatomical constrains

11.45 T. Lucon-Xiccato, A. Bisazza, A. Pilastro

Individual differences in exploratory behaviour predict novel male preference in female guppies (*Poecilia reticulata*, Peters, 1859)

12.00 C. Morosinotto, R.L. Thomson, E. Korpimäki, R. Mateo, S. Ruuskanen

Maternal food supplementation and predation risk affect egg composition but not offspring condition in *Ficedula hypoleuca*

12.15 Congress closing

12.30 Lunch

Saturday - 23 September 2017

University of Gastronomic Sciences (UNISG) - Pollenzo

POST-CONGRESS WORKSHOP - SYMPOSIUM 5

ANIMALS AS SOURCE OF FOOD

Chairs: S. Bonelli, S. Greco, R. Valvassori

08.30 Departure – Bus from Piazza Carlo Emanuele II- Turin

10.00 – 10.30 Arrival in Pollenzo – On site registration and welcome coffee

10.30 Opening by the UNISG President Prof. P. Grimaldi

Il tartufo: una storia notturna

10.45 S. Greco

Il cibo improbabile che viene dal mare: nuove specie per nuovi paradigmi

11.15 A. Leone, S. Piraino, F. Boero

From problem to solution: european jellyfish on western menus?

11.35 G. Volpato

Edible insects, the hidden crop of african agroecological systems

11.55 F. Lotta

Insetti esibiti come nuovo alimento: scenari legislativi vecchi e nuovi

12.15 A. Mascaretti, R. Scramaglia

Gli insetti commestibili & gli italiani

12.35 S. Bertolino, A. Martinoli

Use as food of animals in the past has caused species extinctions: now gastronomy can be a biodiversity conservation tool?

12.55 S. Bonelli, R. Valvassori, S. Greco, F. Zanichelli

Concluding remarks

13.15 Lunch

14.00 – 14.30 Poster Exhibition

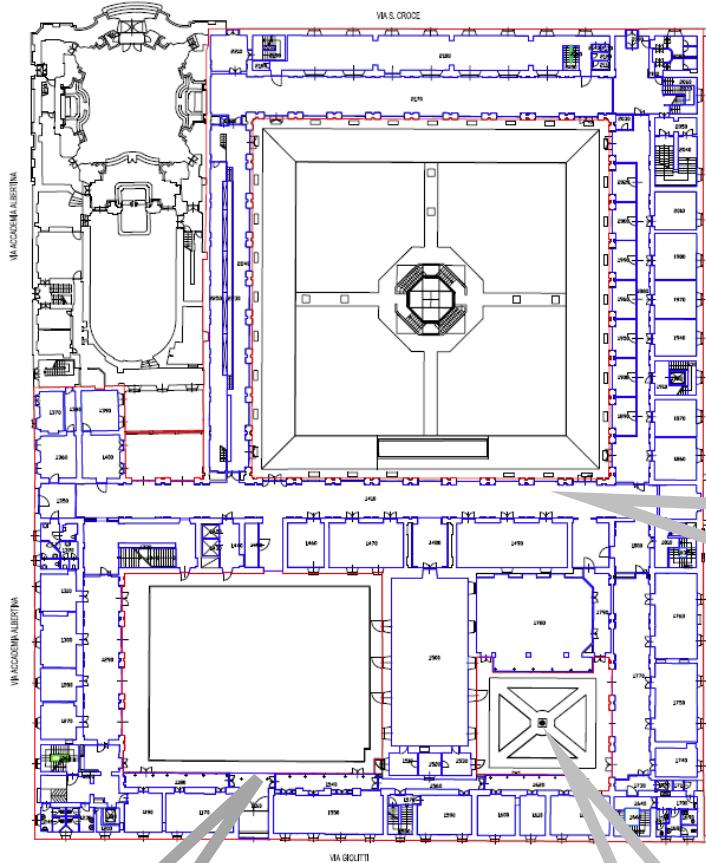
14.30 – 15.30 Visit to the Wine Bank in the complex of the Gothic Albertine center

16.00 Bus to Turin

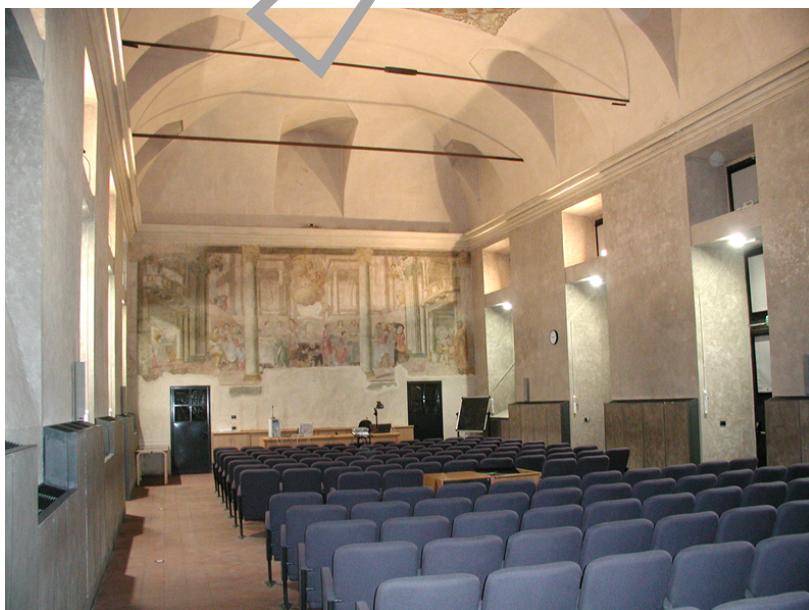
18.00 Arrival in Turin – Piazza Carlo Emanuele II

MEETING LOCATION

Department of Life Sciences and Systems Biology - University of Torino
Via Accademia Albertina 13 – 10123 Torino



Entrance



Hall 'Magna'



Hall 'De Filippi'

18-23 September 2017

DEPARTMENT OF LIFE SCIENCES AND SYSTEMS BIOLOGY - Via Accademia Albertina 13 - Torino

		UNIVERSITY OF GASTRONOMIC SCIENCES - Pollenzo (CN)					
		Monday 18th	Tuesday 19th Aula magna	Wednesday 20th Aula magna	Thursday 21st Aula magna	Friday 22nd Aula magna	Saturday 23th Aula magna
08.30-09.00							
9.00-10.00			Opening ceremony				
10.00-11.00			Opening lecture				
11.00-11.30			Coffee -break		Coffee -break		
11.30-12.00			Symposium Neural plasticity, comparative data and behavioural outputs		Symposium Biodiversity conservation , extinction and sustainable development		Symposium Pest, invasive species and disease vectors
12.00-13.00			Lunch		Lunch		
13.00-13.30							
13.30-14.00							
14.00-14.30							
14.30-15.00			Round table International tools and networks for supporting the sustainable development of academic teaching and research	Poster exhibition	Round table Didactic innovation in animal biology	Poster exhibition	Round table From scientific research to audience engagement: new perspectives for zoological samples in museums and university collections
15.00-15.30			Behavioural analysis with BORIS Aula 5 Palazzo Campana Via Carlo Alberto 10 Torino				Poster exhibition
15.30-16.00							
16.00-16.30							
16.30-17.00							
17.00-18.00		Registration Congress Via Accademia Albertina 13 Torino		Symposium Neural plasticity, comparative data and behavioural outputs		Symposium Biodiversity conservation , extinction and sustainable development	UZI assembly
18.00-19.00							
20.30-23.30							Social dinner presso Società Canottieri Armida Viale Virgilio 45 - Torino

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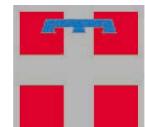
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