

CONFERENCE PROGRAM

TUESDAY 23rd JUNE

- 8:30 - 9:30 Registration & Poster Installation
- 9:30 - 10:00 Opening Ceremony
- 10:00 - 10:40 **Invited Speaker:** C. BOSCHETTI *et al.* – Horizontal gene transfer in desiccation-tolerant metazoans
- 10:40 - 11:15 Coffee break

Chairpersons: K.I. JÖNSSON & R.O. SCHILL

- 11:15 - 11:30 T. KUNIEDA *et al.* – Comparative Omic analysis between anhydrobiotic tardigrade and desiccation-sensitive tardigrade
- 11:30 - 11:45 T. BOOTHBY *et al.* – Identifying functional mediators of desiccation tolerance in tardigrades
- 11:45 - 12:00 K. ARAKAWA *et al.* – *De novo* genome sequencing of various tardigrades with ultra-low input
- 12:00 - 12:15 T. HYGUM *et al.* – Is the “tun” state necessary for cryptobiotic/anhydrobiotic survival? (*Young Scientist Award contestant*)
- 12:15 - 12:30 N.W.T. HEIDEMANN & D.K. SMITH *et al.* – Osmotic stress tolerance in the semi-terrestrial tardigrades, *Echiniscus testudo* and *Ramazzottius oberhaeuseri* (*Young Scientist Award contestants*)
- 12:30 - 14:15 Light Lunch at the Restaurant “La Secchia Rapita”

Chairpersons: N. MØBJERG & T. KUNIEDA

- 14:15 - 14:30 D.D. HORIKAWA *et al.* – Freezing survival of the tardigrade *Ramazzottius varieornatus*
- 14:30 - 14:45 L.K.B. CLAUSEN *et al.* – Osmotic stress response in the tidal heterotardigrade *Echiniscoides sigismundi* (*Young Scientist Award contestant*)
- 14:45 - 15:00 S. HABAZIN *et al.* – Water bears going nano: atomic force microscopy allows high resolution *in vivo* imaging of tardigrade cuticle (*Young Scientist Award contestant*)

- 15:00 - 15:15 I. GIOVANNINI *et al.* – Capability of the Antarctic tardigrade *Acutuncus antarcticus* to withstand environmental stresses
- 15:15 - 15:30 Symposium details and communications
- 15:30 - 16:00 Coffee break

Chairpersons: T. ALTIERO & H. GREVEN

- 16:00 - 16:15 S. CALHIM *et al.* – Sperm evolution in tardigrades
- 16:15 - 16:30 I. POPRAWA *et al.* – What is known about oogenesis in Eutardigrada?
- 16:30 - 16:45 M. HYRA *et al.* – Oogenesis in *Hypsibius dujardini* (Eutardigrada, Hypsibiidae) (*Young Scientist Award contestant*)
- 16:45 - 17:00 M. CZERNEKOVA *et al.* – Mitosis in storage cells of the eutardigrade *Richtersius coronifer* (*Young Scientist Award contestant*)
- 17:15 - 19:00 Guided Modena City tour

WEDNESDAY 24th JUNE

- 9:00 - 9:40 **Invited Speaker:** D. NELSON *et al.* – Ecology of tardigrades: past, present, and future

Chairpersons: K. HOHBERG & P. BARTELS

- 9:40 - 9:55 M. BRYNDOVÁ *et al.* – The changes in tardigrade assemblages during succession after deglaciation: a comparison of species and functional diversity approach (*Young Scientist Award contestant*)
- 9:55 - 10:10 K. ZAWIERUCHA *et al.* – Factors influencing tardigrade distribution in Svalbard (High Arctic) (*Young Scientist Award contestant*)
- 10:10 - 10:25 T. ALTIERO *et al.* – Reproductive mode and life history traits of the tardigrade *Acutuncus antarcticus*: strategies to colonize the Antarctic environment
- 10:25 - 10:40 M. TSUJIMOTO *et al.* – Effect of temperature on generation time and reproductive success in the Antarctic tardigrade, *Acutuncus antarcticus*
- 10:40 - 11:15 Coffee break

Chairpersons: N. GUIL & L. KACZMAREK

- 11:15 - 11:30 J.G. HANSEN *et al.* – Postembryonic development, heterochrony, secondary sexual dimorphism and population structure of a new *Florarctus* species (Tardigrada, Heterotardigrada)
- 11:30 - 11:45 M. RUBAL *et al.* – Biodiversity of marine tardigrades from North Portugal. A comparison among habitats
- 11:45 - 12:00 E. PERRY *et al.* – The Tardigrade Fauna of Allen Island, Maine, U.S.A.
- 12:00 - 12:30 Group photo
- 12:30 - 14:00 Light Lunch at the Restaurant “La Secchia Rapita”

Chairpersons: R. BERTOLANI & P. FONTOURA

- 14:00 - 14:15 Ç. TEKATLI *et al.* –Taxonomic studies on the species of Tardigrada in Soğuksu National Park Located in Kızılcahamam Ankara (Turkey) (*Young Scientist Award contestant*)
- 14:15 - 14:30 Ł. MICHALCZYK *et al.* – A new species or just a new phenotype? An experimental test of phenotypic plasticity in the taxonomic traits of tardigrades
- 14:30 - 14:45 D. STEC *et al.* – Genetic and environmental determinants of egg shell morphology in *Ramazzottius subanomalous* (Biserov, 1985) (Tardigrada: Eutardigrada: Ramazzottidae) (*Young Scientist Award contestant*)
- 14:45 - 15:00 N. MARLEY *et al.* – Preliminary results for a meiofauna survey of the South Shetland Islands, Antarctica

Chairperson: R. GUIDETTI

- 15:00 - 15:15 D. FONTANETO *et al.* – Towards a list of available names in zoology for Tardigrada
- 15:15 - 15:45 **Plenary discussion:** Possible application of the Article 79 of the International Code of Zoological Nomenclature to Tardigrada
- 15:45 - 16:15 Coffee break
- 16:15 - 18:00 POSTER & SLIDE SESSION 1

THURSDAY 25th JUNE

- 9:00 - 9:40 **Invited Speaker:** D. PISANI *et al.* – Can we consider the phylogenetic relationships of the tardigrades resolved?

Chairpersons: D. NELSON & M. CESARI

- 9:40 - 9:55 J. REICHEL *et al.* – Evolution of novel, lamin-derived cytoplasmic intermediate filaments in Tardigrada (*Young Scientist Award contestant*)
- 9:55 - 10:10 D.K. PERSSON – The tardigrade brain – segments or segment?
- 10:10 - 10:25 F. SMITH *et al.* – The walking heads: *Hox* gene expression in *Hypsibius dujardini* and the evolution of the tardigrade body plan
- 10:25 - 10:40 V. GROSS *et al.* – Neural development in *Hypsibius dujardini* supports the sister-group relationship of tardigrades and arthropods (*Young Scientist Award contestant*)
- 10:40 – 11:15 Coffee break

Chairpersons: S.J. MCINNES & J.G. HANSEN

- 11:15 - 11:30 S. FUJIMOTO *et al.* – Unravelling the higher phylogeny of Arthrotardigrada (Heterotardigrada) (*Young Scientist Award contestant*)
- 11:30 - 11:45 N. GUIL – Phylogenetic informativeness of genes and fragments within the Tardigrada tree
- 11:45 - 12:00 M. CESARI *et al.* – Is *Acutuncus antarcticus* (Eutardigrada, Hypsibiidae) truly a pan-Antarctic species? An insight on its genetic diversity and biogeography
- 12:00 - 12:15 M. VECCHI *et al.* – An integrative approach led to the description of a new tardigrade genus of Macrobiotidae
- 12:15 - 12:30 N. MØBJERG *et al.* – New taxa from Roscoff, France increase the phylogenetic and evolutionary understanding of Echiniscoididae
- 12:30 - 12:45 R. BERTOLANI *et al.* – Integrative taxonomy approach to the *Paramacrobotus richtersi* group (Eutardigrada, Macrobiotidae)
- 12:45 – 14:15 Light Lunch at the Restaurant “La Secchia Rapita”

Chairperson: R. GUIDETTI

- 14:15 - 15:00 **Plenary discussion:** Share ideas and develop projects and tools to enlarge the tardigrade community
- 15:00 - 15:30 POSTER & SLIDE SESSION 2
- 15:30 - 16:00 Coffee break
- 16:00 - 17:15 POSTER & SLIDE SESSION 2
- 18:15 Leaving to Spezzano

- 19:00 Guided visit to “Castle of Spezzano” & Acetaia
- 20:00 Social Dinner
The “Young Research Award” winners will be announced during the dinner
- 23:00 Return to Modena

FRIDAY 26th JUNE

- 8:15 Leaving to Verona

Chairpersons: L. LATELLA & Ł. MICHALCZYK

- 10:45 – 11:00 R.M. KRISTENSEN *et al* – the marine tardigrades at Al Zubarah, Qatar
- 11:00 - 11:15 P. BARTELS *et al.* – A global biodiversity estimate of limnoterrestrial and marine tardigrades
- 11:15 - 11:30 Ł. KACZMAREK *et al.* – Diversity of tardigrades of the Americas in relation to the hypothesis of the “Great American Biotic Interchange”
- 11:30 - 11:45 A. PALMER *et al.* – Characterization of a putative new species of the genus *Milnesium* Doyère, 1840 from the Colorado National Monument, USA
- 11:45 - 12:00 R. GUIDETTI *et al.* – Opening the Pandora’s box of *Richtersius* reveals its phylogenetic relatives
- 12:00 - 12:30 Closing ceremony
- 12:30 - 15:00 Lunch at the Museum (Room: Fossils of Bolca)
Museum Tour
SLIDE SESSION 3
- 15:00 - 17:00 Guided Verona City Tour
- 17:00 - 18:00 Free time
- 18:00 Leaving from Verona
- 20:30 Arrival to Modena