

PROGRAMME



CISA 2023

DAY 0: MONDAY 23RD OCTOBER

17:00-18:00

Collection tour: Museo Nacional de Ciencias Naturales

18:00-21:00

Badge pickup & Icebreaker: Museo Nacional de Ciencias Naturales

DAY 1: TUESDAY 24TH OCTOBER

08:15-9:00

Badge pickup

09:00-9:15

Welcome Speaker: Sergio Taboada

9:15-10:00

Plenary talk Rosa Fernández Science (fiction) stories of hopeful monsters and genomic dark matter

Taxonomy & Systematics: Session T1: Chairs Rosa Fernández y Rafael Zardoya

10:00-10:15

talk

Mario García-
París

Systematics of Iberian and northwestern African Akidini (Tenebrionidae: Coleoptera)

10:15-10:30

talk

Diego Vázquez-
Alcaide

Systematic revision of the problematic sea slug genus *Doto* (Heterobranchia: Nudibranchia) – from the Mediterranean to South America

10:30-11:00

Coffee break

Taxonomy & Systematics: Session T2: Chairs Juan Junoy y Sergio Taboada

11:00-11:15

talk

Irene del Olmo

Unveiling hidden diversity: integrative species delimitation in the *Syllis prolifera* populations from the Mediterranean

11:15-11:30

talk

Marina Monte

Phylogenetic revision of Heterobranchia molluscs with 240 complete mitochondrial genomes

11:30-11:45

talk

Paula Moreno-
Martín

Exploring syllid annelids from Bermuda: an integrative approach unraveling the genus *Megasyllis*

11:45-12:00

talk

Diego San
Mauro

From mitogenomic to multilocus, to transcriptomic, and to genomic: new resources that shed light on the phylogeny and evolution of caecilian amphibians

11:00-12:15

talk

Silvia Adrián-
Serrano

One genome to recover them all: The potential of low-coverage genome sequencing for phylogenetic inference and molecular evolution

12:15-12:20

speed talk

Lisa Pokorný

Disentangling recalcitrant phylogenetic relationships in Malpighiales with the Clusoid626 probe set

12:20-12:25

speed talk

Carla Canet-
Miralda

Not one but two invasions of the Atlantic Ocean from the Indo-Pacific: Genetic and morphologic study of the slug genus *Vayssiëra* Risbec, 1928 (Mollusca, Nudibranchia)

12:25-12:30	speed talk	Fernando García-Guerrero	<i>Alzoniella (Navarriella)</i> : A relict lineage of Hydrobiidae springsnails (Mollusca: Caenogastropoda) endemic to the Iberian Peninsula
12:30-12:35	speed talk	Víctor Cuesta-Porta	There and back again: A tale of the oak gall wasps' genus <i>Cynips</i> in the New World (Hymenoptera: Cynipidae: Cynipini)
12:35-12:40	speed talk	Alberto Sánchez-Vialas	An enigmatic new species of Amphisbaenidae (Sauropsida: Lacertoidea) from Africa unveils a remarkable biogeographic pattern
12:40-12:45	speed talk	Javier Lobón-Rovira	Systematic, biogeography and evolution of the <i>Lygodactylus gutturalis</i> (Bocage, 1873) complex
12:45-12:50	speed talk	María Capa	Mallorcan anchialine caves provide new discoveries of enigmatic annelids, as well as insights on coastal cave adaptations and connectivity
12:50-12:55	speed talk	María Capa	Hidden diversity in a common Mediterranean marine annelid
12:55-13:00	Questions for speed talk presenters		

13:00-14:30 Lunch

Taxonomy & Systematics: Session T3: Chairs Nuria Sánchez y Miquel Arnedo

14:30-14:45	talk	Irene Masa-Iranzo	A resolved backbone topology for genus <i>Hypericum</i> based on phylogenomic data
14:45-15:00	talk	Marc Domènech	Phylogenomics of chelicerate terrestrialization
15:00-15:05	speed talk	Jesús Lozano	Phylogenomic analyses identify Tardigrada as a member of Panarthropoda
15:05-15:10	speed talk	Jose Fernández-Simón	Shedding light on the heterobranch's hidden diversity through worldwide sampling campaigns (Mollusca: Heterobranchia)
15:10-15:15	speed talk	Silvia Perea	Taxonomic and systematic updating of Iberian freshwater fish endemic species
15:15-15:20	speed talk	Joaquín Hortal	Taxonomic change and its impact on plant macroecology
15:20-15:25	speed talk	Cristina Ronquillo	Accounting for the taxonomic uncertainty in species occurrence records from biodiversity databases
15:25-15:30	Questions for speed talk presenters		

15:30-16:00 Coffee break

Barcoding and Metabarcoding: Session B1: Chairs Carmelo Andújar y Paula Arribas

16:00-16:15	talk	Alejandro López-López	Worldwide diversity and geographic distribution patterns of water bears (Tardigrada) unveiled by high throughput sequencing
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16:15-16:30	talk	Xavier Turon	From metabarcoding to metaphylogeography: a protocol for the study of marine benthic communities
16:30-16:45	talk	Ana Ramón-Laca	Environmental DNA, metabarcoding & relatives
16:45-17:00	talk	Marta Turon	Contribution of vertical and horizontal transmission to microbiome composition through the ontogeny of the marine sponge <i>Crambe crambe</i>
17:00-17:15	talk	Mattia Menchetti	A DNA barcoding library for exploring the evolution and diversity of European ants
17:15-17:30	talk	Fernando Useros	Novel biodiversity and multiple colonizations of athalassohaline water bodies by freshwater lobose testate amoeba (Arcellinida, Amoebozoa)
17:30-17:35	speed talk	Enrique Arboleda	Identifying the need of having molecular data to better characterize the biodiversity of the Balearic Islands
17:35-17:40	speed talk	Irene Santos-Perdomo	Towards a Canary Islands barcode database for soil biodiversity: revealing cryptic and unrecorded mite diversity within insular soils
17:45-17:50	speed talk	Nura ElKhouri-Vidarte	Novel metabarcoding protocol for Saprolegniales
17:50-17:55	speed talk	Sara Fernández	Rivers' connectivity studied through eDNA haplotypes. An early approach to infer intraspecific variation
17:55-18:00	speed talk	Brent Emerson	A role for barcode sequences as fundamental arthropod biodiversity data – examples from the Canary Islands
18:00-18:05	Questions for speed talk presenters		

18:05-19:00

POSTER SESSION

DAY 2: WEDNESDAY 25TH OCTOBER

09:00-9:45	Plenary talk	Michelle Leger	The diversity, evolution and importance of protists
			Barcoding and Metabarcoding: Session B2: Chairs Michelle Leger e Irene de Sosa
9:45-10:00	talk	Manuel Marquerie-Córdoba	Speeding up integrative taxonomy in the time of the biodiversity crises: the case of the red devil spiders of the Caucasus
10:00-10:15	talk	Paula Aribas	Unravelling the hidden arthropod diversity in soils through wocDNA metabarcoding haplotype community data
10:15-10:30	talk	Carmelo Andújar	Metabarcoding, NUMTs, and taxonomic inflation: addressing a controllable challenge

10:30-11:00

Coffee break

11:00-11:15 talk Ramón Gallego Tales from the deep: using sponges to survey deep water ecosystems

Evolutionary Biology: Session E1: Chairs Aida Verdes y Borja Milá

11:15-11:30 talk Adrián Villastrigo Radiation across an extreme altitudinal gradient in a lineage of Austral Pacific arthropods

11:30-11:45 talk Jose Lorente-Sorolla Evolution of sexual reproduction in sponges: genotypic sex determination in eight species

11:45-12:00 talk Patricia Álvarez-Campos The story of annelid regeneration and stem cell research through single-cell transcriptomics

12:00-12:15 talk Ignacio Tenaguiño Consequences of asexuality on phylogenetic inference: ancient fissiparity causing topology shifts in planarians of genus *Dugesia*

12:15-12:20 speed talk Ana Herráez-Pérez Comparative genomics of cone snails is ready to go: the chromosome level genome of the Canary Island cone snail, *Kalloconus canariensis*

12:20-12:25 speed talk Irene de Sosa Molecular and evolutionary mechanisms related to parthenogenesis in oligochaetes

12:25-12:30 speed talk María Herranz Understanding mud dragon (Kinorhyncha) growth through an integrative developmental study

12:30-12:35 speed talk Daniel Cuadrado Posterior specification and cellular reprogramming of planarians: mechanisms of anteroposterior regeneration

12:35-12:40 speed talk Gabriel Mochales-Riaño A genomic approach to the venomous horned vipers of the genus *Cerastes*

12:40-12:45 speed talk Tamara Pazos Deterioro de líquenes epífitos y sus microalgas simbioses en la comunidad valenciana: técnicas de biomonitorización y genómica aplicadas a la conservación de la biodiversidad

12:45-13:00 Questions for speedtalk presenters

13:00-14:30

Lunch

Evolutionary Biology: Session E2: Chairs Pablo Vargas y Marta Barluenga

14:30-14:45 talk Gemma Martínez-Redondo The march to land: unearthing how gene repertoire evolution triggered animal terrestrialization

14:45-15:00 talk Lisandra Benítez-Álvarez Evolutionary insights into habitat transitions in free-living Platyhelminthes: from the sea to the land

15:00-15:05	speed talk	María Teresa Aguado	Unusual body pattern, reproduction and symbiotic way of life of branching worms
15:05-15:10	speed talk	Ainhoa Agorreta	Shedding light on the water-to-land transition of mudskippers
15:10-15:15	speed talk	Aida Verdes	Spatial Transcriptomics to investigate the origin of evolutionary novelties in marine invertebrates
15:15-15:20	speed talk	Paula Ortega López	Exploring the interactions between emerging fungal-like pathogens and Artrophoda
15:20-15:25	speed talk	Tommaso Cancellario	Ecological niche and spatial evolution of two Balearic endemic lizards under potential climate change scenarios
15:25-15:30	Questions for speedtalk presenters		

15:30-16:00 Coffee break

Evolutionary Biology: Session E3: Chairs Patricia Álvarez-Campos y Mario García Paris

16:00-16:15	talk	Adrià Bellvert	Tempo and mode of diversification in red devil spiders (Araneae: Dysderidae) from the Canary Islands
16:15-16:30	talk	Natasha Tilikj	Subterranean sleeping beauty: Transcriptomics in long-term aestivation and arousal of Mediterranean earthworms
16:30-16:45	talk	Seraïna Bracamonte	Patterns of diversification of a Neotropical crater lake cichlid fish
16:45-17:00	talk	Vanina Tonzo	The genomic basis of convergent adaptations to different subterranean environments
17:00-17:10	invited talk	Isabel Rey	DISSCO project

17:15-19:00 POSTER SESSION

20:30 Congress dinner: Los Galayos

DAY 3: THURSDAY 26TH OCTOBER

09:00-09:45	Plenary talk	Isabel Sanmartín	Machine learning and new inference algorithms: expanding what is possible in evolutionary biology and phylogenetic analysis
Phylogeography & Population genomics: Session P1: Chairs Isabel San Martín y Juanes Uribe			
9:45-10:00	talk	Loukia Spilani	Phylogeography and conservation of <i>Melitaea diamina</i> (Lepidoptera, Nymphalidae): southern relict populations trapped by climate change
10:00-10:15	talk	Carlota Gracia-Sancha	The population genomics of <i>Eunice</i> deep-water coral-associated polychaete worms in the NE Atlantic

10:15-10:30	talk	Daniel Dols-Serrate	Chromosomal rearrangements, hybridization and more: the complex evolutionary history of <i>Dugesia</i> in the Corso-Sardinian archipelago
10:30-11:00	Coffee break		
Population genomics: Session P2: Chairs Marta Novo y Vanina Tonzo			
11:00-11:15	talk	Marta Martín-Huete	Adaptation and divergence of <i>Marthasterias glacialis</i> based on single nucleotide polymorphisms
11:15-11:30	talk	Alfonso Balmori-de la Puente	Characterization of inversions' frequencies across Iberia populations of <i>Littorina saxatilis</i> and their role in diversification
11:30-11:45	talk	Bernat Burriel-Carranza	Conservation genomics of the Emirati Leaf-toed Gecko (<i>Asaccus caudivolvulus</i> ; Gekkota; Squamata), a Critically Endangered endemism of the United Arab Emirates
11:45-12:00	talk	Carles Galà-Camps	Lessons from pangenomes: Genetic variant richness enables global invasiveness to <i>Styela plicata</i>
12:00-12:05	speed talk	Lucía Sainz	Assessing land cover influence on dispersal and connectivity between Iberian populations of <i>Chirocephalus diaphanus</i> Prévost, 1803 (Anostraca: Branchiopoda)
12:05-12:10	speed talk	Marc Peralta	A genomic analysis of <i>Diadema africanum</i> populations: an engineering species in the West African region
12:10-12:15	speed talk	Paloma Mas-Peinado	Following the arid tribe Adesmiini footsteps (Coleoptera: Tenebrionidae) across deserts worldwide
12:15-12:20	speed talk	Valéria Marques	Allopatric and ecological diversification in <i>Cyaniris semiargus</i> (Lepidoptera, Lycaenidae)
12:20-12:25	speed talk	Carmen Duque-Amado	Diversification patterns of the genus <i>Scaurus</i> (Coleoptera: Tenebrionidae) in the western Mediterranean Region
12:25-12:30	Questions for speed talk presenters		
12:30-13:00	Farewell and closing		