



# 18 ICA

INTERNATIONAL  
COLLOQUIUM  
ON AMPHIPODA

Dijon – France

26-30 August 2019



BIOGÉ  SCIENCES

The venue of the Colloquium is the "Gabriel" building, located on the university of Burgundy campus, 6 boulevard Gabriel, 21000 Dijon.

GPS coordinates: 47°18'57.94"N 5°03'55.51"E.



Above both entrances (A and B) a  $1.2 \times 4$  m banner is displayed as below:



The University campus is located ca 35 minutes walking distance from the city center but only 15 minutes travelling by TRAM. Take Line T1 direction *QUÉTIGNY* and stop at *Érasme* station. The *Anti Robot* sculpture (quite colorful and 6 m high) is a also good landmark.

If you are coming by car, be aware that **NO PARKING** is allowed on the University Campus.

The overall Colloquium will be held in **Gabriel Building**. Registration, get-together welcome drink, coffee breaks, lunch breaks and the poster session will take place in the Central Ground Floor Hall (**CGFH**). All **PLs** and **OCs** will be held in Pasteur Amphitheatre (**PA**), first floor, central part of the building.

WELCOME TO DIJON!

After Portugal (Aveiro, 2015) and Italy (Trapani, 2017)... **we are happy to host in Dijon the 18th International Colloquium on Amphipoda.**

**We will be 130 delegates from 27 countries.**

The Colloquium will include:

- Three **Plenary Lectures (PLs)** from 3 invited speakers: *Dr NICOLAS PUIILLANDRE (MNHN, France); Pr ALEX FORD (Univ. of Portsmouth, UK) and Dr JOSE MANUEL GUERRA GARCIA (Univ. of Sevilla, Spain)*
- Fifty eight (58) **Oral Communications (OCs)**
- Fifty four (54) **Posters (Ps)**.

The present printed Booklet is only including the program and practical details. While **PLs**, **OCs** and **Ps** are presented with title and authors, only abstracts of the **PLs** are included in the present document. All the abstracts are included in an other document: the book of abstracts, **which will be not printed** and is only provided as pdf document.

No parallel sessions will be organized and **OCs** were tentatively organised in thematic sessions (e.g. bio-pylogeography, ecology...) A dedicated session of almost 3 hours is planned for **Ps**.

The overall Colloquium will be held in **Gabriel Building**. All **PLs** and **OCs** will be held in Pasteur Amphitheatre (**PA**), first floor, central part of the building. Registration, coffee breaks, lunch breaks and poster session will be held in the Central Ground Floor Hall (**CGFH**) of the building.

Above all, following a long lasting tradition, we hope that this International Colloquium on Amphipoda will be an exciting forum for scientific exchanges among researchers, where students find a unique environment to meet and connect with senior researchers. Long coffee breaks and long lunch breaks around a buffet will hopefully leave enough time for friendly and fruitfull discussions.

Thierry Rigaud & Rémi Wattier, co-coordinators

## Organizing Committee

The co-coordinators of the Organizing Committee, Thierry Rigaud and Rémi Wattier would like to thank all the students and staff members of the UMR Biogéosciences for their unvaluable involvement in organizing the 18th ICA.

Aude Balourdet

Laetitia Bassereau-Vauthier

Alexandre Bauer

Edwijis Castro-Mercader

Claire Fabre

Marion Fayard

Sébastien Motreuil

Adrien Quiles

Isabelle Santacroce

Jean-Emmanuel Rollin

Maria Teixeira

Nicole Vitale

## Local and international scientific committee

Jan Beermann (Germany)

Loïc Bollache (France)

Oliver Coleman (Germany)

Filipe Costa (Portugal)

Cene Fiser (Slovenia)

Michal Grabowski (Poland)

José Guerra García (Spain)

Ed Hendrycks (Canada)

Lauren Hughes (UK)

Anne-Nina Lörz (Germany)

Yannick Moret (France)

Murat Ozbek (Turkey)

Marie-Jeanne Perrot-Minot (France)

Cristiana Serejo (Brazil)

Anne-Helen Tanberg (Norway)

## Honorary Committee

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Claude de Broyer (Belgium)

Krzysztof Jazdzewski (Poland)

Gordan Karaman (Montenegro)

Traudl Krapp-Schickel (Germany)

Jim Lowry (Australian)

Ilona Muskó (Hungary)

Alan Myers (Ireland)

Boris Sket (Slovenia)

Wim Vader (Norway)

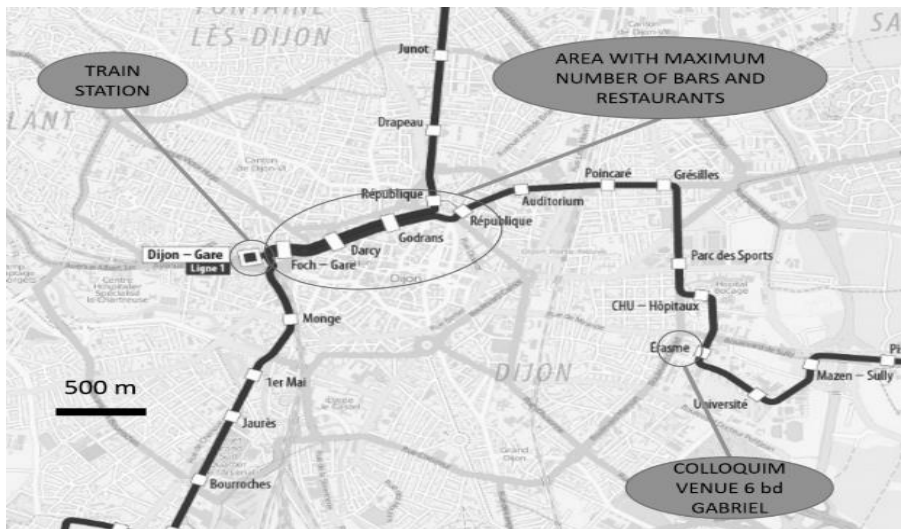
# Monday August 26th

**Registration (14.00-20.00 – CGFH)**

**Get together - Welcome drink (17.00-20.00 – CGFH)**

**Free evening (20.00-...)**

Dijon is a city of many gastronomies. You will find plenty of restaurants, brasseries and snacks downtown (circled area on the map below). Menus can range from both French cuisine (burgundy beef stew, snails, meurette eggs) to almost any type of worldwide cuisine. Some pizzerias even serve pizzas with snails!!!



# Tuesday August 27th

**Registration (08.30-09.00 – CGFH)**

**Welcome Talk (09.00-09.15 – PA)**

**Plenary Lecture 1 (09.15-10.00 – PA)**

**Chairperson: Rémi Wattier**

**PL1** DNA Barcoding, DNA taxonomy and integrative taxonomy:  
separating the wheat from the chaff (**N Puillandre**)

The DNA Barcoding revolution started in 2004, and soon after had to face severe criticisms, mainly from taxonomists. Among other deadly sins, they accused the DNA barcoders to ignore the traditional approaches, and, by doing so, to reinforce the taxonomic impediment, instead of reducing it. But most of the controversy was based on misunderstandings, and if clarifications have been proposed about what DNA Barcoding can and cannot do, it remains sometimes difficult to conciliate it with traditional taxonomy. During my talk, I will thus (re-)define what is DNA Barcoding, in its restricted sense but also in its expanded applications, such as DNA taxonomy, and, when combined with other characters, criteria and methods of species delimitation, integrative taxonomy. I will insist on the differences between specimen identification and species delimitation, and will also elaborate on recent advances in the so-called "species concept debate". I will conclude with several examples, to illustrate why apparent contradictions between different characters, such as DNA and morphology, actually help not only to reinforce the species hypotheses, but also to propose hypotheses on the processes at their origin.

## Session 1a: Phylo-bio-geography (10.00-10.30 – PA)

Chairperson: Rémi Wattier

- 10.00-OC1** Molecular phylogeny, habitat shifts and the evolutionary timescale of the Amphipoda (**D Copilas-Ciocianu**, Š Borko & C Fišer)
- 10.15-OC2** The oldest record of Amphipoda: a 260-million-year old fossil from Brazil (**PG Pazinato**, C Haug, JT Haug, R Rohn, K Adami-Rodrigues, M Cardoso Langer & R Pirani Ghilardi)

## Coffee break (10.30-11.00 – CGFH)

## Session 1b: Phylo-bio-geography (11.00-12.30 – PA)

Chairperson: Cene Fiser

- 11.00-OC3** Cryptic diversity and ancient divergence in two species of amphipods from central Mediterranean Sea (**R Cimmaruta**, C Abbattista, B Bellisario, F Camisa & G Nascetti)
- 11.15-OC4** Comparative molecular diversity and historical demography of two gammarid species as indicators of "Atlantification" in the High Arctic (M Grabowski, **A Jabłońska**, A Weydmann-Zwolicka, M Gantsevich, P Strelkov, M Skazina & JM Węśławski)
- 11.30-OC5** Morphological and molecular comparison between populations of scuds from *Hyalella* genus from two States in Mexico: Veracruz and Ciudad de Mexico, Mexico (**A Marrón-Becerra**, M Hermoso-Salazar & G Wellborn)
- 11.45-OC6** Bathymetric and geographic patterns of amphipods from Kuril-Kamchatka Trench and adjacent abyssal plain (**A Jazdżewska** & T Mamos)

- 12.00-OC7** Genetic diversity and connectivity of the *Eusirus perdentatus* species complex (Amphipoda, Crustacea) on the Antarctic continental shelf (**ML Verheye**, C d'Udekem d'Acoz, L Salabao, I Schön & A Van de Putte)
- 12.15-OC8** First glance at molecular diversity and phylogeography of Periadriatic freshwater gammarids (**M Grabowski**, T Mamos, K Hupaló, W Wrzesinska, M Jelic, K Zganec, A Wysocka & R Wattier)

## Lunch break (12.30-14.00 – CGFH)

## Session 1c: Phylo-bio-geography (14.00-15.30 – PA)

**Chairperson: Anne-Nina Lörz**

- 14.00-OC9** The phylogeography and classification of the Talitroidea (Amphipoda, Senticaudata) (**AA Myers & JK Lowry**)
- 14.15-OC10** Phylogeography of the invasive amphipod *Pontogammarus robustoides* (Crustacea) in native and colonized range (T Rewicz, **K Baćela Spsychalska**, N Berezina & M Grabowski)
- 14.30-OC11** Exploring introduction events and temporal genetic variation of the exotic *Caprella scaura* in Southern Spain (**G Martínez-Laiz**, M Ros, JM Guerra-García, AM Santos & MP Cabezas)
- 14.45-OC12** Origin, diversity and distribution of freshwater amphipods in Northern Africa (**K Ayati**, R Hadjab, H Khammar, S Dhaouadi & C Piscart)
- 15.00-OC13** Diversification underground: adaptive radiation in genus *Niphargus* (**Š Borko & C Fišer**)
- 15.15-OC14** Dispersal of subterranean amphipods during marine regressions (**T Delić**, F Stoch, Š Borko, J-F Flot & C Fišer)

## Coffee break (15.30-16.00 – CGFH)



## Session 1d: Phylo-bio-geography (16.00-17.15 – PA)

Chairperson: Filipe Costa

- 16.00-OC15** Freshwater amphipods of Mediterranean Islands – fascinating findings and exciting perspectives (**K Hupalo**, F Stoch, I Karaouzas, T Mamos, T Rewicz, Z Csabai, J-F Flot & M Grabowski)
- 16.15-OC16** Connectivity and putative native ranges of the two “cosmopolitan” biofouling amphipod species, *Jassa marmorata* and *Jassa slatteryi* (**A Hall-Mullen**, A Desiderato, C Havermans, C Held & J Beermann)
- 16.30-OC17** Amphipoda from the Reykjanes Ridge, Iceland, with a focus on their coral associations (**AN Lörz**, M Schwentner, AH Tandberg, J Taylor & S Brix)
- 16.45-OC18** Persian Gulf as a hotspot or coldspot of biodiversity; evidence from *Ampelisca* (Amphipoda: Ampeliscidae) diversity from PGGOOS expedition (**F Momtazi**)
- 17.00-OC19** The biodiversity of deep-sea scavenging Amphipoda in the Pacific Ocean (**T Patel**, H Robert, C d'Udekem d'Acoz, I De Mesel, K Martens, S Degraer & I Schön)

## Poster session (17.15-20.00 – CGFH)

- P1** Evaluation of the antioxidant potential of Baikal endemic amphipod *Eulimnogammarus verrucosus* (**DV Axenov-Gribanov**, YA Lubyaga, ES Protasov, ME Krasnova, EV Pereliaeva, UA Vasilieva, XX Shatilina & MA Timofeyev)
- P2** Effect of diet on growth and fatty acid profile of the marine amphipods *Echinogammarus marinus* and *Gammarus locusta* (H Alberts-Hubatsch, MJ Slater & **J Beermann**)
- P3** Do intersex amphipods get a bad rap? (**TL Brown**)

- P4** Long-term observations of high frequencies of intersex females in two populations of the freshwater amphipod *Gammarus minus* (Say, 1818) (**TL Brown**, DS Glazier, RA Downer & AT Ford)
- P5** A first in depth look at the Amphipod fauna of the Easter Island (**C Caurant**, L Hughes, M Thiel & J Beermann)
- P6** Inter-/intra-specific variability in contaminant sensitivity in *Gammarus fossarum-pulex* (**A Chaumot**, R Wattier, T Rigaud & O Geffard)
- P7** Thiothrix–amphipod symbiotic relationships (**C Chauveau**, D Weber, EJ Fleming, SM Sarbu, T Brad & J-F Flot)
- P8** Be my guest: amphipods living in tubes of Ceriantharia (**H Ceriello** & SN Stampar)
- P9** Shadings in digital taxonomic drawings (**CO Coleman**)
- P10** Functional morphological and trophic niche differentiation in a community of freshwater amphipods (**D Copilaş-Ciocianu** & B-V Boros)
- P11** Combining molecules and morphology to describe cryptic new species – the *Bathyceradocus* genus case (L Corbari, A Jazdzewska & **A Ziemkiewicz**)
- P12** Effect of substrate and seagrass habitat complexity on detritus colonization and decomposition in a Mediterranean coastal lagoon (Thau Lagoon, France): a focus on amphipod community (**V Costa**, D Iacofano, S Lo Brutto & F Rossi)
- P13** Coloring outside the lines: cryptic diversity in podoceric amphipods (**BC Cummings** & G Paulay)
- P14** DNA sequencing and morphological analysis of an undescribed *Salentinella* species (Amphipoda, Salentinellidae) from an anchialine cave in Peloponnese, Greece (D Davolos, C Calcari, **E De Matthaeis** & C Di Russo)
- P15** On the evolution of terrestrial talitrid amphipods from Atlantic volcanic archipelagos, with a new species from the islands of Graciosa and Flores, Azores (D Davolos, **E De Matthaeis**, L Latella & R Vonk)

- P16** ToxMate: an autonomous online biomonitoring tool of water effluent quality based on the video analysis of the locomotor behaviour of the amphipod *Gammarus fossarum* (A Decamps, **A Chaumot**, M Dauphin, N Delorme, A François, L Garnero, F Moulin, H Quéau, D Neuzeret & O Geffard)
- P17** Phenotypical and genetic characters of the giant Antarctic *Eusirus* of the *perdentatus* complex, with the presentation of a new species (C **d’Udekem d’Acoz** & ML Verheye)
- P18** Insights into the ecology of *Cryptorchestia garbinii* on the shores of the urban Lake Tegel (Berlin) (**L Fanini**, CO Coleman & JK Lowry)
- P19** Anxiety-like state and fear in gammarids: coupled or dissociative emotions? (**M Fayard**, MJ Perrot-Minnot & F Cézilly)
- P20** Do artificial structures create a functional shift in coastal benthic communities? (**M Florido**, F Espinosa, C Navarro-Barranco & F Sedano)
- P21** The deep-sea Eusiridae from Papua New Guinea waters (SW Pacific Ocean) (**I Frutos**, JC Sorbe & L Corbari)
- P22** What do parasites do when their hosts diverge and meet again? Diversity of microsporidian parasites in central European lineages of the *Gammarus fossarum* species complex (**M Gajdošová**, E Hendrychová, M Hylíš & A Petrušek)
- P23** Diversity and distribution of freshwater amphipods from Algeria (**R Hadjab**, K Ayati, H Khammar, D Merzoug & C Piscart)
- P24** Pacific species of *Epimeria* (Amphipoda: Amphilocheia, Epimeriidae) with a description of a new deep-sea species from SW Mexico (**M Hendrickx** & I Winfield)
- P25** Two new species of the rare, deep-sea genus *Vemana* (Amphipoda: Vemanidae) from the northeast and southeast Atlantic (**EA Hendrycks** & MH Thurston)
- P26** Historic Peracarid Crustacea collections in The Natural History Museum, London (A Herdman, **LE Hughes** & M Lowe)

- P27** A project's blueprint: drivers of cryptic species coexistence in freshwater gammarid communities of Sicily (**K Hupało**, A Weigand, M Weiss, F Altermatt, D Fontaneto, M Grabowski, D Grabner, B Sures & F Leese)
- P28** New insights on the deep-sea amphipods from the sea of Okhotsk (NW Pacific) (**A Jażdżewska** & I Frutos)
- P29** Barcoding of deep-sea Northwest Pacific Oedicerotidae (A Jażdżewska & **K Kapuścińska**)
- P30** Integrative evidence for hidden species diversity and long-term divergence within *Gammarus balcanicus* Schäferna 1923 morphospecies in the northernmost part of the Carpathian Arc (**K Jażdżewski**, T Mamos, Z Čiamporová-Zaťovičová, F Čiampor & M Grabowski)
- P31** Active biomonitoring using the freshwater amphipod *Gammarus fossarum*: an operational method to monitor chemical contamination and ecotoxicity in watercourses at the French national scale (G Jubeaux, R Recoura-Massaquant, **A Chaumot** & O Geffard)
- P32** First insights into the deep-sea scavengers at hydrothermal vent fields along the Southeast Indian Ridge (**K Kniesz**, A Jażdżewska, TC Kihara & PM Arbizu)
- P33** *Gammarus lacustris* (Sars, 1863) sexual behavior in small brackish lakes of West Siberian Plain southwest part (**OV Kozlov**, SV Arshevsky, OV Arshevskaya & AV Pavlenko)
- P34** Combining artificial substrates, morphology and DNA metabarcoding for investigating marine amphipod communities in NW Iberia (BR Leite, **PE Vieira**, JS Troncoso & FO Costa)
- P35** First records of two hyperiid amphipods *Phronima atlantica* and *Oxycephalus clausi* from Korea (B-J Lim & **M-H Shin**)
- P36** Stable indicators of energy metabolism and non-specific stress response as a strategy of biochemical adaptation in eurybathic Baikal amphipods of the genus *Ommatogammarus* (EV Madyarova, YA Shirokova, DV Axenov-Gribanov, DS Bedulina, VA Emshanova, ZM Shatilina & **MA Timofeyev**)

- P37** Temporal variation of the amphipod assemblage on sandy sediments at the Ría de Ferrol (Galicia, NW Iberian Peninsula) (**J Moreira**, G Santos De-La-Fuente, C García-Rodríguez, G Díaz-Agras & C Navarro-Barranco)
- P38** Spatial patterns of coastal amphipods collected by light traps in South Spain (**C Navarro-Barranco**, A Irazabal & J Moreira)
- P39** Amphipod response to host-complexity along an environmental stress gradient (**C Navarro-Barranco**, PE Gribben, J Ledet & AGB Poore)
- P40** A faunistic description of the Amphipod-fauna of Hjeltefjord, Western-Norway. (**CH Østensvig**, AHS Tandberg & HT Rapp)
- P41** Syntopic coexistence of gammarid cryptic lineages: rule or exception? (**A Petrusek**, T Rutová, PK Bystřický, M Gajdošová, A Beermann, P Pařil, M Horsák, D Copilas-Ciocianu & F Leese)
- P42** Amphipod inhabiting the invasive macroalgae *Sargassum muticum* in the English Channel (**J-P Pezy**, A Raoux & J-C Dauvin)
- P43** Interaction of species, temperature and parasitism may facilitate replacement of native amphipod by invasive species, impacting vital ecosystem process of detritivory (**B Pile**, C Hassall, L Brown & AM Dunn)
- P44** Amphipod diversity assessment of fish-farming environmental impact (W Plaiti, D Podaras, K Mylona & **L Fanini**)
- P45** Reconstructing population histories and biogeography of Antarctic *Charcotia* (Amphipoda, Crustacea) (**T Plevoets**, H Robert, M Kochzius & I Schön)
- P46** Trophic differentiation of *Niphargus* amphipods (**E Premate**, C Touchet, Š Borko, T Delić, F Malard, L Simon & C Fišer)
- P47** Microsporidian infections in the *Gammarus roeselii* species complex (Amphipoda) over its geographic range (**A Quiles**, K Bacela-Spychalska, M Teixeira, N Lambin, M Grabowski, T Rigaud & RA Wattier)
- P48** Estimating the actual biodiversity and evolutionary history of the amphipod genus *Eusirus* in the Southern Ocean (**L Salabao**, B Frédéric, G Lepoint, ML Verheye & I Schön)

- P49** Sediment: Amphipod relationship in a tropical intertidal habitat, South Andaman Islands, India (**K Satyam**, G Thiruchitrabalam, RK Lakra, M Savurirajan & J Equbal)
- P50** First records of amphipod species in the Gulf of Naples (Italy, Mediterranean Sea) (**MB Scipione**, M Lorenti, R Guglielmo & FP Patti)
- P51** First impressions on the Amphipoda of Dronning Maud Land, Antarctica. Results from the Norwegian 2019-cruise (**AHS Tandberg**, T Falkenhaus, A Sveistrup, T Ulvatn, JH Simonsen & S Ambroso)
- P52** Amphipods in macrofouling communities of the port of the area of Livorno (northern Tyrrhenian Sea) (**J Tempesti**, J Langeneck & A Castelli)
- P53** Distribution patterns of amphipod assemblages along the Iberian Atlantic rocky shores (**PE Vieira**, A Desiderato, FO Costa & H Queiroga)
- P54** When one becomes 15: Morphological vs. molecular species delimitation in the "*Niphargus aquilex*" complex (**D Weber**, T Brad, A Weigand & J-F Flot)

## Free evening (20.00-...)

# Wednesday August 28th

## Plenary Lecture 2 (09.00-09.45 – PA)

Chairperson: Thierry Rigaud

**PL2** Amphipod ecotoxicology: endocrine disrupting pollution and endocrine disrupting parasites (**A Ford**)

Our understanding of amphipod biology and ecology has a rich history extending back over a century. This coupled with their ecological importance and species diversity has meant they have been used extensively in ecotoxicology to assess the health of aquatic ecosystems. Since the late 1990s scientists have become concerned that a variety of different pollutants have the capacity to alter the endocrine systems of wildlife resulting in reproductive abnormalities and intersexuality. Despite this concern, our understanding of endocrine disrupting chemicals in crustaceans is still relatively poor. Many amphipods are prone to infections by parasites which can alter sex ratios and behaviour along endocrine mediated pathways. These parasites, despite sometimes ignored or considered an inconvenient 'noise' in environmental monitoring have the capacity to inform and conceptualise the impacts of endocrine disrupting chemicals. For example, incomplete feminisation by parasites can sometimes leave populations with a very high prevalence of intersexuality. Intersex specimens carry a burden of altered growth, reproduction and immunity. In addition, behaviour altering parasites utilising serotonin mediated pathways can leave organisms with increased likelihood of predation. For the past 15 years we have been researching amphipods which have feminising and behavioural altering parasites that are being used to determine adverse outcomes (AOs) for reproductive and neurological endocrine disruption. Using the marine amphipod (*Echinogammarus marinus*) as a model, we have determined the differential gene expression of male vs female specimens and organisms with parasite and non-parasite mediated intersexuality. We have created a toolbox of sex 'specific' genes and highlight that existing vertebrate biomarkers of feminisation should not be applied to crustaceans, as orthologous genes are not induced in feminised amphipods. Moreover, we have used behavioural and serotonin altering parasites to develop behavioural tests to inform serotonin altering pollutants such as antidepressants. These in turn have revealed insightful biological pathways using molecular approaches. All these reproductive and behavioural costs have been used to parametrize a dynamic deterministic population model over 10 year scenarios striking effects on long-term populations. These studies have provided the necessary information and tools to better understand the risk posed to pollution and underscore the importance of understanding parasites in ecological systems.

## Session 2a: Ecotoxicology (09.45-10.30 – PA)

Chairperson: Thierry Rigaud

- 09.45-OC20** Molecular omics resources and tools for amphipod investigation (Y Cogne, D Gouveia, O Pible, A Chaumot, D Degli-Esposti, O Geffard, C Almunia & **J Armengaud**)
- 10.00-OC21** From proteogenomics to systems biology in the freshwater amphipod *Gammarus fossarum* (**D Degli Esposti**, N Koenig, Y Cogne, D Gouveia, A Chaumot, C Almunia, J Armengaud & O Geffard)
- 10.15-OC22** Transcriptional profiles and differential exposure in response to abiotic stressors in endemic Lake Baikal amphipods *Eulimnogammarus verrucosus* and *E. cyaneus* compared to that in a common Holarctic species *Gammarus lacustris* (**P Drozdova**, L Rivarola-Duarte, D Bedulina, T Luckenbach, M Timofeyev & PF Stadler)

## Coffee break (10.30-11.00 – CGFH)

## Session 2b: Ecotoxicology (11.00-12.15 – PA)

Chairperson: Lauren Hughes

- 11.00-OC23** Effects of injection of non-biodegradable polyelectrolyte microcapsules into the amphipod circulatory system (**A Gurkov**, E Shchapova, A Nazarova, Y Rzhechitskiy, A Saranchina & M Timofeyev)
- 11.15-OC24** The use of amphipods as biomonitors of environmental health change using trace element analysis (**RA Peart**, M Handler, R Wyszczanski, M Holmes & C Seabrook)
- 11.30-OC25** First approach to the use of an index based on a polychaete/amphipod ratio to detect pollutant in marinas (**A Fernández-Romero**, J Moreira & JM Guerra-García)



**11.45-OC26** Responses of *Orchestia gammarellus* (Amphipoda, Talitridae) to copper contaminated soil (**R Jelassi**, H Khemaissia, C Ghemari, A Ayari, M Raimond, C Souty-Grosset & K Nasri-Ammar)

**12.00-OC27** Effect of organic and metallic pollutants on the density of micro-amphipods in northeastern Tunisia: case of some coastal localities (**M El Gtari** & F Charfi-Cheikhrouha)

## **Who will organize the 19th ICA? (12.15-12.30 – PA)**

If you are interested in organizing the 19th edition, here is the right time to present a small slide show about what you have to propose.

## **Lunch break (12.30-14.00 – CGFH)**

## **Cultural trip and colloquium diner in Beaune (14.00-midnight)**

**Cultural trip & conference diner is an inclusive package only available to participants who registered for it, sorry.**

14.00. A bus will bring you along a scenic route along famous vineyards to Beaune, the real capital of wine in Burgundy.

15.00-18.45. Free visit of Beaune. Many things to see and do (medieval old buildings, tourist shopping, churches, Beaune Hospices...) Even vineyards are a walking distance from the city center.

18.45-19.45. Cellar visit (3 million bottles) and wines tasting.

20.00-23.30. Conference diner in 17th century convent cellar.

23.30-midnight. Trip back by bus on highway to Dijon.

# Thursday August 29th

## Plenary lecture 3 (09.30-10.15 – PA)

**Chairperson: Rémi Wattier**

**PL3** Fifty years of amphipod meetings. Taxonomical, ecological and behavioural patterns of the amphipodologist community  
**(JM Guerra-García)**

In this ICA in Dijon we commemorate fifty years of Amphipod meetings, since the first one in Verona in 1969 organised by Sandro Ruffo and Traudl Krapp-Shickel. The amphipod family is growing: in the last 10 years the number of participants in ICAs has triplicated and the number of represented countries has duplicated. Regarding the topics addressed in ICAs, there has been increasing interest in molecular systematics, physiological aspects and applied research (e.g. toxicology, aquaculture). Since 1969 the annual rate of newly described amphipod species has also significantly increased, with a higher proportion of species now described by multiple authors instead of single ones, including not only taxonomical information (both morphological and molecular) but also ecological and behavioural data. The active participation of amphipodologists in WoRMS is also remarkable. Important advances using amphipods as models in proteogenomic, transcriptomic and mitogenomic studies have been achieved throughout the last decade, and detailed studies dealing with invasive species, life histories, behaviour and trophic ecology have also been presented in ICAs and published. The progress in the use of amphipods as bioindicators and as resource in aquaculture (live food for several species of commercial interest and also elements of Integrate Multitrophic Aquaculture systems) is especially interesting. Amphipods have also attracted the attention of different media during the last few years, and two amphipods, *Liropus minusculus* and *Epimeria quasimodo* have been among the top ten new species, in 2014 and 2018 respectively, selected from a total of ca. 15,000 species described annually. Despite the increasing interest in amphipod research, there is still a long way to go to understand and convey the importance of this group. Amphipod meetings are a great opportunity to highlight the importance of amphipods in ecosystems and the relevance of their applications in our society and thus convince authorities, governments and funding agencies that it is worthwhile to invest in amphipods. But above all, ICA meetings remind us that Amphipoda represent a way of life that is shared between these creatures and ourselves. With this presentation we will discover that we amphipodologists are not so different from our beloved amphipods...

## Session 3: Public outreach (10.15-10.30 – PA)

Chairperson: Rémi Wattier

**10.15-OC28** Amphipod-based public outreach: a dream or a possibility?  
(AH Tandberg)

## Coffee break (10.30-11.00 – CGFH)

## Session 4a: Ecology (11.00-12.30 – PA)

Chairperson: Jan Beermann

- 11.00-OC29** Functional ecology of the genus *Niphargus* (C Fišer, F Altermatt, D Copilas-Ciocianu, T Delić, Ž Fišer, A Jemec-Kokalj, S Kralj-Fišer, E Premate, P Trontel, M Zagmajster & V Zakšek)
- 11.15-OC30** The impact of pelagic food falls on an amphipod dominated scavenger community in the Deep Norwegian Sea, an experimental approach (SL Scheer, K Sweetman, U Piatkowski & HJT Hoving)
- 11.30-OC31** Density-dependent leaf litter consumption in experimental amphipod communities (R Alther, A Krähenbühl, CJ Little & F Altermatt)
- 11.45-OC32** Large seaweeds and small consumers: the role of amphipods in Arctic food webs (J Beermann, L Gutow & B Lebreton)
- 12.00-OC33** Abundance and food preferences of amphipods (Crustacea: Amphipoda) in the Eastern Gulf of Finland, Baltic Sea (NA Berezina & AA Maximov)
- 12.15-OC34** Scavenging amphipods of the abyssal and hadal Wallaby-Zenith Fracture Zone in the East Indian Ocean (J Weston, RA Peart, H Ritchie, SB Piertney, H Stewart, T Linley & AJ Jamieson)

## Lunch break (12.30-14.00 – CGFH)

### Session 4b: Ecology (14.00-15.30 – PA)

Chairperson: José Guerra Garcia

**14.00-OC35** Disparity in oxygen demand of native *Gammarus lacustris* and invasive *Pontogammarus robustoides* – which is superior under deteriorating environment? (**E Šidagytė-Copilaš** & K Arbačiauskas)

**14.15-OC36** Adaptation to cold as a possible advantage of Lake Baikal endemic amphipods *Eulimnogammarus verrucosus* and *E. cyaneus* compared to a potential invader *Gammarus lacustris* (**KP Vereshchagina**, ES Kondrateva, AD Mutin, DV Axenov-Gribanov, EV Madyarova & MA Timofeyev)

**14.30-OC37** Are all cryptic gammarid hosts a constant resource for their acanthocephalan parasites? (**A Bauer** & T Rigaud)

**14.45-OC38** Cryptic diversity, mate discrimination and cannibalism among amphipod lineages: if you can't mate with them, eat them! (**C Lagrue**, M Galipaud & L Bollache)

**15.00-OC39** Fouling amphipods, testing correlations with port effect and salinity gradient while facing taxonomic impediment (**A Desiderato**, J Beermann, JP Bozina Pine, L Sandrini-Neto, C Havermans, C Held & MA Haddad)

**15.15-OC40** *Cleonardopsis carinata* K.H. Barnard, 1916: a Capbreton 'canyon indicator species' questionably reported all around the world ocean (**I Frutos** & JC Sorbe)

## Coffee break (15.30-16.00 – CGFH)

## Session 4c: Ecology (16.00-17.30 – PA)

Chairperson: Anne-Helen Tanberg

- 16.00-OC41** From local to global: the network architecture of amphipod biodiversity in the Mediterranean Sea (**B Bellisario**, F Camisa, C Abbattista & R Cimmaruta)
- 16.15-OC42** A standardized methodology for monitoring and assessing fouling amphipod assemblages across spatio-temporal scales (**M Ros**, AT Revanales, V López de la Rosa, A Spinelli, A Fernández-Romero, JL Cervera-Currado & JM Guerra-García)
- 16.30-OC43** Are coastal defense structures shaping amphipod assemblages? (**F Sedano**, C Navarro-Barranco, JM Guerra-García & F Espinosa)
- 16.45-OC44** Effects of the amphipod *Gammarus insensibilis* in *Seriola dumerili* culture: growth, lipids profile and pigments (**P Jiménez-Prada**, S Jerez, JA Pérez, C Rodríguez, I Hachero-Cruzado & JM Guerra-García)
- 17.00-OC46** Small-scale phenotypic divergence highlights the underestimated value of amphipods as a model to study (contemporary) evolutionary divergence (**J Jourdan**, K Piro, A Weigand & M Plath)
- 17.15-OC47** Shape variations in *Parhyale darvishi*, the primary step of speciation (**Y Layeghi**, F Momtazi, A Bagherian Yazdi)

**Meeting of the scientific committee (17.45-18.45 – R4, CGFH)**

## **Cocktail (starting 19.00) and dancing (21.00-23.00... or more)**

All participants are offered a free cocktail in a bar downtown called *The Smart* (<https://www.le-smart.com/>), located 8 rue Claus Sluter, just 50m north of *place de la République*. Take TRAM T1 and stop at *République* station (a return free ticket is provided). The cocktail is free, just give to the barman the ICA ticket provided to you. You can have your cocktail any time you want from 19.00 till 23.00. The cellar under the bar is a dance-hall. It is privatized for ICA-only between 21.00 and 23.00. A DJ will play our playlist. After 23.00, we'll be able to stay and dance more, and more, but the dance-hall won't be privatized anymore.

# Friday August 30th

## Session 5a: How many taxa? (09.00-10.30 – PA)

Chairperson: Ed Hendryck

**09.00-OC48** Progress in the discovery of amphipod crustaceans (**T Arfianti**)

**09.15-OC49** Talitraits: a taxonomic backbone for talitrid amphipods' traits  
(**L Fanini**, O Defeo, AF Bessa, LE Hughes, D Iacifano,  
R Cardoso, X Zafeiropoulos, S Lo Brutto, L Vandepitte,  
B Vanhoorne, W Decock & J Lowry)

**09.30-OC50** French marine amphipod taxonomists: from the taxonomy to  
physiology (**JC Dauvin**, RA Kaïm-Malka & D Bellan-Santini)

**09.45-OC51** Non-native marine amphipod species in the English Channel  
(**J-P Pezy**, A Baffreau & J-C Dauvin)

**10.00-OC52** A new genus, new species and new records of  
Phoxocephalidae Sars, 1891 for the southeast and southern  
Brazil (**LF Andrade** & AR Senna)

**10.15-OC53** Taxonomic study of lysianassid amphipods in Korean waters  
(**J-H Heo** & Y-H Kim)

**10.30-OC54** First revision of UK caprellid amphipods in 75 years  
(**LE Hughes**)

## Coffee break (10.45-11.15 – CGFH)

## Session 5b: How many taxa? (11.15-12.15 – PA)

**Chairperson: Michal Grabowski**

- 11.15-OC55** DNA barcode reference library for European freshwater malacostracans: getting there (**T Mamós**, T Rewicz, K Bacela-Spychalska, K Hupaló, A Jablonska, K Zganec, M Jelic, A Wysocka, L Sworobowicz, D Copilas-Ciocianu, A Petrusek, R Wattier, J Hinić, V Slavevska-Stamenković & M Grabowski)
- 11.30-OC56** Broad-scale DNA barcode-based meta-species analyses of patterns of molecular variation in Amphipoda from world's oceans (**PE Vieira**, C Gonçalves, P Soares, H Queiroga & FO Costa)
- 11.45-OC57** DNA barcode availability for European groundwater macrocrustaceans (**M Zgmajster**, Š Borko, T Delić, C Douady, D Eme, C Fišer, F Malard, P Trontelj & A Weigand)
- 12.00-OC58** What public data can tell us about current practices in DNA barcoding amphipods (**AE Radulovici**)

## Goodbye talk of the 18th ICA (12.15-12-30 – PA)

### **BOLD Workshop (14.00-20.00)**

Room Wangari Muta Maathai (First floor, facing PA entrance)

Delegates who registered with Adriana Radulovici are welcome for this first **Mini-Workshop around DNA barcoding and BOLD**.



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# Sponsors

The co-coordinators are grateful to the following Sponsors: NHBS (100 €), Suez (tote bags), Centre National de la Recherche Scientifique -CNRS (note pads, pencils and bookmarks), University of Burgundy – uB as BQR - Bonus Quality Research (2000 €), Head of Unité Mixte de Recherche - UMR 6282 Biogéosciences (2500 €), Evolutionary Ecology and Samba research teams of UMR 6282 Biogéosciences (2150 €) and The Crustaceans Society (800 €).

Most of the collected money has been allocated to 18 Master and PhD Students grants and reduced fees for 8 colleagues from countries with limited funds. The remaining money greatly helps us in keeping fees as low as possible (especially for students) and the balance right.



# Notes

# Notes

# Mornings schedule

| Monday 26 | Tuesday 27                 | Wed. 28                    | Thursday 29                | Friday 30             |
|-----------|----------------------------|----------------------------|----------------------------|-----------------------|
|           | 08.30<br>Registration      |                            |                            |                       |
|           | 09.00 Welcome              | 09.00                      |                            | 09.00 OC48            |
|           | 09.15<br>Plenary 1         | Plenary 2                  |                            | 09.15 OC49            |
|           |                            | 09.45 OC20                 | 09.30                      | 09.30 OC50            |
|           | 10.00 OC1                  | 10.00 OC21                 | Plenary 3                  | 09.45 OC51            |
|           | 10.15 OC2                  | 10.15 OC22                 | 10.15 OC28                 | 10.00 OC52            |
|           | 10.30                      | 10.30                      | 10.30                      | 10.15 OC53            |
|           | Coffee break               | Coffee break               | Coffee break               | 10.30 OC54            |
|           | 11.00 OC3                  | 11.00 OC23                 | 11.00 OC29                 | 10.45<br>Coffee break |
|           | 11.15 OC4                  | 11.15 OC24                 | 11.15 OC30                 | 11.15 OC55            |
|           | 11.30 OC5                  | 11.30 OC25                 | 11.30 OC31                 | 11.30 OC56            |
|           | 11.45 OC6                  | 11.45 OC26                 | 11.45 OC32                 | 11.45 OC57            |
|           | 12.00 OC7                  | 12.00 OC27                 | 12.00 OC33                 | 12.00 OC58            |
|           | 12.15 OC8                  | 12.15 19th ICA?            | 12.15 OC34                 | 12.15 Goodbye         |
|           | 12.30-14.00<br>Lunch break | 12.30-14.00<br>Lunch break | 12.30-14.00<br>Lunch break |                       |

# Afternoons schedule

| Monday 26  | Tuesday 27   | Wed. 28  | Thursday 29  | Friday 30                                   |
|--|--|--|--|---|
| 14.00-17.00<br>Registration  | 14.00 OC9  | 14.00  | 14.00 OC35   | 14.00-20.00<br><br>BOLD<br>mini<br>workshop |
|  | 14.15 OC10   | Bus trip along                                   | 14.15 OC36   |   |
|  | 14.30 OC11   | famous   | 14.30 OC37   |   |
|  | 14.45 OC12   | vineyards  | 14.45 OC38   |   |
|  | 15.00 OC13   | Ca 15.00:  | 15.00 OC39   |   |
|  | 15.15 OC14   | Free visit                                       | 15.15 OC40   |   |
|  | 15.30<br>Coffee break  | of Beaune  | 15.30<br>Coffee break                              |   |
|  | 16.00 OC15   |  | 16.00 OC41   |   |
|  | 16.15 OC16   |  | 16.15 OC42   |   |
|  | 16.30 OC17   |  | 16.30 OC43   |   |
|  | 16.45 OC18   |  | 16.45 OC44   |   |
| 17.00-20.00<br>Welcome<br>get-together<br><br>(registration<br>continuing) | 17.00 OC19   |  | 17.00 OC45   |   |
|  | 17.15-20.00<br>Poster session<br>with local<br>products<br>tasting |  | 17.15 OC46   |   |
|  |  |  | 17.30 OC47   |   |
|  |  |  | 17.45-18.45<br>Meeting<br>of the<br>scientif. com. |   |
|  |  | 18.45<br>Cellar visit<br>wines tasting           | Cocktail in bar<br>any time<br>from 19.00          |   |
| 20.00<br>Free evening  | 20.00<br>Free evening  | 20.00<br>Conference<br>diner...<br>till midnight | 21.00-23.00<br>Private dance<br>hall + DJ          |   |