

**Coimbra, Portugal, 13-14 August 2012**



**ICA**

Coimbra 2012

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**SCIENTIFIC PROGRAMME**

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## - Welcome Message-

Dear all,

It is our great pleasure to welcome you to the XIII International Colloquium on Apterygota 2012. As its name suggests, this is the XIII international meeting of the academic community of research on the hexapods subclasses Collembola, Protura, and Diplura, and the insect orders Microcoryphia (Archeagnatha) and Zygentoma (Thysanura). This is the meeting for all researchers interested in creepers (or jumpers) with six legs and no wings. This meeting builds upon the first meeting held in Siena, Italy, already in 1978, which was preceded by three international Colloquia on Collembola. Since then the research community gathers together every two to four years, and the Colloquium, together with the international seminar on Apterygota, has become a place for researchers to share their fascination and knowledge on Apterygota.

The Colloquium, as well as the Seminar on Apterygota exists to report new developments in the taxonomy, systematics, ecophysiology, ecology, ecotoxicology, and evolution of Apterygota. The call for papers for this year's colloquium attracted 22 submissions of research papers and 29 submissions of posters, on a wide variety of topics. All research papers and posters were accepted by the colloquium programme committee and to be presented at the colloquium: These presentations will make up the symposiums' technical programme. Every submitted presentation was reviewed by three members of the programme committee. The symposium proceedings also include abstracts for the keynote talks, oral presentation, and posters to provide a record of the whole of the colloquium.

This year's colloquium is of course a team effort. We'd particularly like to thank every author who submitted a research paper or poster to the symposium; the programme committee who carefully considered them, and of course the chairs of the various sections of the colloquium. But although this has been an effort, it has also been an enjoyable one, so we hope you enjoy attending the XIII International Colloquium on Apterygota and meeting and interacting with the speakers and participants as much as we did in putting this together!

On behalf of the local organizing committee

**Paulo Sousa & Matty P. Berg**

## - Acknowledgements -

The organizing and scientific committees are pleased to acknowledge the institutions that generously granted or materially helped for this XIII International Colloquium on Apterygota.

### Host institutions



### Sponsors



## - General Information-

### Colloquium site

The XIII ICA Colloquium will be held at the central building of the Faculty of Science and Technology of the University of Coimbra (FCTUC) headquarters, located in Campus II (Pinhal de Marrocos – see map at end). Keynote and oral presentations will take place in the Amphitheatre B (1<sup>st</sup> floor); posters will be displayed in a close-by room which will be signaled.

### Registration

All participants and accompanying persons need to register immediately after arrival. This is an important point as only participants wearing their colloquium badges will be accepted to enter in the conference room and to participate to the full scientific program. The registration office will be located just before the access corridor to the Amphitheatre and will be opened on Monday, August 13<sup>th</sup>, from 8:30am to 6:00pm and Tuesday, August 14<sup>th</sup>, from 9:30am to 5:30pm.

Certificate of attendance will be delivered along with all the Colloquium documentation upon registration.

### Presentation of contributions

Three types of contributions will be presented during this Colloquium:

**Keynote presentations** (40 minutes, including time for comments and questions) will begin each session, addressing its topic in a thought-provoking way.

**Oral presentations** (20 minutes, including time for comments and questions) will be divided in 4 sessions, as listed in the scientific program, where information about each session's Chairman is also provided.

**Poster presentations** will take place in specific rooms, which will be indicated and pointed out at the beginning of the Colloquium.

For keynote and oral presentations, please contact the Secretariat to hand your PowerPoint or Open Office presentations in advance, in order to avoid any problem of incompatibility between different software versions from the ones installed on the Colloquium computers.

Posters should be displayed on the provided holders, which will be identified with the code indicated on the scientific program. Poster presenters are asked to hang their posters in time for their specified session – posters can be hung at any moment from the morning of Monday, August 13<sup>th</sup> and should be removed by the end of the Colloquium.

### **Computer Room and Internet Access**

A computer room (with internet access) will be available and signalized during the Colloquium. However, we encourage participants to bring their own laptops if possible - wireless internet connection access codes will be provided upon registration.

### **Coffee breaks / Lunches**

Morning and afternoon coffee breaks as well as lunches will be provided in a nearby room to the Amphitheatre (which will be signalized). Times for breaks are noted on each day of the Colloquium Scientific Program.

### **Welcome Reception**

A welcome reception will be offered to participants on the first day of the Colloquium (Monday, August 13<sup>th</sup>) at 6:30pm. This reception will take place at Museu da Ciência, which is located at Campus I of the University of Coimbra (Largo Marquês de Pombal – see map at end). Participants will have the opportunity to taste some of the local delicacies as well as to get in touch with Coimbra's cultural heritage and traditions.

Transport from the Colloquium site to the welcome reception venue will be available by means of a shuttle bus (see section "Transportation" for details).

### **Colloquium dinner**

The Colloquium dinner will be held on Tuesday, August 14<sup>th</sup>, at 8:30pm in Quinta do Loreto (see map at end). The dinner menu will include an assortment of Portuguese delicacies, along with European cuisine dishes. If you have special dietary requests, please inform so during registration.

Transport from downtown Coimbra to the Colloquium dinner site will be available by means of a shuttle bus (see section "Transportation" for details).

### **Transportation**

The Colloquium site can be reached by bus (line 38): this line passes by Portagem (downtown Coimbra, close to Astoria and Ibis Hotels) and stops right outside the Colloquium site in Campus II. This line is operating on a holiday timetable, with very limited schedule options: buses pass by Portagem at 8:05am / 9:00am (approximately) in the morning and leave Campus II at 6:30pm / 7:25pm in the afternoon. Bus tickets cost €1.60 if bought directly from the bus

driver; however, rechargeable tickets can be purchased in advance and “charged” with as many trips as desired, starting at 3 trips (€2.20 + €0.50 for the rechargeable ticket) and up to a maximum of 11 trips (6.40€ + €0.50 for the rechargeable ticket).

Taxi services are available near Coimbra’s Train Stations, the main bus terminal and most tourist points. It is also possible to call for a taxi (for an extra fee of €0.80) on (+351) 239499090; the fare from almost every hotel in Coimbra to the Colloquium site is around €5/€6.

Alternatively, there will be a shuttle bus (identified as “XIII ICA BUS”) available for participants travelling to/from the Colloquium. This bus will be free of charge for participants wearing their name badge (except for Monday, August 13<sup>th</sup> morning, when no badge will be needed). This bus will also be available for transport to the welcome reception and Colloquium dinner. Information on the timetable and stops for this shuttle bus will be available at the Colloquium website (<http://icszcoimbra.com/>).

### **Things to remember**

Most banks are open from 8.30am to 3pm, Monday to Friday.

Most shops are open from 9am to 1pm and 3pm to 7pm (working days). On Saturdays most shops close at 1pm, even though there are some open in the afternoon. Shopping Centers are open from 10am to 11pm or midnight, every day of the week.

Most pharmacies are open from 9am to 7pm and close at lunch time (from 1 to 3 pm). Every day, a pharmacy is placed “on call”, meaning it will be available after all others close and until they open. Usually, two more pharmacies are pointed as “back-up” pharmacies. The list of “on call” and “back-up” pharmacies is posted on the window of every pharmacy.

Museums are open from 10am to 12.30pm and from 2pm to 5pm (closed on Mondays).

Post offices are open Monday to Friday from 8.30am to 6pm.

## - Committees -

### Scientific Committee

Paulo Sousa (Chair)	Portugal
Matty Berg (Vice-chair)	The Netherlands
Dalila Costa	Portugal
Dick Roelofs	The Netherlands
Douglas Zeppelini	Brazil
Klaus Sautter	Brazil
Louis Deharveng	France
Luis Mendes	Portugal
Natalia Kuznetsova	Russia
Nobuhiro Kaneko	Japan
Pedro Martins	Portugal
Rafael Jordana	Spain
Wanda Weiner	Poland

### Local Organizing Committee

José Paulo Sousa (Chair)	University of Coimbra, Portugal
Matty Berg (Vice-chair)	Vrije Universiteit Amsterdam, The Netherlands
Alberto Ferreira	University of Coimbra, Portugal
António Alves da Silva	University of Coimbra, Portugal
Carla Pereira	University of Coimbra, Portugal
Dalila Costa	University of Coimbra, Portugal
Henrique Pereira	University of Coimbra, Portugal
Joana Alves	University of Coimbra, Portugal
Osmar Klauberg Filho	University of Santa Catarina, Brazil
Pedro Martins	University of Coimbra, Portugal
Sara Mendes	University of Coimbra, Portugal
Sónia Chelinho	University of Coimbra, Portugal
Tiago Natal-da-Luz	University of Coimbra, Portugal

PhD and MSc students



## - Scientific and Social Programs -

### MONDAY, August 13<sup>th</sup>

08:30h - 09:30h	<b>Registration</b>	
09:30h - 10:00h	<b>Opening ceremony</b>	
	<b>Biogeography and Mapping Session</b> Chairman: Louis Deharveng, Wanda Weiner.	
10:00h - 10:40h	<i>Updating taxonomic biogeography in the light of new methods: Examples from the Collembola</i> PETER SHAW, CHRISTIANA FARIA, BRENT EMERSON.	MO_BM_KN1
10:40h - 11:00h	<i>Effects of Pleistocene glaciations on diversity and distribution of Collembola in the Polish Sudetes and Carpathians</i> DARIUSZ SKARZYNSKI, ADRIAN SMOLIS, MICHAL FURGOL, MARTA KONIKIEWICZ.	MO_BM_O1
11:00h - 11:30h	<b>Coffee break + Posters</b>	
11:30h - 11:50h	<i>Biogeography of Caputaurinae (Collembola: Neanuridae) in Northeast Asia</i> WU DONGHUI, SUN XIN.	MO_BM_O2
11:50h - 12:10h	<i>Species assembly and biogeography of Protura in Japan</i> NOBUHIRO KANEKO, YUKIO MINAMIYA, OSAMI NAKAMURA.	MO_BM_O3
12:10h - 12:30h	<i>Progress in the knowledge of Onychiuridae diversity of China</i> SUN XIN, WU DONGHUI, LOUIS DEHARVENG.	MO_BM_O4
12:30h - 12:50	<i>Collembola from a Nicaraguan farming landscape</i> JOSÉ PALACIOS-VARGAS, BLANCA MEJIA-RECAMIER, PILAR ANDRES.	MO_BM_O5
12:50h - 13:10	<i>Are 100 soil samples enough? Estimation the unknown species richness of a site</i> PASCAL QUERNER, ALEXANDER BRUCKNER, EDITH JUCEVICA.	MO_BM_O6
13:10h - 14:00h	<b>Lunch</b>	
	<b>Taxonomy Session</b> Chairman: Luis Mendes, Rafael Jordana.	
14:00h - 14:40h	<i>Phylogeny and taxonomy of Collembola</i> CYRILLE D'HAESE, CLÉMENT SCHNEIDER.	MO_TX_KN1
14:40h - 15:00h	<i>New data on the Thysanurans preserved in burmese amber (Microcoryphia and Zygentoma: Insecta)</i> LUIS MENDES, WUNDERLICH J.	MO_TX_O1
15:00h - 15:20h	<i>Integrative species delimitation in Machilis jumping bristletails</i> THOMAS DEJACO, WOLFGANG ARTHOFER, H. DAVID SHEETS, KARL MODER, BARBARA THALER-KNOFLACH, ERHARD CHRISTIAN, LUÍS MENDES, BIRGIT C. SCHLICK-STEINER, FLORIAN M. STEINER.	MO_TX_O2

15:20h - 15:40h	<i>"Bizarre silverfishes": current insights into the anatomy and systematics of the Maindroniidae (Zygentoma)</i> MARKUS KOCH.	MO_TX_O3
15:40h - 16:10h	<b>Coffee break + Posters</b>	
16:10h - 16:30h	<i>Proturan diversity and morphological variability in two regions of northeastern Asia</i> JULIA SHRUBOVYCH.	MO_TX_O4
16:30h - 16:50h	<i>DNA Sequences, Morphology and Species Delimitation in Puerto Rican Salina</i> FELIPE SOTO-ADAMES.	MO_TX_O5
16:50h - 17:10h	<i>Color pattern and molecular variation provide evidence for cryptic species in North American Entomobrya</i> ARON KATZ, FELIPE SOTO-ADAMES.	MO_TX_O6
17:10h - 18:00h	<b>Posters Session - Biogeography and Mapping</b>	
	<i>Some biogeographical aspects of Protura distribution in Trancarpathian region (Ukraine)</i> MARIA STERZYNSKA, JULIA SHRUBOVYCH.	MO_BM_P1
	<i>DNA barcoding of mushroom-feeding Collembola in Shiretoko, a world natural heritage site in Japan</i> TAIZO NAKAMORI, MIWA ARAI, TAKASHI F. HARAGUCHI, SAORI FUJII, TAKUO HISHI, AINO T. OTA, NOBUHIRO KANEKO, ERI MIZUMACHI, AKIRA S. MORI.	MO_BM_P2
	<i>Barcoding of collembolan species from the Republic of Moldova</i> GALINA BUSMACHIU, DAVID PORCO, ANNE BEDOS, LOUIS DEHARVENG.	MO_BM_P3
	<i>The Collembola fauna of Irish forests - a comparison of forest type and microhabitat within the forests</i> THOMAS BOLGER, JOAN KENNY.	MO_BM_P4
	<i>Collembola of Pacific littoral of Asia</i> YAN GAO, CHENG-WANG HUANG, MIKHAIL POTAPOV, YUN BU.	MO_BM_P5
17:10h - 18:00h	<b>Poster session - Taxonomy</b>	
	<i>Isotomurus maculatus: DNA evidence solves some of the confusion - and adds additional questions</i> BETTINE JANSEN VAN VUUREN, CHARLENE JANION, DAVID PORCO, ANTONIO CARAPELLI, ANNE BEDOS, LOUIS DEHARVENG.	MO_TX_P1
	<i>Maestrazgo caves (Teruel, Spain) and its collembolan fauna, with description of new species</i> RAFAEL JORDANA, FLOREN FADRIQUE, ENRIQUE BAQUERO.	MO_TX_P2
	<i>Comparing a new Lepismatidae (Zygentoma) from the Baltic amber with living Stylifera gigantea (Escherich, 1905): biogeographic and phylogenetic implications</i> RAFAEL MOLERO, LUIS F. MENDES, MIQUEL GAJU, CARMEN BACH.	MO_TX_P3

*Description of two new fossil Zygentoma from Central American amber deposits (Insecta)* **MO\_TX\_P4**

LUIS F. MENDES, GEORGE POINAR JR..

*Taxonomic status of Orchesella cincta (Linnaeus, 1758) subspecies (Collembola: Entomobryidae) in the light of laboratory hybridization studies* **MO\_TX\_P5**

MICHAL FURGOL .

*Taxonomy and Phylogenetical analysis of Neosminthurus (Collembola: Symphypleona)* **MO\_TX\_P6**

ÁNGELA ARANGO-GALVÁN, JOSÉ PALACIOS-VARGAS.

*Testing the monophyly of cave adapted lineages in North American Pseudosinella using a morphology-based phylogenetic analysis of Nearctic Lepidocyrtini* **MO\_TX\_P7**

FELIPE SOTO-ADAMES.

*Description of a new genus and a new species of Machilidae (Insecta: Microcoryphia)* **MO\_TX\_P8**

CARMEN BACH DE ROCA, PIETRO PAOLO FANCIULLI, FRANCESCO CICONARDI, RAFAEL MOLERO, MIQUEL GAJU.

*The Neanurinae (Poduromorpha: Neanuridae) from Brazil* **MO\_TX\_P9**

GABRIEL QUEIRÓZ, TATIANA SILVEIRA, CLEIDE MENDONÇA.

*Characterization of Poduromorpha (Collembola) fauna from three of the highest mountain plateaus of southeastern Brazil – preliminary results* **MO\_TX\_P10**

GABRIEL QUEIRÓZ, CLEIDE MENDONÇA.

*New species and new records of Isotomidae from southeastern Brazil* **MO\_TX\_P11**

CLEIDE MENDONÇA, GRABRIEL QUEIRÓZ, EDUARDO ABRANTES.

*New data about the distribution and biology of the genus Machiloides silvestri, 1905 (Microcoryphia: Meinertellidae) in the Iberian Peninsula (Western Palearctic)* **MO\_TX\_P12**

MARÍA JOSÉ NOTARIO, RAFAEL MOLERO, CARMEN BACH DE ROCA, MIQUEL GAJU.

18:00h **Leaving to Welcome Reception**

18:30h - 20:30h **Welcome Reception**

**TUESDAY, August 14<sup>th</sup>****Ecology Session**

Chairman: Natalia Kuznetsova, Dick Roelofs.

09:30h - 10:10h	<i>Collembola as model organisms in ecological research; potential for integrative approaches to environmental change effects</i> HANS PETER LEINAAS.	TU_EC_KN1
10:10h - 10:30h	<i>Effects of mixing of broad-leaved trees on the collembolan community in larch plantations of central Japan</i> MOTOHIRO HASEGAWA, AINO OTA, DAISUKE KABEYA, TOHRU OKAMOTO, TOMOYUKI SAITO, YOSHIHIKO NISHIYAMA.	TU_EC_01
10:50h - 11:10h	<i>Turning northern peatlands upside down: disentangling microclimate and substrate quality effects on vertical distribution of Collembola</i> EVELINE KRAB, HILDE OORSPRONG, MATTY BERG, HANS CORNELISSEN.	TU_EC_02
10:30h - 10:50h	<i>Response of soil Collembola to forest management practice and drainage in a fluvial forests</i> MARIA STERZYŃSKA, JULIA SHRUBOVYCH.	TU_EC_03
10:50h - 11:10h	<i>Dispersion behaviour of Myrmecophilic neoasterolepisma spp. (Zygentoma: Lepismatidae) along trails of Messor ants</i> RAFAEL MOLERO, MIQUEL GAJU, CARMEN BACH.	TU_EC_04
11:10h - 11:40h	<b>Coffee break + Posters</b>	
11:40h - 12:00h	<i>Collembolan functional response to landscape intensification</i> FLORENCE DUBS, SANDRINE SALMON, JEAN-FRANÇOIS PONGE.	TU_EC_05
12:00h - 12:20h	<i>Understanding spatiotemporal shifts in Collembola communities: a trait approach</i> MATTY P. BERG.	TU_EC_06
12:20h - 12:40h	<i>Effects of long-term forest fertilization on Collembola abundances and trait composition</i> ANNA MALMSTRÖM, NIKLAS LINDBERG, HELENA BYLUND, MATTY BERG.	TU_EC_07
12:40h - 13:40h	<b>Lunch</b>	
	<b>Ecology Session</b> Chairman: Nobuhiro Kaneko, Pascal Querner.	
13:40h - 14:20h	<i>Adaptation to heat stress: Evolution of thermal tolerance in Collembola</i> VALENTINA ZIZZARI.	TU_EC_KN2
14:20h - 14:40h	<i>Collembola diversity in the fynbos of South Africa: the effects of fire</i> CHARLENE JANION, JAN BENGTSSON, HANS PETTER LEINAAS, LOUIS DEHARVENG, STEVEN CHOWN.	TU_EC_08



*Effects of rhizospheres on the community composition of Collembola in a temperate forest* TU\_EC\_P8

SAORI FUJII, SEIKOH SAITOH, HIROSHI TAKEDA.

*Behavioral observations on Xenylla sp. (Collembola: Hypogastruridae) from laboratory cultures* TU\_EC\_P9

ARTURO GARCÍA-GÓMEZ, JOSÉ G. PALACIOS-VARGAS, GABRIELA CASTAÑO-MENESES.

*Why plant pathologists have to take care of Collembola?* TU\_EC\_P10

MARIA AGNESE SABATINI, SONIA GANASSI, MATTEO MONTANARI, GLORIA INNOCENTI.

*Environmental factors at different spatial scales governing soil fauna community patterns in fragmented forests* TU\_EC\_P11

PEDRO MARTINS DA SILVA, MATTY P. BERG, ARTUR SERRANO, FLORENCE DUBS, JOSÉ PAULO SOUSA.

*Study about attraction factors to Lobella sokamensis (Collembola: Neanurinae) in Wetland environment* TU\_EC\_P12

JING LIU.

17:10h - 17:40h

**Closure of the Meeting**

19:30h

**Leaving to Congress Dinner**

20:30h - 23:00h

**Congress Dinner**

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## - Participants list -

**Alves, Joana**

IMAR - CMA, Dept. Life Sciences, Apartado 3046, University of Coimbra, 3001-401 Coimbra Portugal  
joanasilvaalves@gmail.com

**Alves da Silva, António**

IMAR - CMA, Dept. Life Sciences, Apartado 3046, University of Coimbra, 3001-401 Coimbra Portugal  
antonioalvesdasilva@gmail.com

**Azevedo-Pereira, Henrique**

IMAR - CMA, Dept. Life Sciences, Apartado 3046, University of Coimbra, 3001-401 Coimbra Portugal  
henrique.azevedo.pereira@gmail.com

**Baquero, Enrique**

Departamento de Zoología y Ecología, Universidad de Navarra, c/ Irunlarrea nº 1, 31008-Pamplona (Navarra) Spain  
ebaquero@unav.es

**Bedos, Anne**

UMR7205, CNRS/Muséum national d'Histoire naturelle, CP50, 45 rue Buffon, 75005 Paris France  
bedosanne@yahoo.fr

**Berg, Matty**

VU University Amsterdam, Dept Ecological Science Netherlands  
m.p.berg@vu.nl

**Bolger, Thomas**

University College Dublin Ireland  
tom.bolger@ucd.ie

**César, Ricardo Gonçalves**

Fluminense Federal University Centre for Mineral Technology - CETEM/MCT Rio de Janeiro Brazil  
geo\_ricardocesar@yahoo.com.br

**Chelinho, Sónia**

IMAR - CMA, Dept. Life Sciences, Apartado 3046, University of Coimbra, 3001-401 Coimbra Portugal  
sonia.chelinho@iav.uc.pt

**Chichorro, Filipe**

IMAR - CMA, Dept. Life Sciences, Apartado 3046, University of Coimbra, 3001-401 Coimbra Portugal  
filipechichorro@gmail.com

**Chomel, Mathilde**

Aix-Marseille Univ (France) - UQAT (Québec) France – Canada  
mathilde.chomel@imbe.fr

**Costa, Dalila**

IMAR - CMA, Dept. Life Sciences, Apartado 3046, University of Coimbra, 3001-401 Coimbra Portugal  
dalila.costa@iav.uc.pt

**D'Annibale, Alessandra**

Aarhus University, Department of Agroecology, Denmark  
Alessandra.DAnnibale@agrsci.dk

**Deharveng, Louis**

Origine, Structure et Evolution de la Biodiversité, MNHN Paris France  
dehar.louis@wanadoo.fr

**Dejaco, Thomas**

Institute of Ecology, University of Innsbruck, Technikerstrasse 25, 6020 Innsbruck Austria  
thomas.dejaco@student.uibk.ac.at

**D'Haese, Cyrille**

UMR7205 CNRS, Departement Systematique & Evolution, Museum National d'Histoire Naturelle, Paris France  
dhaese@mnhn.fr

**Dubs, Florence**

UMR Bioemco - IRD - 32, Av. H Varagnat - 93143 Bondy France  
florence.dubs@ird.fr

**Ferreira, Alberto**

IMAR - CMA, Dept. Life Sciences, Apartado 3046, University of Coimbra, 3001-401 Coimbra Portugal  
ajf@zoo.uc.pt

**Filser, Juliane**

University of Bremen, UFT, Department of Ecology Germany  
filser@uni-bremen.de

**Fujii, Saori**

Graduate School of Science and Engineering, Doshisha University Japan  
sfujiii@gmail.com

**Furgol, Michal**

Department of Evolutionary Biology and Ecology,  
Wrocław University, Przybyszewskiego 63/77  
Wrocław  
Poland  
orchesel@biol.uni.wroc.pl

**Hasegawa, Motohiro**

Forestry and Forest Products Research Institute  
Japan  
motohiro@ffpri.affrc.go.jp

**Heiniger, Charlène**

UMR Bioemco  
France  
charlene.heiniger@ird.fr

**Janion, Charlene**

Centre for Invasion Biology, Stellenbosch University  
South Africa  
cjanion@sun.ac.za

**Jansen van Vuuren, Bettine**

Department of Zoology, University of Johannesburg  
South Africa  
bettinevv@uj.ac.za

**Joimel, Sophie**

Laboratoire Sols et Environnement, Université de  
Lorraine, INRA UMR 1120, Vandoeuvre  
France  
sophie.joimel@ensaia.inpl-nancy.fr

**Jordana, Rafael**

University of Navarra  
Spain  
rjordana@unav.es

**Kaneko, Nobuhiro**

Soil Ecology Research Group, Yokohama National  
University  
Japan  
kanekono@ynu.ac.jp

**Katz, Aron**

Illinois Natural History Survey, University of Illinois  
USA  
aron.d.katz@gmail.com

**Klauberger Filho, Osmar**

Centro de Ciências Agroveterinárias  
Santa Catarina State University  
Lages-SC  
Brazil  
klauberger65@gmail.com

**Koch, Markus**

Biocentre Grindel and Zoological Museum, University  
of Hamburg,  
Germany  
markus\_koch@uni-hamburg.de

**Krab, Eva**

VU University Amsterdam  
The Netherlands  
e.j.krab@vu.nl

**Kuznetsova, Nataliya**

Moscow Pedagogical State University  
Russia  
mpnk@yandex.ru

**Leinaas, Hans Petter**

Department of Biology, University of Oslo  
Norway  
h.p.leinaas@bio.uio.no

**Malmström, Anna**

Department of Ecology, Swedish University of  
Agricultural Sciences  
Sweden  
anna.malmstrom@slu.se

**Martins da Silva, Pedro**

IMAR - CMA, Dept. Life Sciences, Apartado 3046,  
University of Coimbra, 3001-401 Coimbra  
Portugal  
pgpmartins@yahoo.co.uk

**Mendes, Luis F**

IICT, J.B.T. Zoologia, Lisboa,  
Portugal  
luis.mendes@iict.pt

**Mendes, Sara**

IMAR - CMA, Dept. Life Sciences, Apartado 3046,  
University of Coimbra, 3001-401 Coimbra  
Portugal  
sara.mendes@gmail.com

**Menezes-Oliveira, Vanessa**

Cesam & Department of Biology,  
University of Aveiro  
Portugal  
vanessa.menezes@ua.pt

**Molero, Rafael**

Departamento de Zoología, Universidad de Córdoba,  
Córdoba  
Spain  
ba1mobar@uco.es

**Nakamori, Taizo**

Yokohama National University  
Japan  
taizo@ynu.ac.jp

**Natal da Luz, Tiago**

IMAR - CMA, Dept. Life Sciences, Apartado 3046,  
University of Coimbra, 3001-401 Coimbra  
Portugal  
tiagonluz@iav.uc.pt



**Niemeyer, Julia**

Universidade Federal da Bahia, Rua Barão do  
Geremoabo, s/n - Instituto de Biologia - Lab. do  
Marenba, Ondina, 40170-290 - Salvador, BA  
Brazil  
juliacarina@yahoo.com.br

**Palacios-Vargas, José G**

Lab. Ecología y Sistemática de Microartrópodos, Fac.  
Ciencias, UNAM  
Mexico  
troglolaphysa@hotmail.com

**Pereira, Carla**

IMAR - CMA, Dept. Life Sciences, Apartado 3046,  
University of Coimbra, 3001-401 Coimbra  
Portugal  
carlasofiaropereira@gmail.com

**Potapov, Mikhail**

Moscow State Pedagogical University, Moscow  
Russia  
mpnk@yandex.ru

**Queiroz, Gabriel**

Departamento de Entomologia, Museu  
Nacional/UFRJ, Rio de Janeiro-RJ  
Brasil  
gabrielcq@mn.ufrj.br

**Querner, Pascal**

University of Natural Resources and Life Sciences,  
Institute of Zoology  
Austria  
pascal.querer@boku.ac.at

**Renaud, Jean Mathieu**

IMAR - CMA, Dept. Life Sciences, Apartado 3046,  
University of Coimbra, 3001-401 Coimbra  
Portugal  
jeanmathieubr@gmail.com

**Roelofs, Dick**

VU University, Institute of Ecological  
Science/Netherlands  
dick.roelofs@vu.nl

**Sabatini, Maria Agnese**

Dipartimento di Biologia, Via Campi 213/D, Università  
di Modena e Reggio Emilia  
Italy  
sabatini@unimore.it

**Sautter, Klaus Dieter**

Programa de Pós-Graduação em Gestão Ambiental;  
Universidade Positivo  
Brazil  
ksautter@up.com.br

**Sañudo, Diana María Castillo**

IMAR - CMA, Dept. Life Sciences, Apartado  
3046, University of Coimbra, 3001-401  
Coimbra  
Portugal  
dianamariacastillo@gmail.com

**Sengupta, Sagnik**

Department of Biology, University of Oslo  
Norway  
sagnik.sengupta@bio.uio.no

**Shaw, Peter**

University of Roehampton  
UK  
p.shaw@roehampton.ac.uk

**Shrubovych, Julia**

Institute of Systematics and Evolution of Animals PAS  
Ślaskowska 17, PL 31-016, Krakow  
Poland  
shrubovych@gmail.com

**Skarzynski, Dariusz**

Department of Evolutionary Biology and Ecology  
Wroclaw  
University Przybyszewskiego 63/77  
Wroclaw  
Poland  
hypogast@biol.uni.wroc.pl

**Soto, Felipe N**

Illinois Natural History Survey, University of Illinois  
Urbana-Champaign, Illinois  
USA  
fsoto@illinois.edu

**Sousa, José Paulo**

IMAR - CMA, Dept. Life Sciences, Apartado 3046,  
University of Coimbra, 3001-401 Coimbra  
Portugal  
jps@zoo.uc.pt

**Sterzynska, Maria**

Museum and Institute of Zoology PAS, 00-679  
Warsaw, Wilcza 64  
Poland  
majka@miiz.waw.pl

**Su, Xin**

Northeast Institute of Geography and Agroecology,  
Chinese Academy of Sciences  
China  
sunxin@neigae.ac.cn

**Vázquez, María Magdalena**

Universidad de Quintana Roo  
México  
marvazqu@uqroo.mx

**Weiner, Wanda Maria**

Polish Academy of Sciences  
Poland  
weiner@isez.pan.krakow.pl

**Wu, Donhui**

Northeast Institute of Geography and Agroecology,  
Chinese Academy of Sciences  
China  
wudonghui@neigae.ac.cn

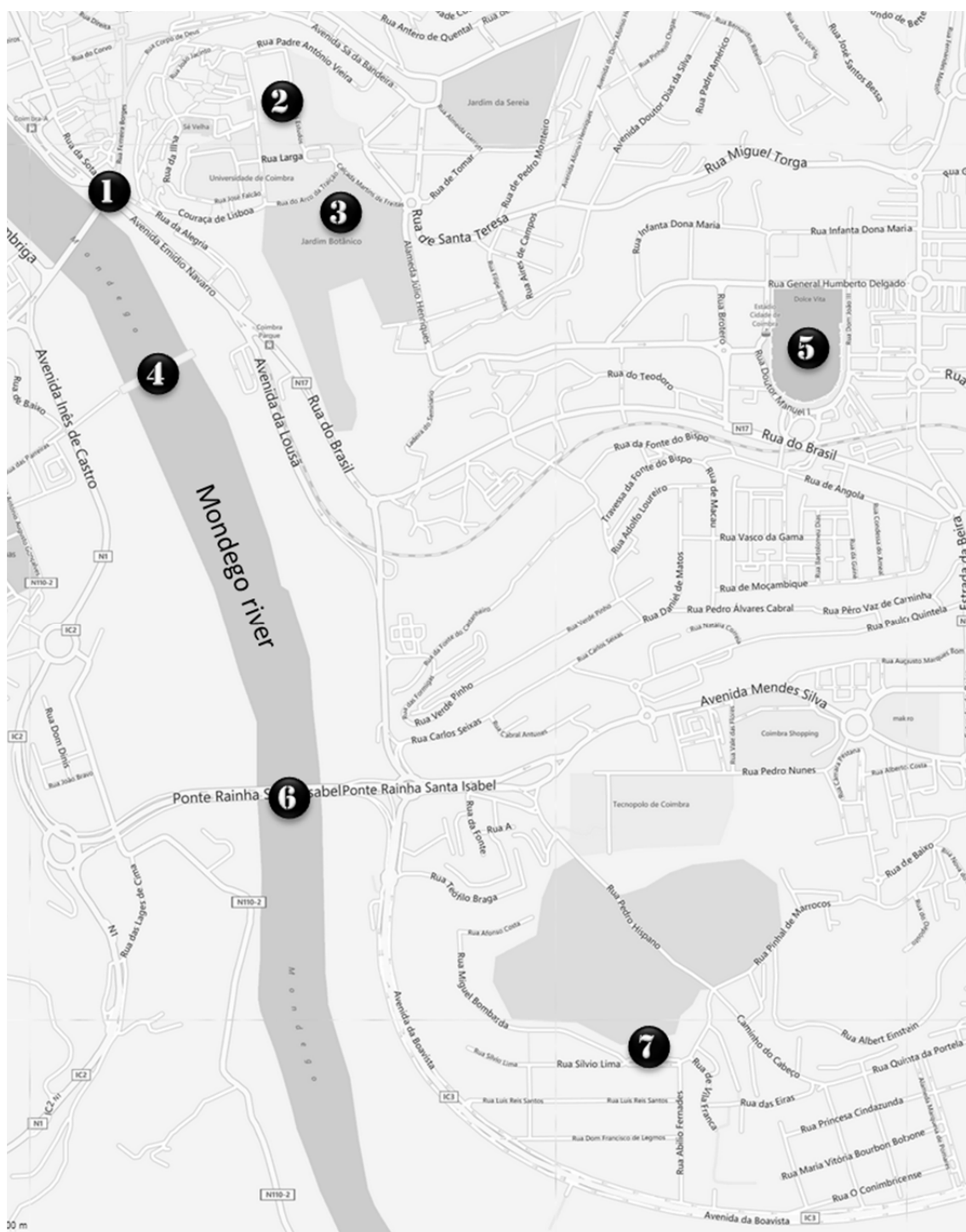
**Yoshida, Tomohiro**

Field Science Center, Faculty of Agriculture, Tokyo  
University of Agriculture and Technology  
Japan  
yoshitom@cc.tuat.ac.jp

**Zizzari, Valentina**

Dept. Animal Ecology, Institute of Ecological Science,  
VU University, Amsterdam  
The Netherlands  
z.v.zizzari@vu.nl

## - Map -



1

PORTAGEM SQUARE

2

UNIVERSITY OF COIMBRA

3

BOTANICAL GARDEN

4

PEDESTRIAN BRIDGE

5

COIMBRA CITY STADIUM

6

RAINHA SANTA BRIDGE

7

FCTUC (CAMPUS II)

## **2 MUSEU DA CIÊNCIA** **Welcome reception**

Laboratório Chimico  
Largo Marquês de Pombal  
3000-272 Coimbra, Portugal

GPS:

40°12'36.28"N

8°25'24.76"W



## **7 FCTUC (CAMPUS II)** **Colloquium site**

Rua Sílvio Lima  
Pólo II da Universidade de Coimbra  
3030-790 Coimbra, Portugal

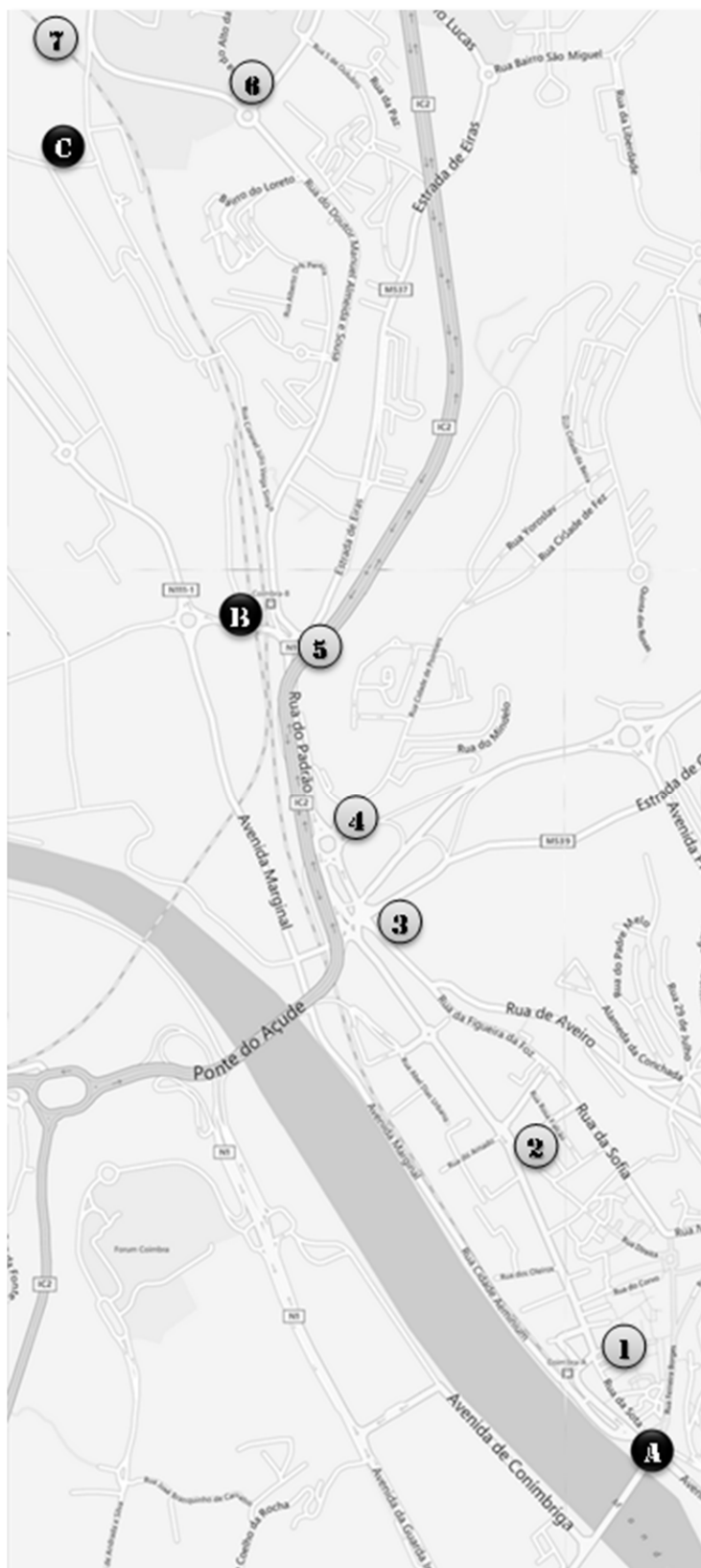
GPS:

40°11'11.47"N

8°24'44.50"W



## GETTING TO THE COLLOQUIUM DINNER: (FROM PORTAGEM SQUARE)



- 1 Leave Portagem Square, NW to Av. Emídio Navarro and after to Av. Fernão de Magalhães; after an elbow curve, keep going straight ahead for 400m.
- 2

Pass the traffic lights and, after 300m, take the second exit at the roundabout.

- 3 After the next traffic lights, follow the direction "Eiras".

- 4 At the roundabout, take the third exit and keep following the direction "Eiras".

- 5 At the roundabout, take the second exit to Rua Manuel de Almeida e Sousa.

- 6 After 1,5km, take the second exit at the roundabout.

- 7 After 600m, turn left at a sharp-elbow curve; cross the railway line – after 150m reach Quinta do Loreto.

**A** PORTAGEM SQUARE

**B** COIMBRA-B TRAIN STATION

**C** QUINTA DO LORETO  
Colloquim dinner



Estrada do Loreto  
3000 COIMBRA

GPS:  
40°14'3.24"N  
8°26'43.20"W

