

# Emiliano Mancini

## PART I - EDUCATION

EM graduated in Biology (2002) and obtained his PhD in Animal Biology (2007) at 'Sapienza' University of Rome by working on ecology and molecular phylogeny of sap-beetles (Coleoptera: Nitidulidae).

- 2007**            **PH. D. IN 'ANIMAL BIOLOGY'** (APRIL 3<sup>RD</sup>, 2007)  
'SAPIENZA', University of Rome (Italy), Dept. of Biology & Biotechnology "C. Darwin"
- Thesis title: *Host-plant relationships and molecular ecology of beetle species of the B. coracinus complex, with development of novel molecular markers to investigate their phylogenetic histories.*
- 2002**            **M. Sc. IN BIOLOGICAL SCIENCES (CUM LAUDE)** (JULY 17<sup>TH</sup>, 2002)  
'SAPIENZA', University of Rome (Italy), Dept. of Biology & Biotechnology "C. Darwin"
- Thesis title: *Molecular ecology and phylogeny in a species-complex of pollen-beetles related to Brassicogethes coracinus (Coleoptera: Nitidulidae).*

## PART II – APPOINTMENTS

From 2007 to 2014 EM has been working as a Post-Doc Fellowship at the Department of Public Health and Infectious Diseases of SAPIENZA, contributing to **medical entomology** researches in the frame of European (EU-FP7) and international (N.I.H.) programs on vector-borne diseases, mostly focused on **population genetics and behavioural ecology of Anopheles mosquitoes** transmitting malaria in Sub-Saharan Africa. In June 2014, EM has been hired by the Department of Sciences of ROMA TRE University as Temporary Researcher (RTD-A) in the frame of the European EU-LIFE MIPP Project aimed to provide **standard methods to monitor saproxylic EU-protected beetles** to prevent biodiversity loss in forest ecosystems. From 2014, he started performing molecular phylogenetics, population genetics and biogeographic studies on **blister-beetles (Coleoptera: Meloidae), longhorn and scarab beetles (Coleoptera: Scarabaeidae and Cerambycidae)**. In August 2018, EM was hired as a Temporary Researcher (RTD-A) at the Department of Biology & Biotechnology "C. Darwin" to pursue studies on insect evolution, phylogeny, biogeography and functional genomics.

### II.A - Academic Appointments (\*contracts under law 240/10; tot. = 9 years)

- 2018-today**    **TEMPORARY RESEARCHER (R.T.D. - tipo A), 'SAPIENZA' UNIVERSITY - DEPT. OF BIOLOGY & BIOTECHNOLOGY C. DARWIN**
- Funded by: MIUR (ITALIAN MINISTRY OF EDUCATION, UNIVERSITY AND RESEARCH) (01-08-2018/31-07-2021\*)
- 2014 - 2017**    **TEMPORARY RESEARCHER (R.T.D. - tipo A), 'ROMA TRE' UNIVERSITY - DEPT. OF SCIENCES**
- Funded by: EU LIFE-MIPP Project "Monitoring Insects with Public Participation" (01-06-2014/31-05-2017\*)
- 2009-2014**    **POST-DOC FELLOWSHIP (Assegnista di ricerca), 'SAPIENZA' UNIVERSITY - DEPT. OF PUBLIC HEALTH AND INFECTIOUS DISEASES**
- Funded by: Young Researcher Grant MIUR-FIRB 2010 (01-08-2012/31-07-2014\*)
  - Funded by: EU-FP7 MALVECBLOK HEALTH-2007-2.3.2-9 (01-08-2011/31-07-2012\*)  
(01-08-2009/31-07-2011)
- 2009**            **SCHOLARSHIP (Borsa di studio), 'SAPIENZA' UNIVERSITY - CENCI-BOLOGNETTI FOUNDATION**
- Funded by: EU-FP7 MALVECBLOK HEALTH-2007-2.3.2-9 (01-01/31-07-2009)
- 2007- 2008**    **POST-DOC FELLOWSHIP (Assegnista di ricerca), UNIVERSITY OF TURIN - DEPT. OF GENETICS, BIOLOGY AND BIOCHEMISTRY, PLACE OF EMPLOYMENT: 'SAPIENZA' UNIVERSITY - DEPT. OF PUBLIC HEALTH AND INFECTIOUS DISEASES**
- Funded by: Fondazione San Paolo - 'Network italiano di ricerche sulla malaria' (01-01-2007/31-12-2008)

## II.B - Other Appointments

In 2006 EM has been working in the R&D Department of the medical diagnostic company Adaltis s.p.a. to develop kits for tumor and allergy diagnosis.

**2006**            **EMPLOYER/TECHNICIAN in the R&D Department** (Tumour and Allergy Diagnostic Kit Development Section) of **ADALTIS S.P.A.** Medical Diagnostic Company, Guidonia Montecelio, Rome (Italy) (01-01/31-12-2006)

## PART III - RESEARCH INTERESTS

Research activities - carried out through field collections, fauna monitoring techniques, morphological/ecological investigations, genetics/genomics methods - deal with various aspects of **evolutionary biology** and are all framed in the field of general and applied entomology.

Current research lines in general entomology aim to:

- 1) outline the **taxonomy, phylogeny and biogeography** of species belonging to various beetle families (Nitidulidae, Hydraenidae, Meloidae and Cerambycidae) and genera of stingless bees (Meliponini) by integrating ecological monitoring, DNA barcoding and conservation genetics,
- 2) unravel the biological factors favouring - and maintaining over time - **phytophagous insects/host plants interactions** by taking into account both their parallel evolution and symbiotic microbiome component,
- 3) understand - through **chemical ecology and functional genomics** - the ecological role and metabolism of cantharidin, a defensive terpene endogenously produced by blister beetles (Meloidae) and owning a great potential in medicine and crop-protection.

Other ongoing research activities pertain to evolutionary parasitology and medical entomology and aim to:

- 1) outline the evolution of genetic traits related to **reproduction and immunity** of *Anopheles* mosquitoes which mostly influence **malaria** transmission in Sub-Saharan Africa,
- 2) detect the genetic/genomic consequences of **hybridization** events occurring in West Africa between the two main malaria mosquito vectors (*A. gambiae* and *A. coluzzii*) on malaria transmission,
- 3) provide novel diagnostic molecular-based tools to taxonomically identify mosquitoes and characterize their **infectivity** potential,
- 4) examine the evolution of emerging **insecticide resistance** mechanisms in mosquitoes' populations (*Anopheles* and *Aedes* mosquitoes) to help coordinating actions aimed to prevent the spread of **vector-borne diseases**.

## PART IV – SCIENTIFIC SKILLS & TRAINING ABROAD

**FIELD WORK**      Planning of invertebrate surveys and field trips mainly in the Mediterranean region (Italy, Spain, Greece, Tunisia, etc.); capture-mark-recapture methods for monitoring saproxylic beetles in protected forest areas (Central Apennines); preparation of entomological collections.

**LABORATORY**     DNA/RNA extraction; amplification and genotyping by PCR; gene expression analysis by RT-qPCR; genotyping *via* High Resolution Melting (HRM) and Taqman assays; cloning and preparation of plasmidic vectors and competent cells; ELISA assays; Western Blot;

Immunofluorescence techniques; DNA/ RNA library preparation for NGS platforms and metabarcoding approaches; GC-MS techniques in chemical/molecular ecology.

**Participation to (most relevant) intensive training abroad to enlarge knowledge on the biology of malaria vectors:**

- **2012** **CAMPUS 'ICPE', MBITA POINT, KENYA**, PROF. D. MASIGA LAB (2 weeks):  
Methods on *Anopheles* rearing and evaluation of SIT efficacy in semi-field settings
- **2012** **'MAX PLANCK INSTITUTE', BERLIN, GERMANY**, PROF. E. LEVASHINA LAB (1 week):  
Methods on *Anopheles* RNA interference and innate immunity investigation
- **2010** **'CNRS', STRASBOURG, FRANCE**, PROF. E. LEVASHINA LAB (1 week):  
Methods to conduct *Anopheles* immunity and embryology studies
- **2009** **'IMPERIAL COLLEGE', LONDON, U.K.**, PROF. F. CATTERUCCIA LAB (2 weeks):  
Methods on *Anopheles* mating behaviour and Real-Time data analysis

**DATA ANALYSIS** Molecular evolution software (Arlequin, Genalex, GenePop, Structure, TESS, PAUP\*, MEGAX, DNAsp, Beast, Gene Runner, TCS, PAML and others); 'R' package; genomic/proteomic database mining (NCBI, PUBMED, SwissModel, IntelPro, ENSEMBLE complete genome database); basics of NGS data analysis software (NEXTGENE, CLC-BIO) and browser (GALAXY).

**Participation to (most relevant) workshops on genetic/genomic data analysis:**

- **2019** **'PROTEIN EVOLUTION'**, a theoretical/practical (3 days) course on protein structure, evolution and interactions - Stazione Zoologica Anton Dohrn (Naples, Italy)
- **2012** **'NEXT GENERATION SEQUENCING - TECHNOLOGIES, APPLICATIONS AND DATA ANALYSIS'** a theoretical/practical (one week) course on genomic data analysis - Avans Hogeschool Breda (held in Breda, The Netherlands)
- **2010** **'WORKSHOP ON MOLECULAR EVOLUTION'** an advanced theoretical/practical (two-weeks) course on data analysis in phylogenetics and molecular evolution - University of Maryland (held in Český Krumlov, Czech Republic)

## **PART V - TEACHING EXPERIENCE**

*I have been teaching theory and practice of General Biology, Zoology, Conservation Biology, Zoogeography, Molecular Ecology and Parasitology to B.Sc., M.Sc. and Ph.D. students in Environmental Sciences, Biology, Biotechnology, Pharmacy and Architecture at 'Sapienza', 'Roma Tre' and 'Tuscia' Universities (Latium, Italy).*

**V.A - Lecturer for University Courses (B.Sc. = Laurea Triennale; M.Sc. = Laurea Magistrale)**

- COURSES HELD AT: *'SAPIENZA' UNIVERSITY - Dept. of Biology & Biotechnology 'C. Darwin'*
  - **'ZOOGEOGRAPHY'** – Theory & Practice (48 h. = 6 CFU) A.Y. 2018/2019 - today  
M.Sc. Degree in 'Sciences of Nature', Faculty of Mathematics, Physics and Natural Sciences
  - **'ZOOLOGY OF HUMAN-MODIFIED ENVIRONMENTS'** - Theory (30 h.) A.Y. 2007/2008  
M.Sc. Degree in 'Landscape Architecture', I Faculty of Architecture (as Contract Professor)
  - **'PRINCIPLES OF BIOLOGY'** - Theory (24 h.) A.Y. 2005/2006 & 2004/2005  
B.Sc. Degree in "Pharmacy", Faculty of Pharmacy (as Contract Professor)

- **'ANIMAL DIVERSITY'** - Practice in laboratories (40 h.) A.Y. 2004/2005  
B.Sc. Degree in "Biology", Faculty of Mathematics, Physics and Natural Sciences
- COURSES HELD AT: *'ROMA TRE' UNIVERSITY - Dept. of Sciences*
  - **'EVOLUTIONARY PARASITOLOGY'** - Theory & Practice (48 h. = 6 CFU) A.Y. 2015/2016  
M.Sc. Degree in 'Biodiversity and Management of Ecosystems'
  - **'CONSERVATION GENETICS'** - module in 'CONSERVATION BIOLOGY' Theory & Practice (8 h. = 1 CFU)  
A.Y. 2015/2016 & 2014/2015  
M.Sc. Degree in 'Biodiversity and Management of Ecosystems'
  - **'ZOOLOGY'** - Practice in laboratories (8 h. = 1 CFU) A.Y. 2015/2016 & 2014/2015  
B.Sc. Degree in 'Biology':
  - **'PRACTICAL COURSE ON MOLECULAR PHYLOGENY & POPULATION GENETICS'** - Theory & Practice (48 h.)  
A.Y. 2015/2016 & 2014/2015  
Doctoral School in 'Molecular, Cellular and Environmental Biology'
- COURSES HELD AT: *'TUSCIA' UNIVERSITY - Dept. of Innovation in Biol., Agri-food & Forest Systems*
  - **'ANIMAL BIOLOGY'** - Theory & Practice (64 h. = 8 CFU) A.Y. 2017/2018  
B.Sc. Degree in 'Biotechnology' (as Contract Professor):

#### **V.B - International teaching**

**A.Y. 2015/2016** Coordinator of the **'GENERAL BIOLOGY II WITH LABORATORIES'** course (Theory & Practice, 48 h. = 6 CFU) offered to U.S. students of 'LORENZO DE MEDICI' AMERICAN INSTITUTE (B.Sc. in 'Biological Sciences') at the Dept. of Sciences of 'ROMA TRE' University.

#### **V.C - Tutorship, internships & student advising**

**2009-today** Tutor of **12 B.Sc.** and **9 M.Sc. Degree theses** and co-tutor of **5 Ph.D. theses** dealing with zoology, taxonomy, evolutionary biology and parasitology.

**2014-2017** Responsible to organize and supervise more than 15 **student internships** in experimental biology (i.e. molecular laboratory and field activities) at 'ROMA TRE' University.

#### **V.D – Outreach/Community Involvement ('Third Mission') actions**

**2019-today** Tutor of LAB2Go Project 'Sapienza' (PCTO: *Percorsi per le Competenze Trasversali e per l'Orientamento* - Italian Ministry of Education, University and Research) to boost biological laboratory practices in high-schools.

**2015-2017** Member of the **'Orientation Welcoming Committee'** of Dept. of Science ('ROMA TRE') aimed at introducing University Science Programs to students from Secondary Schools through the organization of public presentation and events.

**2014-2017** **Citizen Science** programs developed within the EU LIFE-MIPP project, through:

- organization of scientific events (e.g. **"Notte dei Ricercatori"** and other events) and writing of online science contents for citizens.
- 18 divulgation actions in **Public Elementary Schools** about forest biodiversity conservation; - 5 **seminars to the staff of the Italian State Forestry Authority** on monitoring protected insects.

## PART VI - FUNDING INFORMATION

### VI.A - Grants as P.I. or co-P.I.

*Proponent or co-proponent of Projects funded by MIUR, regional grants and in collaboration with Institutes abroad to tackle specific issues emerging from current research lines:*

- submitted** Regione Lazio - "LAZIO INNOVA" Progetti Gruppi di ricerca - *Conoscenza e Cooperazione per un Nuovo Modello di Sviluppo*". 'NoCLOT - NUOVI FARMACI ANTICOAGULANTI DALLA BIODIVERSITÀ DEI MELOIDI', a technology-transfer project to investigate properties of blister-beetle anticoagulant proteins for innovative medical applications (152,320 €)
- 2021-ongoing** MIUR - Progetto di Ateneo cod. RM120172B4EE9890 'AT THE FOREFRONT OF RESEARCH ON PATTERNS OF SPECIES FORMATION: THE CASE OF THE TWO MAJOR INCOMPLETELY-ISOLATED AFRO-TROPICAL MALARIA VECTOR SPECIES AND OF THEIR ADAPTATION TO ANTHROPOGENIC HABITATS' (10,000 €)
- 2020-ongoing** MIUR - Progetto di Ateneo cod. RM11916B7AFE99E 'IMPROVING KNOWLEDGE ON MALARIA VECTOR EPIDEMIOLOGY AFTER LONG LASTING INSECTICIDE NETS (LLINS) DISTRIBUTION IN BURKINA FASO' (10,740 €)
- 2020-ongoing** Universidad Nacional de San Martín (Tarapoto) - Proyecto 'CÓDIGO GENÉTICO DE BARRAS DE ABEJAS SIN AGUIJÓN (APIDAE: MELIPONINI) EN SAN MARTÍN, AMAZONIA PERUANA' (24,000 €)
- 2019-ongoing** Regione Lazio - "LAZIO INNOVA" Progetti Gruppi di ricerca - *Conoscenza e Cooperazione per un Nuovo Modello di Sviluppo*". 'CANBBIO - CANTHARIDIN, FROM BIODIVERSITY TO BIOTECHNOLOGY', a technology-transfer project to boost medical application of cantharidin-related substances produced by blister-beetles (149,826 €)

### VI.B - Grants as Participant

*Participant (and contribution to drafting of applications) to Projects funded by MIUR, European Commission (EU-FP7 and LIFE) or other grant sources dealing with biogeography, conservation and malaria vector control:*

- submitted** MIUR - P.R.I.N., Progetti di Ricerca di Rilevante Interesse Nazionale cod. 2020H7HFST (1,051,823 €), 'SYNERGISTIC PRIORITY SITES FOR THE CONSERVATION OF TERRESTRIAL ANIMAL AND PLANT DIVERSITY TO MEET EUROPEAN AND CBD 2030 GOALS'
- 2017-2018** MIUR - Programma di mobilità "PIETRO DELLA VALLE" tra Italia e Iran (5,544 €), 'ANALISI ZOOGEOGRAFICA DEL POPOLAMENTO ENTOMOLOGICO DELL'IRAN'
- 2012-2017** European Commission - LIFE MIPP cod. NAT/IT/00252 (2,735,000 €), 'MONITORING INSECTS WITH PUBLIC PARTICIPATION'
- 2013-2014** Fondazione Cenci-Bolognetti - Call 2013 (4,000 €), 'POPULATION GENOMICS OF THE MALARIA MOSQUITO *ANOPHELES GAMBIAE*'
- 2012-2013** MIUR - Grandi Attrezzature cod. C26G12XTPP (25,000 €), 'REAL TIME PCR IN PARASSITOLOGIA: DALLA RICERCA DI BASE ALLE APPLICAZIONI DIAGNOSTICHE'
- 2011-2016** European Commission - FP7 HEALTH AVECNET cod. HEALTH.2010.2.3.2-4 (15,402,000 €), 'AFRICAN VECTOR CONTROL: NEW TOOLS'
- 2010 -2013** MIUR - F.I.R.B., Futuro in Ricerca cod. RBFR106NTE (445,000 €), 'RUOLO DELLE BARRIERE RIPRODUTTIVE IN UN CASO EMBLEMATICO DI SPECIAZIONE INCIPIENTE'
- 2009-2011** MIUR - Progetto di Ateneo cod. C26A097THS (15,000 €), 'CARATTERIZZAZIONE BIONOMICA, GENETICA E FILOGENETICA DELLE SPECIE DEL COMPLESSO *ANOPHELES GAMBIAE* (DIPTERA: CULICIDAE), VETTORI AFROTROPICALI DI MALARIA'
- 2009-2014** European Commission - FP7 INFRASTRUCT. INFRAVEC cod. 2008-1-228421 (10,782,700 €), 'RESEARCH CAPACITY FOR THE IMPLEMENTATION OF GENETIC CONTROL OF MOSQUITOES'

- 2009-2012** European Commission - FP7 HEALTH MALVECBLOK Cod. HEALTH-2007-2.3.2-9 (3,008,000 €), 'POPULATION BIOLOGY AND MOLECULAR GENETICS OF VECTORIAL CAPACITY IN *ANOPHELES GAMBIAE*: TARGETING REPRODUCTIVE BEHAVIOUR AND IMMUNITY FOR TRANSMISSION-REFRACTORY INTERVENTIONS'
- 2006-2008** N.I.H., National Institute of Health - Grant 2006 Cod. AI42121 (273,165 \$), 'CHARACTERIZATION OF TRANSPOSABLE ELEMENTS IN *A. GAMBIAE*'
- 2006-2009** MIUR - Progetto di Ateneo cod. C26A06EAWS (10,000 €), 'BIOGEOGRAFIA MOLECOLARE DELLE AREE AFROMEDITERRANEE E DEL VICINO ORIENTE'

## PART VII - CONFERENCE ACTIVITY

### VII.A - Panels Organized as Member of the Organizing/Scientific Committee

- 2020** (23-25 Nov.) 'EVOLMAR' - MARINE EVOLUTION, I CONGRESS (online)
- 2017** (28-31 Aug.) VII CONGRESS OF THE ITALIAN SOCIETY FOR EVOLUTIONARY BIOLOGY, Rome, Italy
- 2014** (24-27 June) XXVIII CONGRESS OF THE ITALIAN SOCIETY OF PARASITOLOGY, Rome, Italy

### VII.B - Attended Conferences (as Discussant) (see section XIV.B for a more comprehensive list)

- 2019** (23-26 Sept.) 80° CONGRESS OF THE ITALIAN ZOOLOGICAL UNION, Rome, Italy
- 2018** (2-6 July) XI EUROPEAN CONGRESS OF ENTOMOLOGY, Naples, Italy
- 2017** (28-31 Aug.) VII CONGRESS OF THE ITALIAN SOCIETY FOR EVOLUTIONARY BIOLOGY, Rome, Italy
- 2016** (05-07 Oct.) II ANNUAL MEETING ON CONSERVATION GENETICS, GÖTTINGEN, Germany
- 2015** (15-18 Sep.) 76<sup>TH</sup> NATIONAL CONFERENCE OF THE "UNIONE ZOOLOGICA ITALIANA, Viterbo, Italy
- 2013** (18-22 Feb.) BYOSYST.EU 2013 - GLOBAL SYSTEMATICS, Wien, Austria
- 2013** (28-31 Aug.) V CONGRESS OF THE ITALIAN SOCIETY FOR EVOLUTIONARY BIOLOGY, Trento, Italy
- 2012** (26-29 June) XXVII CONGRESS OF THE ITALIAN SOCIETY OF PARASITOLOGY, Alghero, Italy
- 2010** (02-04 Sep.) IV CONGRESS OF THE ITALIAN SOCIETY FOR EVOLUTIONARY BIOLOGY, Milan, Italy
- 2010** (03-07 Nov.) 59<sup>TH</sup> ANNUAL MEETING OF THE AM. SOC. OF TROP. MED. & HYGIENE, Atlanta, U.S.A.
- 2009** (19-26 July) IV INTERNATIONAL EMBO MEETING ON MOLECULAR AND POPULATION BIOLOGY OF MOSQUITOES AND OTHER DISEASE VECTORS, Kolymbari, Greece
- 2008** (18-21 June) XXV CONGRESS OF THE ITALIAN SOCIETY OF PARASITOLOGY, Pisa, Italy
- 2008** (05-07 June) I° INCONTRO CONGIUNTO DI BIOSISTEMATICA "GLI STRUMENTI DELLA BIOSISTEMATICA MODERNA: DALLA MORFOLOGIA ALLO STUDIO DEI GENOMI", Milan, Italy
- 2007** (04-11 Nov.) 56<sup>TH</sup> ANNUAL MEETING OF THE AM. SOC. OF TROP. MED. & HYGIENE, Philadelphia, U.S.A.
- 2007** (13-20 July) III INTERNATIONAL EMBO MEETING ON "MOLECULAR AND POPULATION BIOLOGY OF MOSQUITOES AND OTHER DISEASE VECTORS", Kolymbari, Greece

## PART VIII - INVITED TALKS

- 2021** (9<sup>th</sup> June) 'NOVEL APPROACHES TO SYSTEMATICS AND STATE OF THE ART IN ITALY' – *Plenary Lecture* at the Congress of Italian Entomology Society, Turin, Italy
- 2012** (17<sup>th</sup> April) 'POST-MATING IN THE SPECIES OF THE *ANOPHELES GAMBIAE* COMPLEX: A PHYLOGENETIC PERSPECTIVE' - ICIPE, Mbita Point, Kenya
- 2011** (13<sup>th</sup> April) 'AN INTRODUCTION TO MOLECULAR PHYLOGENETICS: THEORY AND PRACTICE' - CNRs (IBMC), Strasbourg, France
- 2011** (11<sup>th</sup> Jan.) 'DETECTING FOOTPRINTS OF ADAPTIVE DIVERGENCE IN GENES REGULATING POST-MATING RESPONSES IN MALARIA VECTORS OF THE *ANOPHELES GAMBIAE* COMPLEX' - Istituto Superiore di Sanità, Rome, Italy
- 2009** (18<sup>th</sup> Jan.) 'FIRST INSIGHTS INTO THE MOLECULAR EVOLUTION OF GENES INVOLVED IN REPRODUCTIVE BEHAVIOR OF *ANOPHELES GAMBIAE*' - CNRs (IBMC), Strasbourg, France
- 2007** (21<sup>th</sup> Sept.) 'MOLECULAR BIOGEOGRAPHY OF MEDITERRANEAN AND SOUTHERN AFRICAN DISJUNCTIONS AS EXEMPLIFIED BY POLLEN BEETLES OF THE *MELIGETHES PLANIUSCULUS* SPECIES-COMPLEX (COLEOPTERA: NITIDULIDAE; MELIGETHINAE)' - 'Roma Tre' University, Rome, Italy

## PART IX - SCIENTIFIC SOCIETY AND EDITORIAL BOARD MEMBERSHIP

- 2017-today** Member of the ITALIAN SOCIETY OF EVOLUTIONARY BIOLOGY (SIBE)  
**2014-today** Member of the ITALIAN SOCIETY OF PARASITOLOGY (SOIPA)  
**2015-today** Member of the Editorial Board of "FRAGMENTA ENTOMOLOGICA" (PagePRESS)

## PART X - SERVICE TO PROFESSION

- 2018-today** Member of the **Departmental Board** ('Giunta di Dipartimento'), Dept. Biology and Biotechnology C. Darwin, 'Sapienza' University of Rome
- 2015-2017** Member of the **Orientation & Welcoming Committee** ('Commissione Orientamento'), Dept. of Science, 'ROMA TRE' University of Rome
- 2007-today** **Peer reviewer** for ISI-indexed international journals, such as Molecular Ecology, Zootaxa, *PLoS One*, Scientific Reports, BMC Evolutionary Biology, Evolutionary Applications, Nature Conservation, Malaria Journal, Biological Journal of the Linnean Society and Journal of Biogeography, etc.; **External referee** for Doctoral Thesis in Animal Biology and Evolution.

## PART XI - SUMMARY OF SCIENTIFIC ACHIEVEMENTS

- **BIBLIOMETRIC INDICES**

	N° DOC.	TOT. CIT.	MEAN CIT.	H-INDEX	10Y. H-INDEX
SCOPUS	54	690	13.0	<b>13</b>	10
ISI WOS	56	701	12.5	<b>13</b>	11
GOOGLE SCHOLAR	58	1215	20.9	<b>17</b>	15

- **IMPACT FACTOR**

**Tot. I.F.** (58 pub.) = 105.762                      Mean I.F. (*per publication*) = 1.823  
**10y. I.F.** (40 pub.) = 80.465                      Mean **10y. I.F.** (*per publication*) = 2.012

- **ROLES IN PUBLICATIONS**

**Whole (18 years):** tot n° pub. = 58 ; as first (n=7), last (n=7) and corresponding (n=14)  
**Last 10 years:** tot n° pub. = 40 ; as first (n=5), last (n=4) and corresponding (n=8)

## PART XII - NATIONAL AND INTERNATIONAL QUALIFICATION FOR ACADEMIC RECRUITMENT

- 2018-2024** MIUR - Ministero Istruzione Università e Ricerca (ITALY), National Scientific Qualification (ASN - **ABILITAZIONE SCIENTIFICA NAZIONALE**, ART. 16 OF THE LAW 30 DEC. 2010, N. 240) to function as **Associate Professor 05/B1** (Zoology/Anthropology) and **07/H3 (Parasitology)** and as **Full Professor for 05/B1** (Zoology/Anthropology)

## PART XIII – LANGUAGES

	READING	SPEAKING	WRITING
ITALIAN	native	native	native
ENGLISH	fluent	fluent	fluent
FRENCH	good	conversation	good
GERMAN	elementary	-	-

## PART XIV - PUBLICATIONS

### XIV.A - Scientific Papers

- **UNDER REVIEW or IN PRESS**

61. Fratini E., Salvemini M., Lombardo F., Muzzi M., Molfini M., Gisondi S., Roma E., D'Ezio V., Persichini T., Gasperi T., Mariottini P., Di Giulio A., Bologna M.A., Cervelli M., **Mancini E.** 2021. Unraveling the role of male gonads and haemolymph in cantharidin-exuding *Lydus trimaculatus* and *Mylabris variabilis* (Coleoptera: Meloidae): a comparative transcriptomics approach. **BMC Genomics** (under review) (IF=3.594)

60. Molfini M., Di Giulio A., Mancini E., Bologna M. 2021. Larval features illuminating adult taxonomy? Case study in the European cardinal beetle species of the genus *Pyrochroa* (Coleoptera: Pyrochroidae: Pyrochroinae). **Zootaxa** (under review) (IF=0.955)

59. Liu M., Huang M., Cline A.R., **Mancini E.**, Scaramuzzi A., Paradisi S., Audisio P., Badano D., Sabatelli S. 2021. Rosaceae, Brassicaceae, and pollen beetles: exploring relationships and evolution in an anthophilous beetle lineage (Nitidulidae, *Meligethes* complex of genera) using an integrative approach. **Frontiers in Zoology** (in press) pre-print doi: 10.21203/rs.3.rs-37852/v3 (IF=2.570)

- **PUBLISHED**

58. Pichler V., **Mancini E.**, Micocci M., Calzetta M., Arnoldi D., Rizzoli A., Lencioni V., Paoli F., Bellini R., Veronesi R., Martini S., Drago A., De Liberato C., Ermenegildi A., Pinto J., della Torre A., Caputo B. 2021. A novel allele specific polymerase chain reaction (AS-PCR) assay to detect the V1016G knockdown resistance mutation confirms its widespread presence in *Aedes albopictus* populations from Italy. **Insects** 12, 79 doi.org/10.3390/insects12010079 (IF=2.220)

57. Muzzi M., Di Giulio A., **Mancini E.**, Fratini E., Cervelli M., Gasperi T., Mariottini P., Persichini T., Bologna M. 2020. The male reproductive accessory glands of the blister beetle *Meloe proscarabaeus* Linnaeus, 1758 (Coleoptera:Meloidae): anatomy and ultrastructure of the cantharidin-storing organs. **Arthropod Structure & Development** 59, 100980 doi.org/10.1016/j.asd.2020.100980 (IF=1.836)

56. Ricciari A., **Mancini E.**, Iannella M. Salvi D., Bologna M. 2020. Phylogenetics and population structure of the steppe species *Hycleus polymorphus* reveals multiple refugia in Mediterranean mountain ranges (Coleoptera, Meloidae) **Biological Journal of the Linnean Society** 130, 507–519 doi.org/10.1093/biolinnean/blaa056 (IF=1.961)

55. Ricciari A., **Mancini E.**, Salvi D., Bologna MA. 2020. Phylogeny, biogeography and systematics of the hyper-diverse blister beetle genus *Hycleus* (Coleoptera: Meloidae). **Molecular Phylogenetics and Evolution** 144, 106706 doi.org/10.1016/j.ympev.2019.106706 (IF= 3.496)

54. Sabatelli S., Liu M., Badano D., **Mancini E.**, Trizzino M., Cline A.R., Cerretti P., Endrestol A., Huang M., Audisio P. 2020. Molecular diversification, host plant use, and phylogeny of pollen beetles of the genus *Thymogethes* (Coleoptera) on their Lamiaceae host plants. **Zoologica Scripta** 49(1):28-46 doi: 10.1111/zsc.12384 (IF=2.603)

53. Gisondi S., Gasperi T., Roma E., Tomai P., Gentili A., Vignoli L., Bologna M.A., **Mancini E.** 2019. Cantharidin content in two Mediterranean species of blister beetles, *Lydus trimaculatus* and *Mylabris variabilis* (Coleoptera: Meloidae). **Entomological Science** doi.10.1111/ens.12364 (IF=1.074)

52. Pombi M., Calzetta M., Guelbeogo W., Manica M., Perugini E., **Mancini E.**, Sagnon N.F., Ranson H., della Torre A. 2018. Unexpectedly low Human Blood Index associated to high *Plasmodium* sporozoite rates in *Anopheles coluzzii* from a LLIN-protected village in Burkina Faso. **Scientific Reports** 8, 12806 doi::10.1038/s41598-018-31117-x (IF=3.998)

51. Liu M., Sabatelli S., **Mancini E.**, Trizzino M., Huang M, Cline A.R., Audisio P. Rediscovery of *Brassicogethes salvan* (Coleoptera: Nitidulidae, Meligethinae) in the southwestern Alps. **Insect Conservation and Diversity** 12, 80-87 doi.org/10.1111/icad.12317 (IF= 2.729)



50. Sabatelli S., **Mancini E.**, Audisio P. 2018. Taxonomical and bionomical notes on the Sicilian endemic water beetle *Ochthebius (Cobalius) biltoni* (Coleoptera: Hydraenidae). *Fragmenta Entomologica* 50, 75-76.
49. Buono V., Galliani G., **Mancini E.**, Davoli F., Mengoni C., Mucci N., Vignoli L. 2018. An improved microsatellite panel to assess genetic variability in the Italian Smooth Newt (*Lissotriton vulgaris meridionalis*). *Journal of Genetics* 97 (2): 569-573 doi.org/10.1007/s12041-018-0934-8 (IF=0.996)
48. Molfini M., Redolfi De Zan L., Campanaro A., Rossi de Gasperis S., Mosconi F., Chiari S., Cini A., Antonini G., Solano E., Audisio P., Roversi P.F., Sabbatini Peverieri G., Carpaneto G.M., Mason F., Bologna M.A., **Mancini E.** 2018. A first assessment of genetic variability in the longhorn beetle *Rosalia alpina* (Coleoptera: Cerambycidae) from the Italian Apennines. *European Zoological Journal* 85 (1): 36-45 doi:10.1080/24750263.2018.1433243 (IF=1.656)
47. **Mancini E.**, Furfaro G., Cervelli M., Di Giulio A., Oliverio M., Salvi D., Mariottini P. 2018. Molecular detection of Bucephalidae and Monorchiiidae trematodes in the European flat oyster *Ostrea edulis*. *European Zoological Journal* 85 (1): 8-16 doi: 10.1080/24750263.2017.1420829 (IF=1.656)
46. Calzetta M., Perugini E., Seixas G., Sousa C.A., Guelbeogo W.M., Sagnon N., della Torre A., Pinto J., Pombi M., **Mancini E.** 2018. A novel nested polymerase chain reaction assay targeting *Plasmodium* mitochondrial DNA in field-collected *Anopheles* mosquitoes. *Medical and Veterinary Entomology* 32 (3): 372-377 doi: 10.1111/mve.12293 (IF=2.178)
45. Furfaro G., Salvi D., **Mancini E.**, Mariottini P. 2018. A multilocus view on Mediterranean aeolid nudibranchs (Mollusca): Systematics and cryptic diversity of Flabellinidae and Piseinotecidae. *Molecular Phylogenetics and Evolution* 118: 13-22 (IF=3.496)
44. Riccieri A., Salvi D., Maura M., Bologna M., **Mancini E.** 2017. Messinian Salinity Crisis and Quaternary glacial events shaped genetic diversification in Siculo-Maghrebian blister beetles (Coleoptera, Meloidae). *Biological Journal of the Linnean Society* 20: 1-14 (IF=1.961)
43. Campanaro A., Redolfi De Zan L., Hardersen S., Antonini G., Chiari S., Cini A., **Mancini E.**, Mosconi F., Rossi de Gasperis S., Solano E., Bologna M.A., Sabbatini Peverieri G. 2017. Guidelines for the monitoring of *Rosalia alpina*. *Nature Conservation* 20: 165-203 (IF=1.580)
42. Mosconi F., Campanaro A., Carpaneto G.M., Chiari S., Hardersen S., **Mancini E.**, Maurizi E., Sabatelli S., Zauli A., Mason F., Audisio P. 2017. Training of a dog for the monitoring of *Osmoderma eremita*. *Nature Conservation* 20: 237-264. (IF=1.580)
41. Redolfi De Zan L., Bardiani M., Antonini G., Campanaro A., Chiari S., **Mancini E.**, Maura M., Sabatelli S., Solano E., Zauli A., Sabbatini Peverieri G., Roversi P.F. 2017. Guidelines for the monitoring of *Cerambyx cerdo*. *Nature Conservation* 20: 129-164 (IF=1.580)
40. Vicente J.L., Clarkson C.S., Caputo B., Gomes B, Pombi M., Sousa C.A., Antao T., Dinis J., Bottà G., **Mancini E.**, Petrarca V., Mead D., Drury E., Stalker J., Miles A., Kwiatkowski D.P., Donnelly M.J., Rodrigues A., della Torre A., Weetman D., Pinto J. 2017. Massive introgression drives species radiation at the range limit of *Anopheles gambiae*. *Scientific Reports* 7: 46451 doi: 10.1038/srep46451 (IF=3.998)
39. Caputo B., Pichler V., **Mancini E.**, Pombi M., Vicente J., Dinis J., Steen K., Petrarca V., Rodrigues A., Pinto J., della Torre A., Weetman D. 2016. The last bastion? X-chromosome genotyping of *Anopheles gambiae* species-pair males from a hybrid zone reveals complex recombination within the major candidate 'genomic island of speciation. *Molecular Ecology* 25: 5719-5731, doi: 10.1111/mec.13840 (IF=5.163)
38. Rossi de Gasperis S., Carpaneto G. M., Nigro G., Antonini G., Chiari S., Cini A., **Mancini E.**, Mason F., Mosconi F., Redolfi De Zan L., Roversi P.F., Sabbatini Peverieri G., Solano E., Campanaro A. 2016. Computer-aided photographic identification of *Rosalia alpina* (Coleoptera: Cerambycidae) applied to a mark-recapture study. *Insect Conservation and Diversity* 10 (1):54-63, doi: 10.1111/icad.12199 (IF=2.729)
37. Clayhills T., Audisio P., Cline A.R., **Mancini E.**, Trizzino M., Sabatelli S. 2016. Unraveling cryptic species diversity in an aposematic sap beetle genus (Coleoptera: Nitidulidae: Cryptarchinae) from Northern Europe. *Insect Systematics & Evolution* 47 (2): 131-148, doi: 10.1163/1876312X-47022137. (IF=1.667)

36. Zauli A., Carpaneto G.M., Chiari S., **Mancini E.**, Nyabuga F.N., Redolfi de Zan L., Romiti F., Sabbani S., Audisio P., Hedenstrom E., Bologna M.A., Svensson G. 2016. Assessing the taxonomic status of *Osmoderma cristinae* (Coleoptera: Scarabaeidae), endemic to Sicily, by genetic, morphological and pheromonal analyses. **Journal of Zoological Systematics and Evolutionary Research** 54 (3): 206-214, doi: 10.1111/jzs.12127. (IF=2.159).
35. **Mancini E.**, De Biase A., Cline A.R., Antonini G., Trizzino M., Clayhills T., Sabatelli S., Cerretti P., Audisio P. 2016. Morphological, genetic and host-plant diversification in pollen beetles of the *Brassicogethes coracinus* group (Coleoptera: Nitidulidae: Meligethinae). **Rendiconti Fis. Acc. Lincei** 27 (2): 321-339, doi: 10.1007/s12210-015-0482-6. (IF=1.603)
34. **Mancini E.**, Spinaci M.I., Gordicho V., Caputo B., Pombi M., Vicente J.L., Dinis J., Rodrigues A., Petrarca V., Weetman D., Pinto J., della Torre A. 2015. Adaptive potential of hybridization among malaria vectors: introgression at the immune locus *TEP1* between *Anopheles coluzzii* and *A. gambiae* in 'Far West' Africa. **PLoS ONE** 10 (6): e0127804 (IF=2.740).
33. Mason F., Roversi P.F., Audisio P., Bologna M.A., Carpaneto G.M., Antonini G., **Mancini E.**, Sabbatini Peverieri G., Mosconi F., Solano E., Maurizi E., Maura M., Chiari S., Sabatelli S., Bardiani M., Toni I., Redolfi De Zan L., Rossi De Gasperis S., Tini M., Cini A., Zauli A., Nigro G., Bottacci A., Handersen S., Campanaro A. 2015. Monitoring Insects with Public Participation (MIPP; EU-LIFE project 11 NAT/IT/00252): overview on a citizen science initiative and a monitoring programme (Insecta: Coleoptera; Lepidoptera; Orthoptera). **Fragmenta entomologica** 47(1): 51-52. (IF=N/A)
32. Santolamazza F., Caputo B., Nwakanma D.C., Fanello C., Petrarca V., Conway D.J., Weetman D., Pinto J., **Mancini E.\***, della Torre A. 2015. Remarkable diversity of intron-1 of the para voltage-gated sodium channel gene in an *Anopheles gambiae/A. coluzzii* hybrid zone. **Malaria Journal** 14:9 doi:10.1186/s12936-014-0522-1 (IF=2.631) \* **corresponding author**
31. Audisio P., Scaramozzino P., Sabatelli S., **Mancini E.**, Cline A.R. 2015. *Carpophilus zeaphilus*, a new sap beetle species acclimatized in Italy (Coleoptera: Nitidulidae). **Fragmenta entomologica** 47(1), 33-35. (IF=N/A)
30. Audisio P., Cline A.R., Trizzino M., **Mancini E.**, Antonini G., Sabatelli S., Cerretti P. 2015. Revision of the African pollen beetle genera *Tarchonanthogethes* and *Xenostromylogethes*, with insect-host plant relationships, identification key, and cladistic analysis of the *Anthystrix* genus-complex (Coleoptera: Nitidulidae: Meligethinae). **Zootaxa** 3920 (1): 101-152 (IF=0.955)
29. Audisio P., Cline A., Solano E., **Mancini E.**, Lamanna F., Antonini G., Trizzino M., 2014. A peculiar new genus and species of pollen-beetle (Coleoptera, Nitidulidae) from eastern Africa, with a molecular phylogeny of related Meligethinae. **Systematics and Biodiversity** 12 (1): 77-91 (IF=1.953)
28. Solano E., **Mancini E.**, Ciucci P., Mason F., Audisio P., Antonini G. 2013. The EU protected taxon *Morimus funereus* Mulsant, 1862 (Coleoptera: Cerambycidae) and its Western Palaearctic allies: systematics and conservation outcomes. **Conservation Genetics** 10.1007/s10592-013-0461-3 (IF=1.917)
27. Avgin S.S., Magri D., Antonini G., **Mancini E.**, Jansson N., Lasoń A., Cline A.R., Audisio P. 2012. Review of the cedar and oak forest-associated *Eपुरaea latipes* species group (Coleoptera: Nitidulidae, Eपुरaeinae), with description of a new species from southern Turkey. **Entomologica Fennica** 23: 49-62 (IF=0.372)
26. De Biase A., Antonini G., **Mancini E.**, Trizzino M., Cline A., Audisio P. 2012. Discordant patterns in the genetic, ecological and morphological diversification of a recently radiated phytophagous beetle clade (Coleoptera: Nitidulidae: Meligethinae). **Rendiconti Fis. Acc. Lincei** 23: 207–215 (IF=1.603)
25. **Mancini E.**, Baldini F., Tammaro F., Calzetta M., Serrao A., Phillip G., Morlais I., Masiga D., Sharakhov I.V., Rogers D.W., Catteruccia F., della Torre A. 2011. Molecular characterization and evolution of a gene family encoding male-specific reproductive proteins in the African malaria vector *Anopheles gambiae*. **BMC Evolutionary Biology** 11: 292 (IF=3.058)
24. Trizzino M., Audisio P., Antonini G., **Mancini E.**, Ribeira I. 2011. Molecular phylogeny and diversification of the "Haenydra" lineage (Hydraenidae, genus *Hydraena*), a north-Mediterranean endemic-rich group of rheophilic Coleoptera. **Molecular Phylogenetics and Evolution** 61: 772-783 (IF=3.496)

23. Santolamazza F., Caputo B., Calzetta M., Vicente J.L., **Mancini E.**, Petrarca V., Pinto J., della Torre A. 2011. Comparative analyses reveal discrepancies among results of commonly used methods for *Anopheles gambiae* molecular forms identification. *Malaria Journal* 10: 215 (IF=2.631)
22. Audisio P., Jelinek J., Cline A.R., **Mancini E.**, Trizzino M., Cerretti P., Antonini G. 2011. Description and taxonomic position of a new genus and species of southern African pollen beetle (Coleoptera: Nitidulidae: Meligethinae). *Zootaxa* 2927: 49-56 (IF=0.955)
21. Audisio P., Cline A.R., **Mancini E.**, Trizzino M., Lamanna F., Antonini G. 2011. A new species of southern African pollen beetle and discussion of the taxonomic position of *Jelinekigethes* Audisio & Cline, 2009 (Coleoptera: Nitidulidae: Meligethinae). *Zootaxa* 2909: 47-56. (IF=0.955)
20. Audisio P., Cline A.R., **Mancini E.**, Trizzino M., Avgin S.S., De Biase A. 2011. Four new Palaearctic *Brassicogethes* (Coleoptera, Nitidulidae, Meligethinae), and phylogenetic inference on the *B. coracinus* group. *Rendiconti Fis. Acc. Lincei*, 22: 235-268 (IF=1.603)
19. **Mancini E.**, Tammaro F., Baldini F., Via A., Raimondo D., George P., Audisio P., I. Sharakhov I., Tramontano A., Catteruccia F., della Torre A. 2011. Molecular evolution of a cluster of serine proteases expressed in the *Anopheles gambiae* female reproductive tract. *BMC Evolutionary Biology* 11(1): 72 (IF=3.058)
18. Caputo B., Santolamazza F., Vicente J.L., Nwakanma D.C., Palsson K., Jaenson T., White B., **Mancini E.**, Petrarca V., Conway D.J., Besansky N., Pinto J., della Torre A. 2011. The "Far-West" of *Anopheles gambiae* molecular forms. *PLoS ONE* 6(2): e16415 (IF=2.740).
17. Audisio P., Trizzino M., De Biase A., Rossetti G., **Mancini E.**, Antonini G. 2009. Molecular and morphological evidence of a new sibling species of *Calobius* (Coleoptera: Hydraenidae) of the *C. quadricollis* complex from peninsular Italy. *Italian Journal of Zoology* 77(1): 29-37 (IF=1.656)
16. Audisio P., Cline A.R., De Biase A., Antonini G., **Mancini E.**, Trizzino M, Costantini L., Strika S., Lamanna F., Cerretti P. 2009. Preliminary re-examination of genus-level taxonomy of the pollen beetle subfamily Meligethinae (Coleoptera: Nitidulidae). *Acta Entomologica Musei Nationalis Pragae* 49(2): 341–504. (IF=0.623)
15. Antonini G., Audisio P., **Mancini E.**, De Biase A., Tronci C., Rossetti G., Trizzino M. 2009 Molecular phylogeography of two Italian sibling species of *Calobius* (Coleoptera, Hydraenidae, Ochthebiinae) inhabiting Mediterranean marine rock-pool ecosystems. *Marine Biology* 157(2): 371-381 (IF=2.050)
14. Audisio, P., De Biase A., Trizzino, M., **Mancini, E.**, Antonini, G. 2009. A new species of *Meligethes* (Coleoptera: Nitidulidae: Meligethinae) of the *M. lugubris* complex from Sardinia. In: Cerretti, P., Mason, F., Minelli, A., Nardi, G. & Whitmore, D. (Eds), Research on the Terrestrial Arthropods of Sardinia (Italy). *Zootaxa* 2318: 386–393 (IF=0.955)
13. Audisio, P., Cline, A.R., Lamanna, F., Trizzino, M., Antonini, G., **Mancini, E.**, De Biase A. 2009. Revision of the Southern African pollen beetle genus *Anthystrix* (Coleoptera: Nitidulidae: Meligethinae). *Annals of the Entomological Society of America*, 102(6): 998-1012 (IF=1.510)
12. Audisio, P., Trizzino, M., De Biase, A., **Mancini, E.**, Antonini, G. 2009. A new species of *Hydraena* (Coleoptera: Hydraenidae: *Haenydra* lineage) of the *H. evanescens* complex from Sardinia. In: Cerretti, P., Mason, F., Minelli, A., Nardi, G. & Whitmore, D. (Eds), Research on the Terrestrial Arthropods of Sardinia (Italy). *Zootaxa* 2318: 281–289 (IF=0.955)
11. Trizzino M., Audisio P., Antonini G., De Biase A., **Mancini E.** 2009. Comparative analysis of sequences and secondary structures of the rRNA internal transcribed spacer 2 (ITS2) in pollen-beetles of the subfamily Meligethinae (Coleoptera, Nitidulidae): potential use of slippage-derived sequences in molecular systematics. *Molecular Phylogenetics and Evolution* 51: 215-226 (IF=3.496).
10. Audisio P., Carpaneto G.M., Coletti G., **Mancini E.**, Trizzino M., Antonini G., De Biase A. 2008. Data on molecular taxonomy and genetic diversification of the European Hermit beetles, a species-complex of endangered insects

(Coleoptera: Scarabaeidae, Cetoniinae, *Osmoderma*). *Journal of Zoological Systematics and Evolutionary Research* 47(1): 88–95 (IF=2.159)

9. Audisio P., Kirk-Spriggs A.H., Cline A.R., Trizzino M., Antonini G., **Mancini E.**, De Biase A. 2008. A new genus of pollen-beetle from South Africa (Coleoptera: Nitidulidae), with discussion of the generic classification of the subfamily Meligethinae. *Insect Systematics & Evolution* 39 (4): 419-430. (IF=1.194)

8. Audisio P., De Biase A., Kirk Spriggs A.H., Cline A.R., Trizzino M., Antonini G., **Mancini E.** 2008. Molecular biogeography of Mediterranean and southern African disjunctions as exemplified by pollen beetles of the *Meligethes planiusculus* species complex (Coleoptera: Nitidulidae; Meligethinae). *Biogeographia* XXIX: 45-63. (IF=N/A)

7. Santolamazza F.\*, **Mancini E.\***, Simard F., Qi Y., Tu Z., della Torre A. 2008. Insertion polymorphisms of *SINE200* retrotransposons within speciation islands of *Anopheles gambiae* molecular forms. *Malaria Journal* 7 (1): 163 (IF=2.631)  
**\*equal contributors**

6. **Mancini E.**, De Biase A., Mariottini P., Bellini A. and Audisio P. 2008. Structure and evolution of the mitochondrial control region of the pollen beetle *Meligethes thalassophilus* (Coleoptera: Nitidulidae). *Genome* 51: 196-207, doi:10.1139/G07-116. (IF=2.037).

5. Audisio P., Brustel H., Carpaneto G.M., Coletti G., **Mancini E.**, Piattella E., Trizzino M., Dutto M., Antonini G., De Biase A. 2007. Updating the taxonomy and distribution of the european *Osmoderma*, and strategies for their conservation (Coleoptera, Scarabaeidae, Cetoniinae). *Fragmenta entomologica* 39 (2): 273-290. (IF=N/A)

4. Audisio P., **Mancini E.**, De Biase A. 2006. A new species of the pollen-beetle genus *Meligethes* (Coleoptera: Nitidulidae) of the *M. aeneus* group from Greece, with review of the *M. subaeneus* complex. *Zootaxa* 1275: 43-60. (IF=0.955)

3. Audisio P., De Biase A., Antonini G., **Mancini E.** 2005. Two new *Meligethes* of the *M. coracinus* complex from southern Europe (Coleoptera, Nitidulidae). *Fragmenta Entomologica* 37(1): 65-89. (IF=N/A)

2. Audisio P., De Biase A., Antonini G., **Mancini E.**, Ozbek H., Gultekin L. 2005. Redescription and natural history of *Meligethes longulus* Schilsky, 1894, and provisional revision of the *M. coracinus* species complex (Coleoptera, Nitidulidae, Meligethinae). *Italian Journal of Zoology* 72: 73-85. (IF=1.656)

1. De Biase A., Antonini G., **Mancini E.**, Audisio P. 2003. Molecular taxonomy of two sympatric sibling species of the pollen-beetle genus *Meligethes* (Coleoptera, Nitidulidae). *Zootaxa*, 190: 1-16 (IF=0.955).

#### **XIV.B - Proceedings of National and International Conferences**

\* = participation as Discussant

36. Riccieri A., **Mancini E.**, Salvi D., Bologna M.A. Biogeographic history of the genus *Hycleus* inferred from molecular data. In: *Proceedings of the 41<sup>th</sup> Congress of the Società Italiana di Biogeografia, 22-23 November 2019, Roma, Italy (pg. 4) (oral)*.

35. **Mancini E.**, Muzzi M., Di Giulio A., Fratini E., Cervelli M., Mariottini P., Lombardo F., Persichini T., Gisondi S., Gasperi T., Bologna M.A. Cantharidin in blister beetles: from biodiversity to biotechnology. In: *Proceedings of the 80th National Conference of the Unione Zoologica Italiana, 23-26 September 2019, Roma, Italy (pg. 68) (poster)*.

34. Riccieri A., **Mancini E.**, Salvi D., Bologna M.A. Biogeography of *Hycleus* (Coleoptera: Meloidae): spatial and temporal diversification of a hyper-diverse genus. In: *Proceedings of the 80th National Conference of the Unione Zoologica Italiana, 23-26 September 2019, Roma, Italy (pg. 84) (oral)*.

33. Gisondi S., Gasperi T., Roma E., Tomai P., Vignoli L., Bologna M., **Mancini E.** Enlarging knowledge on cantharidin in blister beetles (Coleoptera: Meloidae). *XI European Congress of Entomology, 2-6 July 2018, Naples, Italy (poster)*

32. Riccieri A., **Mancini E.**, Bologna M.A. A multilocus approach to explore the phylogeny of a mega-diverse taxon: the case of *Hycleus* (Coleoptera, Meloidae). *XI European Congress of Entomology, 2-6 July 2018, Naples, Italy (oral)*

31. Riccieri A., **Mancini E.**, Bologna M.A. Exploring the phylogeny of a megadiverse taxon: the case of *Hycleus* (Coleoptera, Meloidae). 7° Congresso della Società Italiana di Biologia Evoluzionistica, 28-31 August 2017, Rome, Italy (Pg 36) (poster).
30. Furfaro G., **Mancini E.**, Salvi D., Mariottini P. Unraveling the evolutionary history of Mediterranean Flabellinidae and Piseinotecidae species (Heterobranchia, Gastropoda). 7° Congresso della Società Italiana di Biologia Evoluzionistica, 28-31 August 2017, Rome, Italy (Pg 22) (oral).
29. Pombi M., Calzetta M., Guelbeogo W.M., Manica M., Perugini E., **Mancini E.**, Sagnon N., Ranson H., della Torre A. Entomological survey in a LLIN-protected village of Burkina Faso shows unexpectedly low human blood index associated to high *Plasmodium* sporozoite rates in the malaria vector *Anopheles coluzzii*. 4<sup>th</sup> PAMCA annual congress, 16-18 October 2017, Ouagadougou, Burkina Faso. (oral)
28. Molfini M., Rossi de Gasperis S., Redolfi De Zan L., Campanaro A., Mosconi F., Chiari S., Cini A., Antonini G., Solano E., Nigro G., Andersen S., Roversi P.F., Sabbatini Peverieri G., Mason F., Bologna M.A., **Mancini E.\*** 2016. Genetic variability and conservation of longhorn beetle *Rosalia alpina* in Italy in the frame of EU-LIFE MIPP Project. 2<sup>nd</sup> Annual Meeting in Conservation Genetics - From Research to Applications, 5-7 October 2016, Göttingen, Germany (oral).
27. Bologna M.A., Davies S., **Mancini E.**, Stellati L., Pitzalis M. Molecular phylogenetic studies on Lyttini (Coleoptera, Meloidae). In: *Atti del XXV Congresso Nazionale Italiano di Entomologia, 20-24 June 2016, Padua, Italy (pg. 45)* (oral).
26. Mosconi F., Audisio P., Campanaro A., Antonini G., Chiari S., Hardersen S., **Mancini E.**, Mason F., Roversi, P. F., Sabbatini Peverieri G., Sabatelli S., Zauli A., Maurizi E. 2016. The use of a sniffer dog to monitor the endangered saproxylic beetle *Osmoderma eremita* (Scopoli, 1763). 9<sup>th</sup> edition of the symposium on the conservation of saproxylic beetles, 22-24 April 2016, Genk, Belgium (oral).
25. Rossi de Gasperis S., Chiari S., Redolfi De Zan L., Antonini G., Carpaneto G.M, Cini A., **Mancini E.**, Mason F., Mosconi F., Nigro G., Roversi P.F., Sabbatini Peverieri G., Solano E., Campanaro A. 2016. Assessing reliable and minimal-invasive methods for the monitoring of the longhorn beetle *Rosalia alpina* and implications for forest management. 9<sup>th</sup> edition of the symposium on the conservation of saproxylic beetles, 22-24 April 2016, Genk, Belgium (oral).
24. Maurizi E., Campanaro A., Cini A., Maura M., Redolfi de Zan L., Zapponi I., Antonini G., Bardiani M., Chiari S., Handersen S., **Mancini E.**, Mosconi F., Audisio P., Bologna M., Bottacci A., Carpaneto G., Marco P., Roversi P., Sabbatini G., Mason F. 2015. Monitoring Insects and Public Involvement: the challenge of the life project MIPP. *EEF/SitEEcolgyat the Interface, 21-25 September 2015, Rome, Italy.* (oral).
23. Furfaro G., **Mancini E.**, Salvi D., Carmona L., Cervera J.L. Mariottini P. 2015. Molecular phylogeny of the Mediterranean Flabellinidae (Heterobranchia, Nudibranchia, Aeolidida): preliminary results based on mitochondrial and nuclear markers. 5<sup>th</sup> International Workshop on Opisthobranchs, 13–15 July 2015, Porto, Portugal. (poster)
22. Riccieri A., Maura M., Salvi D., Bologna M.A., **Mancini E.** Investigating the Sicilian-Maghrebian biogeographic pattern in blister beetles (Coleoptera, Meloidae). In: *Proceedings of the 76th National Conference of the Unione Zoologica Italiana, 15-18 September 2015, Viterbo, Italy (pg. 110)* (poster).
21. **Mancini E.\***, Caputo B., Pombi M., Santolamazza F., Vicente J.L., Petrarca V., Pinto J., della Torre A. Insights into the hybridization occurring between the two molecular forms of the malaria mosquito *Anopheles gambiae*s (pres. orale). *ByoSyst.EU 2013 Global Systematics 18-22 February 2013, In: Abstract Volume, A. Kroh, B. Berning, E. Haring, M. Harzhauser, H. Sattmann, J. Walochnik, D. Zimmermann & M. Zuschin (Eds.), NOBIS Austria Wien* (oral).
20. **Mancini E.**, Spinaci M.I., Caputo B., Pichler V., Vicente J.L., Rodrigues A., Pombi M., Petrarca V., Pinto J., della Torre A. 2013. Allelic variation at the immunity gene TEP1 in an area of hybridization between the malaria mosquitoes *Anopheles gambiae* and *An. coluzzii*. 5<sup>th</sup> Congress of ITALIAN SOCIETY FOR EVOLUTIONARY BIOLOGY (SIBE), 28-31 August 2013, Trento, Italy (poster).
19. Antonini G., Audisio P., Mason F., **Mancini E.**, Solano E. 2012. An overview of three case studies: when molecular systematics can be useful for conservation purposes of saproxylic beetles. 7<sup>th</sup> Symposium and Workshop on the Conservation of Saproxylic Beetles, 11-14 May 2012, Granada, Spain (oral).

18. Santolamazza F., **Mancini E.**, Caputo B., Nwakanma D.C., Conway D.J., Pinto J., della Torre A. 2012. New insights on an area of secondary contact between *Anopheles gambiae* M and S forms from polymorphism analysis of Intron-1 of the voltage-gated sodium channel gene. *American Society of Tropical Medicine and Hygiene, 61th Annual Meeting, 11–15 November 2012, In: Supplement to the American Journal of Tropical Medicine and Hygiene, Atlanta, Georgia, U.S.A., n° 205, 87: 61 (poster).* (IF=2.453)
17. Weetman D., Caputo B., Vicente J.L., Pombi M., Rodrigues A., **Mancini E.**, Maslen G., MacInnis B., Kwiatkowski D., della Torre A., Pinto J., Donnelly M.J. 2012. Genomes in flux: 'real-time' dynamics of incipient speciation in *Anopheles gambiae*. *American Society of Tropical Medicine and Hygiene, 61th Annual Meeting, 11–15 November 2012, In: Supplement to the American Journal of Tropical Medicine and Hygiene, Atlanta, Georgia, U.S.A., n° 999, 87: 304 (oral).* (IF=2.453)
16. Caputo B., Weetman D., **Mancini E.**, Pombi M., Vicente J.L., Rodrigues A., Donnelly M.J., Pinto J., della Torre A. 2012. Evidence of recombination in the X-chromosome centromeric region in *Anopheles gambiae* molecular forms from an area of putative secondary contact. *American Society of Tropical Medicine and Hygiene, 61th Annual Meeting, 11–15 November 2012, In: Supplement to the American Journal of Tropical Medicine and Hygiene, Atlanta, Georgia, U.S.A., n° 998, 87: 304 (oral).* (IF=2.453)
15. **Mancini E.\*** 2012. Dissecting the genetic basis of differentiation and speciation in the *Anopheles gambiae* complex. *Atti del XXVII Congresso Nazionale della Società Italiana di Parassitologia, 26–29 June 2012, Alghero, Italy, p. 220 (oral).*
14. **Mancini E.\***, Tammaro F., Baldini F., Serrao A., Rogers D.W., Sharakhov I., Catteruccia F., della Torre A. 2010. Adaptive evolution of male accessory gland proteins involved in post-mating reproductive mechanisms of the african malaria mosquito *Anopheles gambiae*. *IV Congresso Nazionale della Società Italiana di Biologia Evoluzionistica (SIBE), 2–4 September 2010. Milan, Italy (poster).*
13. **Mancini E.\***, Tammaro F., Baldini F., David D.W., Via A., Raimondo D., George P., Sharakhov I., Tramontano A., Catteruccia F., della Torre A. 2010. Molecular evolution of genes involved in post-mating reproductive mechanisms of the malaria mosquito *Anopheles gambiae*. *American Society of Tropical Medicine and Hygiene, 59th Annual Meeting, 3–7 November 2010, In: Supplement to the American Journal of Tropical Medicine and Hygiene, 83: 5 Atlanta, Georgia, U.S.A., n° 1182, p. 351 (oral).* (IF=2.453)
12. **Mancini E.\***, Tammaro F., Catteruccia F., della Torre A. 2009. Molecular evolution of two accessory gland proteins in *Anopheles gambiae*. *Fourth International EMBO Meeting on "Molecular and Population Biology of Mosquitoes and Other Disease Vectors", 19–26 July 2009, Kolymbari, Crete, Greece (oral).*
11. Rogers D.W., **Mancini E.**, Whitten M.M., Baldini F., Thailayil J., della Torre A., Levashina L., Catteruccia F. 2008. Molecular bases of post-mating behaviour in *Anopheles gambiae*. *American Society of Tropical Medicine and Hygiene, 57th Annual Meeting, 7–11 December 2008, In: Supplement to the American Journal of Tropical Medicine and Hygiene, 79: 6 New Orleans, L.A., U.S.A., n° 1069, p. 314 (oral).* (IF=2.453)
10. della Torre A., Santolamazza F., Caputo B., **Mancini E.**, Palsson K., Nwakanama D., Jawara M., Conway D., Tu Z., Petrarca V., Pinto J., 2008. High hybridization rate between *Anopheles gambiae* molecular forms at the western extreme of their range highlights possible gene-flow in the X-chromosome "speciation island". *American Society of Tropical Medicine and Hygiene, 57th Annual Meeting, 7–11 December 2008, In: Supplement to the American Journal of Tropical Medicine and Hygiene, 79: 6 New Orleans, L.A., U.S.A., n° 1168, p. 343 (oral).* (IF=2.453)
9. Santolamazza F., Pinto J., **Mancini E.**, Caputo B., Pombi M., Simard F., Caccone A., Tu Z., Petrarca V., della Torre A. 2008. Analysis of genetic diversity within *Anopheles gambiae* s.s. M-form. *Atti del XXV Congresso Nazionale della Società Italiana di Parassitologia, Pisa, Italy, 18–21 June 2008, Vol. 50, Suppl. 1, p. 102 (poster).*
8. **Mancini E.\***, Santolamazza F., Tu J., Qi Y., Simard F., della Torre A. 2008. The analysis of *SINE200* transposable elements in *Anopheles gambiae* provides a new approach to study the genetic diversity between M and S molecular forms and a novel tool for their identification. *Atti del XXV Congresso Nazionale della Società Italiana di Parassitologia, Pisa, 18–21 June 2008, Vol 50, Suppl. 1, p. 247. (poster).*
7. **Mancini E.\***, Santolamazza F., della Torre A., Tu Z., 2008. Gli elementi trasponibili *SINE200* nel vettore della malaria *Anopheles gambiae*: dinamiche evolutive ed utilizzo in biosistemica. *I° Incontro Congiunto di Biosistemica. "Gli*

strumenti della Biosistemica moderna: dalla morfologia allo studio dei genomi”, 5-7 June 2008. Università “La Bicocca” di Milano, Milan, Italy (oral).

6. **Mancini E.\***, Santolamazza F., Tu J., della Torre A. 2007. Preliminary data on insertion polymorphism of *SINE200* in *Anopheles gambiae*. *American Society of Tropical Medicine and Hygiene, 56<sup>th</sup> Annual Meeting, 4-11 November 2007, In: Supplement to the American Journal of Tropical Medicine and Hygiene, 77: 5, Philadelphia, Massachusetts U.S.A., n° 871, p. 249 (poster). (IF=2.453)*

5. Antonini G., Audisio P., De Biase A., **Mancini E.**, Rector B.G., Cristofaro M., Biondi M., Korotyaev B.A., Bon M.C., Konstantinov A., and Smith L. 2007. The importance of molecular tools in classical biological control of weeds: two case studies with yellow starthistle candidate biocontrol agents. *Proceedings of the XII International Symposium on Biological Control of Weeds, La Grande Motte (Montpellier), 22-27 April 2007, p. 263-269 (oral).*

4. **Mancini E.\***, Santolamazza F., Tu J., della Torre A. 2007. *SINE200* insertion polymorphism in *Anopheles gambiae*. *Third International EMBO Meeting on “Molecular and Population Biology of Mosquitoes and Other Disease Vectors”, 13-20 July 2007, Kolybari, Crete, Greece (oral).*

3. **Mancini E.\***, De Biase A., Audisio P. 2005. Struttura ed evoluzione della Regione di Controllo del DNA mitocondriale nel genere *Meligethes* (Coleoptera, Nitidulidae). *Atti del 66° Congresso Nazionale dell’Unione Zoologica Italiana, Anno 2005, Università di Roma “La Sapienza”, Rome, Italy, Ed. Belvedere, Latina, p. 386 (oral).*

2. De Biase A., Audisio P., Antonini G., **Mancini E.** 2004. Toward a molecular phylogeny of the *Meligethes coracinus* species complex (Coleoptera, Nitidulidae). *Conferenza sulla Ricerca Scientifica Facoltà di Farmacia: “Dalle molecole agli organismi”. Università di Roma “La Sapienza”, Rome, Italy, 9-10 XII.2004, Riassunti: P1 (poster).*

1. Audisio P., Ballerio A., Carpaneto G.M., Antonini G., **Mancini E.**, Coletti G., Piattella E., De Biase A. 2003. *Osmoderma eremita* s.l. in Europa meridionale: stato delle conoscenze e problemi di conservazione (Coleoptera, Cetoniidae). *Atti del Simposio Internazionale “Legno morto: una chiave per la biodiversità”, 29-31 May 2003, Mantua, Italy, Sherwood 95, Suppl. 2, Mantova, Ed. Mason F., Nardi G. & Tisato M., p. 57-60 (oral).*

Copia del CV conforme a quanto prescritto dall’art. 4 del Codice in materia di protezione dei dati personali e dall’art. 26 del D. Lgs. 14 marzo 2013, n. 33, ai fini della pubblicazione.

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