The Italian Research and Cooperation for a world without malaria

from 2010

CIRM-IMN

Centro Interuniversitario per Ricerca contro la Malaria - Italian Malaria Network

10 Italian Universities + Istituto Superiore Sanità (ISS)

http://www.disfeb.unimi.it/ecm/home/ricerca/centri-di-ricerca
CIRM-IMN

Coordinator
Prof. Donatella Taramelli
Dipartimento di Scienze Farmacologiche e Biomolecolari
Università di Milano

Past- Coordinators
Prof. Paolo Arese
Prof. Andrea Crisanti

Virtual Italian Malaria Research Institute

Visibility Fund raising
Networking & collaboration
Research & Training
18 Groups
100-120 Researchers
>500 Publications
>30 PhD students
Expertises within the CIRM-ISS

Chemistry, medicinal chemistry, phytochemistry

Parasite & vector biology

Host-parasite interactions
Chemistry, Medicinal Chemistry, Phytochemistry

- University of Milan – Sergio Romeo – Anna Sparatore
  - Small molecules-Pf protease inhibitors
  - New aminoquinolines
- University of Bologna – Marco Lombardo
  - small molecules, synthetic endoperoxides derivatives
- University of Siena – Giuseppe Campiani – small molecules, Malaria box optimization-new endoperoxides
- University of Napoli – Caterina Fattorusso
  - marine natural products scaffold and derivatives, quinones
Parasite biology \iffalse \textbullet \fi \quad \text{Host-parasite interactions, clinical trials}

- **University of Torino** – Franco Turrini
  - Host parasite interactions. Drugs MoA-Resistance
- **University of Piemonte Orientale-Novara** – Menico Rizzi
  - Crystallography of parasite proteins
- **University of Milan** – Donatella Taramelli
  - Phenotypic assays for drug screening. Drugs MoA
  - Innate immunity in malaria pathogenesis
- **University of Brescia** – Francesco Castelli
  - Clinical aspects of malaria. MD Training.
- **University of Camerino** – Annette Habluetzel
  - In vivo murine models of transmission.
- **University of Perugia** – Roberta Spaccapelo
  - Models of cerebral malaria pathogenesis; exportome of liver stages parasites, pre-erythrocytic vaccine development, genomic center
- **University of Rome** – David Modiano
  - Genetics and Epidemiology of resistance/susceptibility to malaria; human genetics and malaria transmission.
- **Istituto Superiore Sanità- Rome** – Marta Ponzi, Pietro Alano, Carlo Severini
  - Gametocyte biology – host gametocytes interactions-mechanisms of pathogenesis. Resistance markers
Vector biology and control

- **University of Milan** – Claudio Bandi
  - Symbiotic control of mosquito vectors

- **University of Camerino** – Guido Favia, Irene Ricci
  - Symbiotic control of mosquito vectors, study of vectors microbiota
  - Mosquitoes field studies for metagenomics analysis

- **University of Perugia** – Roberta Spaccapelo.
  - Identification of mosquito sex-specific& fertility genes, to create transgenic sterile mosquitoes, mosquito metagenomic and paratransgenesis.

- **University of Rome**- Alessandra della Torre. Bruno Arcà
  - Malaria vectors bionomics and genomics.
  - Assessment of control measures on vector populations
  - Vector-host parasite interactions
Research and training projects within the IMN

- **Training**
  - Post-doc Fellowships financed by Compagnia San Paolo-Torino
  - UniCAM-PhD Programme on Malaria and Human Development financed by WHO
  - 2014-2018 MAECI- Burkina Faso Italian Cooperation Training Program Fight against malaria in Burkina Faso: Training and research in malariology

- **Funding**
  - 1998-2018 several PRIN National Projects
  - EU-FP-6, FP7, H2020 projects: EviMalAR, BioMal Par, AntiMAL, Blugenics, InfraVec, AvecNet, InterMal Training
  - 2012-2016 Bill & Melinda Gates Foundation. GAM Gametocyte assays for Antitransmission drugs
  - 2016- 2018 Bill & Melinda Gates Foundation 2016 - Target Malaria Program.
  - Marie Curie Action H2020 RISE, CoFund
  - Italy- South Africa MAECI Bilateral project – Novel malaria transmission blocking drugs
IMN Contacts : University and ISS delegates

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