



European focus
on Red Biotechnology
with China



*EFBIC RED promotes and supports exchange visits of **researchers from China to EU**. Below you can find a list of research institutes from Italy and Austria interested in hosting researchers from China, in the field of **Traditional Chinese Medicine (TCM)**. Additional research institutes will be published on the EFBIC RED webpage: <http://www.efbicred.com/>*

| COUNTRY | ORGANISATION NAME | DEPARTMENT | KEY RESEARCH INTERESTS/EXPERTISE | POTENTIAL AREAS FOR COLLABORATIONS WITH RESARCHERS FROM CHINA |
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| ITALY | University of Cagliari | Dip.to di Scienze Botaniche | Biodiversity, Ethnopharmacology, Endemic Flora | Ethopharmacolgy on endemic flora |
| ITALY | University of Cagliari | Dip.to di Scienze Botaniche | Food chemistry, toxic infood and environment | Food - Enviroment |
| ITALY | University of Cagliari | CoSMese - Consorzio Interuniversitario per lo studio dei metaboliti Secondari - | Phytochemistry, isolation of metabolites and farcologycal research | Phytochemistry, Exstaction of metabolites, pharmacological an development research |



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| ITALY | <p>* IDI, ISTITUTO DERMOPATICO DELL'IMMACOLATA, <i>Research & Care Institute (IRCCS)</i></p> <p>* IDI FARMACEUTICI SPA (<i>IDI Spin-off, R&D for pharmaceutical, skin&hair care, and cellular products for skin diseases</i>)</p> | <p>Department of Tissue Engineering and Cutaneous Physiopathology (<i>Research Laboratory and Clinical Unit</i>)</p> | <p>a) Biochemistry - molecular and cellular biology; b) Mechanisms of action - in vitro and <i>in vivo</i> testing of natural and synthetic compounds with antioxidant / antiinflammatory / chelating / antibacterial / antimycotic / antiviral / pro-/anti-apoptotic / anticancer properties; c) Pre-clinical and clinical studies of new dermatological/cosmetic preparations; d) Cellular and tissue products for autologous skin transplantation; e) Cell and tissue banking</p> | <p>* NATURAL MEDICINE * RESEARCH & DEVELOPMENT OF INNOVATIVE PRODUCTS FOR DERMATOLOGY & COSMETOLOGY</p> |
| ITALY | Tor Vergata University of Rome | Department of Internal Medicine, Endocrinology Unit | Acupuncture in male infertility, acupuncture and the metabolic syndrome, acupuncture and endocrine disorders | Acupuncture in male infertility, acupuncture and endocrine disorders, acupuncture and metabolic syndrome |
| ITALY | University of Piemonte Orientale "Amedeo Avogadro" | Dipartimento di Scienze Mediche | immunopharmacology, lung diseases, coronary artery disease, evaluation of the anti-inflammatory properties of Chinese plants derivatives | evaluation of anti-inflammatory properties of Chinese herbal preparations; immunopharmacology, lung diseases, coronary artery diseases |



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| ITALY | University of Milan | Department of Pharmacological Sciences | Neuroprotective agents (e.g., anti-stroke and anti-neurodegenerative agents); neuro-regenerative medicine (e.g., agents implementing endogenous brain repair mechanisms), with special focus on agents acting on brain purinergic systems. | Characterization of the neuroprotective and neuro-regenerative actions of traditional chinese medicines; elucidation of their mechanism of action; definition of the active components of plant extracts for the development of more potent and selective drugs for acute and chronic neurodegenerative diseases. |
| ITALY | University of Milan | Veterinary Science and Technologies for Food Safety | Monogastric and Ruminant Nutrition - Use of plant extracts as alternatives to antibiotics in order to improve food safety for human consumption - Expertise in the field of using alternatives to antibiotics (probiotics, prebiotics, plant extracts etc.) in animal production. If needed we can provide last papers in this topic. At the present a colleague, Prof. Hajiung Zhang, from Feed Research Institute (Chinese Academy of Agricultural Sciences of Beijing) is running research activity in our department. | Exchanging ideas and developing research programs in application of TCM to animal science to improve food safety for human consumption |



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| ITALY | University of Pisa | Experimental Pathology | Experimental diabetology; anti-diabetic plant extracts and phytochemicals | Phytotherapy in diabetes; mechanisms of action of plant extracts used as anti-diabetic remedies in TCM |
| ITALY | CNR Council of National Research | Institute of Biomedicine and Molecular Immunology - IBIM | Biomedicine and Biothechnology | Allergy and Preparation of Vaccine against Allergic Reaction |
| ITALY | University of Camerino | Biology Molecular, Cellular, Animal (M.C.A.) | Medicinal plant drug discovery and characterization ; Traditional medicine for cancer or non-cancer diseases; Cancer chemopreventive agents from medicinal plants; | Biochemistry; Cell Biology; Drugs interactions; Drugs delivery. |
| ITALY | University of Camerino | MEDICINA SPERIMENTALE E SANITÀ PUBBLICA | Anti-malarial medicines from medicinal plants; In vivo animal anti-malarial studies and in vitro cytotoxic activities of medicinal plants | biology, parasitology |
| ITALY | University of Camerino | Chemical Sciences | Quali-quantitative determination of the content of complex mixtures, like food and plants (especially used in traditional medicine) | Analytical Chemistry, Traditional Medicine, Food Chemistry |



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| ITALY | University of Milan | Dept. Of Animal Pathology | Veterinary Parasitology | Traditional chinese medicine in the treatment of parasitic diseases of large and small animals with particular regard to efficacy and food safety |
| ITALY | University of Bari | Department of General and Environmental Physiology | Physiology and Pathophysiology of water transport in brain and muscle. Role of Aquaporins in tumor, angiogenesis and brain edema | Discovery aquaporin inhibitors from traditional chinese medicine plant extracts and for their potential use in the treatment of brain edema, glaucoma and tumor angiogenesis |
| ITALY | UNIVERSITY OF MILAN | DEPT. OF PUBLIC HEALTH, MICROBIOLOGY-VIROLOGY | REASEARCH IN NEW ANTIMALARIAL DRUGS. In vitro ASSAYS ON P. falciparum. | ISOLATION AND CHARACTERIZATION OF NATURAL PRODUCTS FROM TCM FOR POTENTIAL USE AS ANTI-MALARIALS, ANTI-INFECTIVES AND/OR ANTI-ANGIOGENETICS |
| ITALY | UNIVERSITY OF MILAN | DEPT. OF PHARMACOLOGY | STUDY ON EFFICACY OF NATURAL PRODUCTS. | ISOLATION AND CHARACTERIZATION OF NATURAL PRODUCTS FROM TCM FOR POTENTIAL USE AS ANTI-MALARIALS, ANTI-INFECTIVES AND/OR ANTI-ANGIOGENETICS |



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| ITALY | UNIVERSITY OF MILAN | DEPT. OF PHYSIOLOGY AND BIOCHEMISTRY | REASEARCH ON PATHO-PHYSIOLOGY OF RED BLOOD CELLS. | ISOLATION AND CHARACTERIZATION OF NATURAL PRODUCTS FROM TCM FOR POTENTIAL USE AS ANTI- MALARIALS, ANTI- INFECTIVES AND/OR ANTI-ANGIOGENETICS |
| AUSTRIA | Christian Doppler Laboratory of Receptor Biotechnology | | Structure function elucidation of hormonal active compounds from culinary plants, herbs and spices | Pharmacognosy, food technology, TCM, pharmacology, experimental medicine |
| AUSTRIA | University of Natural Resources and Applied Life Science | Department of Biotechnology | Biochemical Engineering with focus on separation engineering, biopharmaceutical technology | Biotechnology, Biochemical Engineering |
| Austria | | Max F. Perutz Labs | Molecular biology of rhinoviruses, foot-and-mouth disease virus | Developing targets for treatment of common cold, foot-and-mouth disease virus |
| Austria | Medical University of Vienna | Center of Physiology, Pathophysiology and Immunology | 1. Immunology research - allergy and cancer research | TCM and age related diseases |



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| | | | 2. Evidence based studies on TCM herbal formulas | TCM herbs for anti-inflammatory research |
| | | | (1) effect of TCM herbal treatment on heart failure and post infarct remodelling | Heart failure diseases research |
| | | | (2) beneficial effect of TCM treatment during chemotherapy for breast cancer and melanoma | Allergy and cancer research |
| | | | (3) effect of TCM treatment in allergic diseases | |
| | | | 3. Postgraduate education courses of TCM | |
| Austria | Medical University of Vienna | Molecular Oncology, Department of Obstetrics and Gynecology | Molecular Oncology | Prognostic markers for endometrial cancer |
| | | | - Diagnostic and prognostic markers | |
| | | | - Predictive markers for therapy response | |



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| | | | - Circulating tumor cells | |
| | | | - Tumor invasion and metastasis | |
| Austria | Medical University of Vienna | University Clinic of Dermatology | Dermatological oncology, immunology and photodermatology | |