A Strategy for Promoting Complementary Alternative Medicine Integration into the European Health Care system as a Regulatory Response to Chronic Illnesses

(PRO_CAM_I)

Cover Page
- Name of the Principal Investigator (PI): Margherita Poto
- Name of the PI’s Host Institution for the project: University of Turin
- Proposal duration in months: 48
Proposal summary

A strategy for an Integrated Medicine Approach in EU

Time Spent: 48 Months (11 MILESTONES)

• RESEARCH CHALLENGE AND OVERARCHING STRATEGY
  The current fragmentation of the European health care systems and the need for integration of Complementary Alternative Medicine (CAM) into conventional medicine (CM) pose a unique challenge. While it requires a serious public health response, it also demands much broader action. All sectors and levels of government and civil society shall be mobilised if the maximisation of value for patients is to be achieved.

  The ground-breaking nature of our research will be to move away from a health care system organised around what physicians do according to the mainstream conventional standards to an integrative healthcare approach between complementary alternative remedies and conventional medicine, promoting patients’ competence and knowledge to help beneficiaries—in collaboration with their health care providers—make more informed treatment decisions based on an understanding of available options, and each patient’s circumstances, beliefs and preferences.

  Making this transformation does not consist of a single step but an overarching strategy aiming at the highest value for patients requires that three different levels of priorities are taken into account: I. International II. European and III. National level.

• SPECIFIC OBJECTIVES OF THE PROJECT, MILESTONES AND OUTCOMES
  In order to facilitate the promotion of the CAM integration into the EU healthcare system, the project team will offer a serious and innovative response, by establishing the Centre for Research on CAM Integration (CER_CAM_I) as a coordinating unity of the Project Milestones and a facilitator of cooperation among the most advanced health care structures in Europe and worldwide.

  The project will be structured in 11 Milestones, from the establishment of the CER_CAM_I to the proposal of a Roadmap as a regulatory tool for the European legislator, based on the open exchange of information and debate around the data collected during the interviews conducted in target systems. The broader participation of stakeholders, such as citizens, patients and providers, will be granted in every Milestone of the project, by organising conferences, workshops, and by involving the interested parties.

Part B1
Section a. Extended synopsis of the scientific proposal

I. Research challenge, main objective and overarching strategy at three levels.
A strategy for an Integrated Medicine Approach in EU

TERMINOLOGY

Complementary alternative medicine (CAM). The terms “complementary medicine” or “alternative medicine” are used interchangeably with traditional medicine in some countries. They refer to a broad set of health care practices that are not part of that country’s own tradition and are not integrated into the dominant health care system.

Traditional Medicine (TM). Traditional medicine is the sum total of the knowledge, skills, and practices based on the theories, beliefs, and experiences indigenous to different cultures, whether explicable or not, used in the maintenance of health as well as in the prevention, diagnosis, improvement or treatment of physical and mental illness. Our focus in this project will be on Traditional Chinese Medicine (TCM).

http://www.who.int/medicines/areas/traditional/definitions/en/

Research challenge

Health care systems in Europe are struggling with rising costs and uneven quality despite a skilled and dedicated workforce of clinicians and practitioners. Countless incremental measures - reducing errors, enforcing guidelines, curbing corruption, making patients more aware “consumers” - have been tried by health care leaders and policy makers but none have had much impact. Today’s fragmented system, in which every local health care provider offers a full range of services, shall be replaced with a system in which integrated therapies, both complementary and conventional, together with the appropriate set of knowledge and information tools for the beneficiaries, are concentrated in health-delivery organisations and in the right locations to deliver high-value care. Expanding the integration of complementary alternative medicine (CAM) and in particular of Traditional Chinese Medicine (TCM) therapies will require developing an evidence base for safety and efficacy, by consolidating data from national and international research and by developing a regulatory framework for an integrative system.

Main objective and overarching strategy

The current fragmentation of the European health care system and the need for integration of CAM into conventional medicine (CM) pose a unique challenge. While it requires a serious public health response, it also demands much broader action. All sectors and levels of government and civil society shall be mobilised if the maximisation of value for patients is to be achieved. The ground-breaking nature of our strategy will be to move away from a supply-driven health care system organised around what physicians do according to the mainstream conventional standards to an integrative healthcare approach between complementary alternative remedies and conventional medicine, promoting patients’ competence and knowledge to help beneficiaries – in collaboration with their health care providers – make more informed treatment decisions based on an understanding of available options, and each patient’s circumstances, beliefs and preferences. In order to facilitate the promotion of the CAM integration into the EU healthcare system, the project team will offer a serious and innovative response, by establishing the Centre for Research on CAM Integration (CER_CAM_I) as a coordinating unity of the most advanced health care structures and integrated best practices.

Overarching strategy at three levels

Making this transformation does not consist of a single step but an overarching strategy aiming at the highest value for patients requires that three different levels of priorities are taken into account: I. International II. European and III. National level.

I. International level. According to the WHO, Conventional and Alternative Medicine (CAM) is found in almost every country in the world and the demand for its services is increasing (Traditional Medicine Strategy 2014-2023). The Strategy also states that CAM of proven quality, safety and efficacy contributes to the goal of ensuring that all people have access to care. Health systems around the world are experiencing increased levels of chronic illness and escalating health care costs. Patients and health providers both are demanding that health care services be revitalised, with a stronger emphasis on individualised person and centred care. This strategy document assesses all the challenges, requiring Member States to determine their own national situations in relation to CAM, and then to develop and enforce policies, regulations and guidelines, by organising their activities in three strategic sectors: 1. Build the knowledge base that allows CAM to be managed actively; 2. Strengthen the quality assurance, safety, proper use of CAM by regulating products, practices and practitioners; 3. Promote universal health coverage by integrating CAM
services into health service delivery and by ensuring that users are able to make informed choices about self-health care.

**II. European level.** As requested by WHO, EUROCAM, an association of European organisations, including patients, doctors, practitioners, calls on the European Commission to encourage Member States to identify strategic directions, to develop strategic actions and to explore the ways in which CAM can contribute to sustainable healthcare systems (CAM 2020). Findings from the CAMbrella project (2012) indicate that CAM provision stems from approximately 160,000 non medical practitioners and 145,000 medical practitioners. Furthermore, a growing body of evidence is showing how CAM can add significant value in a reformed health care system, both for its cost-effectiveness and its efficiency (Baars, 2014, Studer and Busato, 2010; Kooreman and Baar, 2012). The identification and development of strategic actions to improve the life-long health and well-being of all, while maintaining economically sustainable care systems, are considered thematic priorities also in Horizon 2020. The objective is to support the activities based on effective data-sharing with strong international focus, as well as progressive consolidation of decision-making in prevention and treatment, to improve best practices in the health and care sector, and to facilitate an integrated approach in health care.

**III. National level.** China and Switzerland are considered pioneers in developing the strategies of integration addressed by the WHO. In China, since the foundation of the People’s Republic, in 1949, the Chinese leaders have given full support to Traditional Chinese Medicine (TCM), trying to combine it with Western Medicine in order to find an effective (and economical) way to treat PRC’s large population. In Switzerland, in 2009 more than 67% of national voters opted for a new constitutional article on CAM (Art. 118), with the result that certain complementary therapies have been integrated into the basic health insurance scheme available to all Swiss citizens (WHO, 2014). Belgium, The Netherlands and Italy are also listed among the countries where detailed information is available on CAM treatments, legal frameworks, practices, professional organisations, patients associations and reimbursement policies (WHO, 2014).

**2. Single milestones of the overarching strategy: the coordinating unity and the specific objectives**

**The coordinating unity**

The CER_CAM_I will be established as the coordinating unity for all the project activities. The CER_CAM_I will be established at the University of Turin (Host Institution), in cooperation with the Department of Law and the Centre for Acupuncture of the Ospedale Sant’Anna that will both provide an excellent environment for training with its state-of-the-art research facilities, basic science laboratories, engineering technologies, medical support for our interdisciplinary teams’ research, and its prior history in the conduct of CAM-related research.

**Specific objectives**

Single milestones addressing the specific objectives identified at International, European and national level, are required to build up a comprehensive and systematic regulatory framework on the best integrated health care practices in Europe. After the initiation phase (Milestone 1), the project is planned to an appropriate level of detail, where specific activities are connected to specific objectives (Milestone 2 to 11).

<table>
<thead>
<tr>
<th>MILESTONE ONE: KICK-OFF MEETING</th>
</tr>
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<tbody>
<tr>
<td><strong>OBJECTIVES (MONTH 1)</strong></td>
</tr>
<tr>
<td>WHAT</td>
</tr>
<tr>
<td>WHO DO WE NEED</td>
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<tr>
<td>WHO ARE THE BENEFICIARIES</td>
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<td>DELIVERABLE</td>
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<tr>
<th>MILESTONE TWO: ESTABLISHMENT OF THE CENTRE OF RESEARCH ON CAM (CER_CAM_I)</th>
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<tr>
<td><strong>OBJECTIVES (MONTH 2)</strong></td>
</tr>
<tr>
<td>WHAT</td>
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<td>WHY</td>
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<td>WHO DO WE NEED</td>
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<tr>
<th>MILESTONE THREE: WEBSITE DESIGN AND MANAGEMENT</th>
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<tr>
<td><strong>OBJECTIVES (MONTH 2-48)</strong></td>
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<td>WHAT</td>
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<td>WHY</td>
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<td>WHO DO WE NEED</td>
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<td>WHO ARE THE BENEFICIARIES</td>
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<th>MILESTONE FOUR: DATA COLLECTION PLAN</th>
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### OBJECTIVES (MONTH 2)

**WHAT**
Determining the qualitative sample size

**WHY**
To identify scope, target audience, researchers, resourcing

**WHO DO WE NEED**
Project team members; other CER_CAM_I members

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members

**DELIVERABLE**
Progress Report

### MILESTONE FIVE: INTERVIEWS IN ITALY AND IN CHINA

**WHAT**
Building up the knowledge base on TCM best practices in Italy and China. Field study in acupuncture

**WHY**
To map differences and similarities in the target systems

**WHO DO WE NEED**
Target audience

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members; Research audience

**DELIVERABLE**
Bi-annual Progress Report Activity

### OBJECTIVES (MONTH 3-18)

**WHAT**
Building up the knowledge base on TCM best practices in Italy and China. Field study in acupuncture

**WHY**
To map differences and similarities in the target systems

**WHO DO WE NEED**
Target audience

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members; Research audience

**DELIVERABLE**
Bi-annual Progress Report Activity

### OBJECTIVES (MONTH 19)

**WHAT**
Thematic workshop

**WHY**
To stimulate debate and spread information the research group and the public

**WHO DO WE NEED**
Project team members; other CER_CAM_I members, Research audience

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members, Research audience

**DELIVERABLE**
Bi-annual Progress Report Activity

### MILESTONE SIX: THEMATIC WORKSHOP ON CAM IN ITALY AND IN CHINA

**WHAT**
Compilation of a cross-national database

**WHY**
To find common patterns and identify best practices

**WHO DO WE NEED**
External experts (data analysts)

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members, Research audience

**DELIVERABLE**
Bi-annual Progress Report Activity; Evaluation report

### MILESTONE SEVEN: INTERVIEWS IN EU TARGET SYSTEMS AND SWITZERLAND

**WHAT**
Building up the knowledge base on TCM best practices in EU.

**WHY**
To offer a systematic assessment of the current regulatory framework on TCM in EU

**WHO DO WE NEED**
Target audience

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members, Research audience

**DELIVERABLE**
Bi-annual Progress Report Activity

### OBJECTIVES (MONTH 20-35)

**WHAT**
Building up the knowledge base on TCM best practices in EU.

**WHY**
To offer a systematic assessment of the current regulatory framework on TCM in EU

**WHO DO WE NEED**
Target audience

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members, Research audience

**DELIVERABLE**
Bi-annual Progress Report Activity

### MILESTONE EIGHT: CROSS-NATIONAL PANEL DATA BASE

**WHAT**
Compilation of a cross-national database

**WHY**
To find common patterns and identify best practices

**WHO DO WE NEED**
External experts (data analysts)

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members, Research audience

**DELIVERABLE**
Bi-annual Progress Report Activity; Evaluation report

### MILESTONE NINE: MID-TERM CONFERENCE

**WHAT**
Organisation of a mid-term conference

**WHY**
To share and spread information on survey data; to discuss on the required adjustments for legal transplants

**WHO DO WE NEED**
CER_CAM_I Members, Interviewed, scholars

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members; Target audience, stakeholders

**DELIVERABLE**
Progress Report

### OBJECTIVES (MONTH 39-47)

**WHAT**
Roadmap on the integration of TCM therapies into CM in EU

**WHY**
Getting a handbook useful for target audience in EU

**WHO DO WE NEED**
Project Team Members; other CER_CAM_I members

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members

**DELIVERABLE**
Progress Report; Publication of the Roadmap in the CER_CAM_I Digital Library

### MILESTONE TEN: ROADMAP

**WHAT**
Roadmap on the integration of TCM therapies into CM in EU

**WHY**
Getting a handbook useful for target audience in EU

**WHO DO WE NEED**
Project Team Members; other CER_CAM_I members

**WHO ARE THE BENEFICIARIES**
Project team members; other CER_CAM_I members

**DELIVERABLE**
Progress Report; Publication of the Roadmap in the CER_CAM_I Digital Library

### MILESTONE ELEVEN: INTERNATIONAL FINAL CONFERENCE

**WHAT**
Final conference

**WHY**
Introduction of the roadmap to share views and experiences on the key issues

**WHO DO WE NEED**
Project team members, other CER_CAM_I members, target audience

**WHO ARE THE BENEFICIARIES**
Project team members, target audience, public

**DELIVERABLE**
Final report; Conference Proceedings Publication

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The following Gantt chart sums up the Project progress:
3. Methodology: outputs, risk management plan, team members, external contacts

**Outputs**

**Output 1** Launch of the project with a kick-off meeting. Strong international, national and local support for this initiative will help to overcome inertia and establish high standards and mechanisms for performance accountability. Ministry of Health and other sectors and their counterparts at local level will be involved.

**Output 2** A technical Centre of research on CAM Integration (CER_CAM_I) will be established by the P.I. and the team members in collaboration with the University of Turin and the Ospedale Sant’Anna. Based on the P.I. and team experience in similar projects, the CER_CAM_I will be established prior to the first stakeholders’ meetings and prior to the programmed activities, to have the leading role in monitoring and evaluation of the progress of the project.

**Output 3** The final expected output will be a “Roadmap on TCM therapies into conventional medical practice in EU”, as the background for an international conference involving all the Project members, interested stakeholders and public. Conference proceedings will be published by the CER_CAM_I. Further press conferences and advocacy activities will be organised to disseminate the research results.

**Risk management plan**

This general list will be followed by the P.I. as a start-up record of the risks and strategies for controlling them; but further risks and strategies will be identified and evaluated during the development of the project.

<table>
<thead>
<tr>
<th>LIKELIHOOD</th>
<th>CATASTROPHIC</th>
<th>CRITICAL</th>
<th>SIGNIFICANT</th>
<th>MARGINAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very likely</td>
<td>None</td>
<td>R-01/R-09</td>
<td>R-02/R-05</td>
<td>None</td>
</tr>
<tr>
<td>Likely</td>
<td>None</td>
<td>R-03/R-04</td>
<td>R-03/R-06/R-07</td>
<td>R-08</td>
</tr>
<tr>
<td>Unlikely</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Very Unlikely</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

**RISK DETAILS**

<table>
<thead>
<tr>
<th>RISK ID</th>
<th>DESCRIPTION</th>
<th>MITIGATION STRATEGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-01</td>
<td>There are significant difficulties in the identification and involvement of target members to interview (healthcare centres, practitioners, patients). Technical barriers (e.g. bureaucratic burdens and time constraints) might create an obstacle for the prompt and efficient set up of the interviews.</td>
<td>1. Involving our contact experts in the planning phase, brainstorming with them on the best strategies to involve the largest number of target audience.</td>
</tr>
<tr>
<td>R-02</td>
<td>There are significant technical difficulties in this project because legal experts and medical doctors with diversified backgrounds and experiences (CM/TCM) shall work in cooperation</td>
<td>1. Scoping and scheduling the project leaving enough time for training sessions, review, thematic workshops and exchange meetings</td>
</tr>
<tr>
<td>R-03</td>
<td>In the data surveys, we could exhaust our time schedule without producing a significant release. The time schedule of the project is very tight.</td>
<td>1. Producing a working subset early (Milestone 1); 2. Planning extra time for training and communications during the duration of the project.</td>
</tr>
<tr>
<td>R-04</td>
<td>During the interviews, we could face the problem of linguistic barriers and gaps, due to the technicalities of the medical language of TCM.</td>
<td>1. Hiring a Chinese-English healthcare interpreter.</td>
</tr>
<tr>
<td>R-05</td>
<td>The performance of the project will be significantly impacted by the risk of an unsuccessful transplant of the Chinese model into the European system, for the cultural, historical and social differences between the systems.</td>
<td>1. Assessing the factors that have driven the integration between conventional and traditional medicine in China; 2. Organising interdisciplinary workshops and international conferences to discuss on the legal adjustments required for the transplants.</td>
</tr>
</tbody>
</table>
Team members

1. The P.I. will cover Milestones 1-11 working part-time for 48 months (50% of the project activity, more than 50% in a EU Member State). She will be cooperating with two experts in the field of Chinese law and Consumers Protection Law, with an outstanding experience in their research field. Further professional experts will join the team members and will be recruited, either as temporary staff, or as external consultants (outsourcing) in accordance with European and National Laws, as well as with the internal regulations of the Host Institution. We will publish our job announcements on Euraxess platform, in order to find the best talents to recruit: **Expert in Health care systems in EU** (2 positions); **Doctors in Medicine, with clinical experience in TCM and in acupuncture** (1 per target system); **IT Expert** (1 position) + **Web design and Management Company**; **Communication and advocacy expert** (1 position); **Database Analysts** (2 positions); **Chinese-English healthcare Interpreter** (1 position); **Linguist in English** (1 position); **External Evaluator** (1 position)

External contacts

To ensure a balanced representation of researchers with different practices and experiences, interviews will take place in different target systems. During the planning phase (from Milestone 1 onward), further centres will be identified and new contacts will be established. Currently, a first network of centres has already been established, and it comprises:

| Belgium | • Vrije Universiteit Brussel |
| Italy | • Centro Medico dell’Agopuntura, corso Dante 126 Torino, website: http://www.centromedicoagopuntura.it |
| | • Ospedale Sant’Anna, Turin, Centro cefalee Sant’Anna, via Ventimiglia 3 |
| | • Ambulatorio pubblico di Agopuntura dell’Ospedale U. Parini di Aosta |
| | • Centre of Research in Bioclimatology, Biotechnologies and Natural Medicine, State University of Milan, WHO Collaborating Centre for Traditional Medicine |
| The Netherlands | • RIVM, National Institute for Public Health and Environment, Bilthoven, The Netherlands |
| Switzerland | • Hirslanden Medical Group/Ospedale Regionale di Mendrisio Beata Vergine |
| China | • Institute of Acupuncture & Moxibustion, China Academy of Chinese Medical Sciences, Beijing, WHO Collaborating Centre for Traditional Medicine, |
| | • Shanghai University of International Business and Economics |
| | • Zhejiang Chinese Medical University (Hangzhou) |
| | • Heilongjiang University of Chinese Medicine |
| | • Harbin No. 1 Hospital |

Table 5-6
Section b. Curriculum vitae

Family Name, First Name: Poto, Margherita Paola

Date of birth: 6th August 1978

Nationality: Italian

URL for website: http://www.giurisprudenza.unito.it/do/docenti/mpoto

Professional experience in international research groups and technical assistance projects

The Principal Investigator (P.I.) is ideally placed to lead this proposed research project for several reasons. In the past eleven years -nine years after her PhD studies-, she has acquired and improved her leadership skills, working as a project assistant then progressively as a team leader in internationally funded technical assistance projects. She has consolidated her professional experience working with central and local state bodies, governmental administrations, as well as academic institutions and research centres, dealing with governance in sensitive areas (food safety, environmental protection, health, legal aid, public procurement and sustainable development);

- **Legal researcher and coordinator for Italy**, in 2014-2016 within project on *Art. 9 paragraph 3, Aarhus Convention*. Fachgebiet Umweltrecht & Partizipation Department Environmental Law & Public Participation, Unabhängiges Institut für Umweltfragen -UrU- e.V. Independent Institute for Environmental Issues -UrU- Berlin, Germany

- **Principal Investigator of the Italian research group** in 2014-2015, within the project on Participatory rights in the environmental decision making process and the implementation of the *Aarhus Convention: a comparative perspective on the German and the Italian system*, Unito and Friedrich-Alexander-Universität Erlangen-Nürnberg. Fachkonferenzen-Programm "Deutsch-Italienische Dialoge", financed by DAAD (Deutscher Akademischer Austauschdienst- German Academic Exchange Service), Bonn, Germany

- **Legal research assistant** in 2010 on the WP: *Requirements in International Agri-Food Trade*, EU Project NTM, FP7, LEI, Agricultural Economics Research Institute, Public Issues, Wageningen University-LEI, The Netherlands;

- **Research Assistant** in 2011-2012, in drafting *Food Safety handbooks and guidelines* for target transition economies, EDES Program, COLEAPC, Europe-ACP Liaison Committee, Brussels

- **Legal expert** in 2009 in the Project on *International Legal standards in Global Exchange of microbial genomic data to underpin response to health threats* (Gesture), University of Utrecht RIVM, the National Institute for Public Health and Environment, Bilthoven, The Netherlands;

- **Principal Investigator** in 2009 in the *Legal Aid Program* Financed by US Embassy, African Institute for Comparative and International Law, Ruvuma Region, Songea, Tanzania

- **Principal Investigator** in 2004-2005 in the project “*Food safety at European, National and Regional level after the Constitutional reform*” (Ricerca Scientifica Applicata, B.U.R. n. 35 del 28.8.2003, Regione Piemonte FP6-EU), Unito, Italy

She has more than six years’ experience in drafting and facilitating the implementation of legal documents on International and EU standards, with a unique working experience in projects related to the implementation of food and health safety standards in transition countries:

- **Students supervisor and coordinator** in 2015 in the Cooperation Project on “*Diritto all’acqua e fotovoltaico*” (Fundamental right to water and renewable energies) in Tanzania and Kenya, Unicoo, University of Turin, Italy

- **Legal counsel** between 2009-2013, within the project “*EU Export Market Certification of Sierra Leone. Fishery and Marine Products*” Précon Food Management BV, Bunnik the Netherlands; Ministry of Fisheries from Sierra Leone, Freetown

- **Legal counsel and facilitator** in 2011 in the implementation food regulatory standards in the Egyptian Transition Economy, Précon Food Management B.V., Ministry of Agriculture, and USAID, Cairo, Egypt

She has conducted her research studies in the past five years on the relationship between EU standards vis-à-vis third countries, with a special focus on China:

- **Legal researcher and visiting scholar** in 2013-2014, within the Project Marie Curie Irses: *Evaluating Policies for Sustainable Energy Investments: towards an integrated approach on national and international stage* (EPSEI), EU Commission, Unito, Tsinghua University, Beijing

- **Legal researcher and international visiting scholar** in 2011, within the Project on *Food and Traditional Medicine* at the Tsinghua University, Peking University, Beijing, and Renmin University of China (RUC), Department of Public Administration, Beijing, China

Her unique experience in dealing with multi-disciplinary studies and research fields –consolidated after completion of PhD Studies in 2006- has been consolidating in two Post Doc research positions:
Post Doc researcher in Food Law in 2009-2010 and Course coordinator/Lecturer in Comparative Food Law at the Master's Graduate Program (focus on Asia -China, Japan-; Eastern Africa), Wageningen University and Research Center, The Netherlands; Lecturer in Food Law within the Food Law Academy Africa, Training to trainers: representatives of farmers, civil servants, stakeholders in cooperation with Wageningen University and CTA, Freetown and Kenema, Sierra Leone

Post Doc researcher in Comparative Administrative Law, Financial law and global regulatory dynamics, focus on Independent Administrative Regulation on Financial Markets, DAAD Postdoc Scholarship, Host Institution: Max Planck Institute for Comparative and International Law, Heidelberg, Germany.

Qualifications and academic achievements
The P.I. has an excellent academic background, as adjunct professor and senior lecturer with a lecturing experience in multidisciplinary backgrounds (Department of Law, Department of Management, Department of Life Sciences, ITC-ILO, School of Finance and Banking) to a diversified target audience in both national universities (Unito) and international institutions (Wageningen University, ITC-ILO, School of Finance and Banking, Kigali, Rwanda; Food Academy Africa, Freetown, Sierra Leone)

2013 Qualified candidate as Associate Professor in Administrative Law, Abilitazione Scientifica Nazionale. National Scientific Qualification (art.16 of the law 30.12.2010, n.240)

2008-today Assistant Professor in Administrative Law. Main activities: research and lectures in Ethics and Fraud (Ethics and law; Applied ethics to environment/health/food law/public procurement/financial supervision in English 21 hrs); Public Law for Economics (Environmental law; comparative administrative law; in English 42 hrs) at the Department of Management, Unito; Research and lectures in Food Law (International food safety and food security; sustainability, food and environment; Chinese Food Law; (in English 40 hrs), at the Department of Law, Unito; Lectures in Diritto del Lavoro/Labour Law (in Italian 35 hrs) at the Università di Scienze Strategiche, Torino (2013/2014); Lectures in Legislazione alimentare/Food Law (in Italian, 40 hrs), Dipartimento di Scienze Agrarie e Forestali, Grugliascio (2013-today); lectures and students supervision for the Law module at the Master in Public Procurement and Sustainable Development, ITC-ILO (2007-today); School of Finance and Bank, Kigali, Rwanda (in English, 70 hrs), 2012/2013

2002-2008 PhD Student and Post doctoral researcher in Administrative Law (since 2006), Lecturer and research fellow in Administrative Law, Comparative Public Law. Faculty of Law, Unito.

International visiting scholar positions
In the past eleven years, the P.I. has held competitive visiting scholar positions: at the Tsinghua University and Peking University, Beijing, China, at the Renmin University of China (RUC), Department of Public Administration, Beijing, China (Research Project: Food and Traditional Medicine); at the American University, Washington College of Law; at the Hong Kong University; at the Max Planck Institute for International and Comparative Law, Heidelberg; at the British Institute for Comparative and International Law, London.

Education, prizes and scholarships
2002-2006 PhD Studies. Doctorate in Public Law, Dip. Studi Politici e Sociali, University of Pavia
2006-2007 LLM in Public Law, European Public Law Centre, Athens-Legrena, Greece. Diploma (Best paper award)
2002-2003 LLM in Law, Scuola Specializzazione Professioni Legali, Unito (scholarship for merits)
1993-1997 Diploma di Maturità Classica. Liceo Classico Statale V. Alfieri, Torino (final grade: 60/60)

Language skills
The P.I. mothertongue is Italian; her main working language is English (IELTS 2014: oral expression 7.5; listening: 7.5; reading 7). She is fluent in French (DALF, 2004) and has a good knowledge of German (ZMP 2005), Dutch (INBURGERINEXAMEN 2010) and Spanish (DELE 2008). She has knowledge of colloquial Mandarin and Kiswahili.

Maternity leaves and professional career
Since 2007 the P.I. professional performances have significantly increased since she has raised a gifted child as a single mother. The primary need to care for her has completely changed her attitude toward work learning to make best use of time and resources and to develop as a more organised and creative researcher. Her daughter has been raised as a third culture kid and has always followed her mum worldwide. This unique
experience has helped the P.I. to make meaningful work a priority and to set up research objectives that have at the forefront the wellness of children and of future generations. To them, this innovative project is dedicated.

Section c.) Track records

Publications

The P.I. has published more than ten articles in International peer-reviewed scientific journals on the multidisciplinary approaches in environmental, health, food law and financial sectors; she has recently edited the publication of a major co-authored book, as well as two blind peer-reviewed monographs (one in English, one in Italian):

- E. LOHSE, M. POTO, (eds.), Participatory rights in the environmental decision making process, Duncker und Humblot, Berlin, 2015, pp. 1-200 (Leading International peer-reviewed scientific publisher);
- M.POTO, Looking beyond the borders: Integrating best practices in benefit-risk analysis into the field of food and nutrition, in M. J. Tijhuis (ed.), Integrating Benefit-Risk Analysis in Food and Nutrition: learning from other disciplines, Food and Chemicals Toxicology, Elsevier, 2012, pp.78-94 (Leading International peer-reviewed multidisciplinary scientific journal);
- M.POTO, Food and nano-food within the Chinese regulatory system: no need to have overregulation, Less physicality can produce more power, in European Journal Law and Technology, Special Issue on Nanotechnologies, Vol. 2, Issue 3, 2011, pp. 1-16 (Leading International peer-reviewed multidisciplinary scientific journal)
- M.POTO, Financial Supervision in a Comparative Perspective, Intersentia, Antwerp, 2010, pp.1-100 (Leading International peer-reviewed scientific publisher)

Alongside these works, her publications include sixteen refereed international journal articles (with a further one under review), eleven chapters in international edited collections, one special issue of international journals, more than fifty case law comments and notes (focused on public administration’s liability and regulatory issues), ten book reviews, two contributions in co-authored books accepted for publication (The Second Pillar of the Aarhus Convention, in R. Caranta, A. Gerbrandy, B. Mueller, The Making of a New European Legal Culture. The Making of a New European Legal Prevalence of a single model, or cross-fertilisation of national legal traditions? The Aarhus Convention, European Law Publishing, Groningen, forthcoming 2015, pp.1-15); Towards good administration: A Comparative Assessment on Sustainable Energy Investments in Europe and China, in P. Farah, P. Rossi (ed. by), “How to Foster Sustainable Energy Investments and the Protection of the Environment”, forthcoming, 2015, 20 pp.).

She was Managing Editor (Public Administration) for the leading International publishing house De Gruyter
Established since 2003 she has also been Editorial Board Member of the peer-reviewed scientific journals Giurisprudenza Italiana (Wolters Kluwer Italia) and Responsabilità civile e previdenza (Giuffré). Her research is widely cited, and has broad cross-disciplinary impact upon both scholarship and policy-research.

**Invited presentations to peer-reviewed, internationally established conferences and international advanced schools**

Since 2004 the P.I. has been invited as speaker and chair to peer-reviewed Internationally and nationally established conferences (around 20), workshops and roundtables on public law-related topics (In Europe: Italy, The Netherlands, Iceland, Sweden, United Kingdom; in Africa: Tanzania; in Asia: China).

- 27 June 2015 Invited speaker to the Peer-Reviewed Internationally Established Conference WTO and Health: The Law & Policy of Traditional Chinese Medicine, Shanghai University of International Business and Economics and Vrije Universiteit Brussel
- 15 January 2015 Invited Speaker to the International Expert Meeting and Phd Workshop on We the People and the Environment, University of Turin and EPSEI, Topic: Environmental participation in Europe and in China
- 12 December 2014 Invited Presentation to the International Law Advanced School at the Södertörn University of Stockholm, Sweden, Master’s Programme in EU Law. Topic Food Safety in Europe
- 3/5 July 2014 Italian Chair at the International Conference on “Participatory rights in the environmental decision making process and the implementation of the Aarhus Convention: a comparative perspective on the German and the Italian system”. Uni/T/Friedrich-Alexander-Universität Erlangen-Nürnberg. Fachkonferenzen-Programm "Deutsch-Italienische Dialoge" DAAD (Deutscher Akademischer Austauschdienst- German Academic Exchange Service)
- 18 December 2013 Invited speaker to the Peer-reviewed Internationally Established Round Table Conference on Asia-Pacific Food Safety Governance. Center of Cooperative Innovation for Food Safety Governance, UNDP, Renmin University of China, Law School, Beijing. Intervention on “Food Governance in Europe: toward a harmonised system?”
- 30 July 2013 Invited Speaker to the Workshop organised by the Center for Environmental Risk and Damage Assessment, Chinese Academy for Environmental Planning, CERDA-CAEP, Ministry for Environmental Protection, Beijing, China. Intervention on “Good administration principles and participatory rights in environmental law”
- 21 July 2013 Invited Speaker to the International Workshop on “How to Foster Sustainable Energy Investments and the Protection of the Environment”, Marie Curie Irses Project, EPSEI, Tsinghua University and Peking University, Beijing, China. Intervention on “Europe and China: comparative legal frameworks in environmental law”
- 12 February 2013 Invited Speaker to the International Colloquium on Food safety and nanotechnologies, Center for Transnational Legal Studies, London
- 16 July 2012 Invited speaker to the International conference The Making of a New European Legal Culture. The Making of a New European Legal Prevalence of a single model, or cross-fertilisation of national legal traditions? The Aarhus Convention, Compagnia di San Paolo, Unito, Torino, Italy. Intervention on “The Italian perspective”
- 31 May 2011 Invited Speaker to the Internationally Established Conference on BEPRARIBEAN, Benefit-Risk analysis of foods, Maastricht University, School of Business & Economics, Maastricht, Intervention on “Regulatory issues”
- 21-23 June 2010 Invited speaker to the 19th Society for Risk Analysis (SRA) Europe Conference, London, King’s College, Symposium on How issues of food safety are being tackled in the People's Republic of China and in Hong Kong
- 14-15 April 2010 Invited Speaker to the International Workshop within the EU project: Best Practices for Risk Benefit Analysis of Foods (BEPRARIBEAN) RIVM, Matis, Reykjavik, Iceland. Intervention on “Food Law in EU”
- 7-8 December 2009 Invited speaker to the International Expert Meeting on International Legal standards in Global Exchange of microbial genomic data to underpin response to health threats (Gesture), University of Utrecht, organised by the RIVM, Wageningen University, NL.
On-going grants

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Funding Source</th>
<th>Amount (Euros)</th>
<th>Period</th>
<th>Role of the P.I.</th>
<th>Relation to the current ERC Proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art.9 paragraph 3, Aarhus Convention</td>
<td>Ministry of Environment, Germany</td>
<td>50.000</td>
<td>2014-2016</td>
<td>Legal researcher. Head of the Italian unity of research</td>
<td>Mapping best environmental practices in EU; regulatory support</td>
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<tr>
<td>Fundamental right to water and renewable energies in Tanzania and Kenya</td>
<td>Unicoo, University of Turin</td>
<td>-</td>
<td>2015</td>
<td>Students’ supervisor</td>
<td>Mapping best practices to set up governance tools in sensitive sectors</td>
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<tr>
<td>Deutsch-Italienische Dialoge</td>
<td>DAAD</td>
<td>25.000</td>
<td>2014-2015</td>
<td>Principal Investigator for Italy</td>
<td>Facilitating academic dialogue on legal transplants</td>
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<tr>
<td>EPSEI</td>
<td>Marie Curie Irses, EU</td>
<td>-</td>
<td>2011-2015</td>
<td>Legal researcher and International Visiting Scholar</td>
<td>Academic exchange (EU/China)</td>
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<td>EU Export Market Certification of Sierra Leone. Fishery and Marine Products</td>
<td>Ministry of Fisheries, SL; CTA; World Bank</td>
<td>2 mln</td>
<td>2011-2016</td>
<td>Legal and technical assistance in drafting Food Safety Law; training and assistance in setting up regulatory tools</td>
<td>Legal technical assistance in food, environment and health issues</td>
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