### News COST: 25 new COST Actions with Swiss participation

On January 16th, 2015, the State Secretariat for Education, Research and Innovation SERI decided the participation of Switzerland in 25 new COST Actions.

<table>
<thead>
<tr>
<th>Project Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM1405</td>
<td>Non-globular proteins - from sequence to structure, function and application in molecular physiopathology (NGP-NET)</td>
</tr>
<tr>
<td>BM1406</td>
<td>Ion Channels and Immune Response toward a global understanding of immune cell physiology and for new therapeutic approaches (IONCHAN-IMMUNRESPON)</td>
</tr>
<tr>
<td>BM1407</td>
<td>Translational research in primary ciliary dyskinesia - bench, bedside, and population perspectives (BEAT-PCD)</td>
</tr>
<tr>
<td>BM1408</td>
<td>A collaborative European network of C. elegans early-stage researchers and young principal investigators (GENiE)</td>
</tr>
<tr>
<td>CM1404</td>
<td>Chemistry of Smart Energy Carriers and Technologies (SMARTCATS)</td>
</tr>
<tr>
<td>CM1405</td>
<td>Molecules in motion (MOLIM)</td>
</tr>
<tr>
<td>CM1407</td>
<td>Challenging organic syntheses inspired by nature - from natural products chemistry to drug discovery</td>
</tr>
<tr>
<td>ES1407</td>
<td>European network for innovative recovery strategies of rare earth and other critical metals from electric and electronic waste (ReCreew)</td>
</tr>
<tr>
<td>FA1306</td>
<td>The quest for tolerant varieties - Phenotyping at plant and cellular level</td>
</tr>
<tr>
<td>FA1405</td>
<td>Using three-way interactions between plants, microbes and arthropods to enhance crop protection and production</td>
</tr>
<tr>
<td>FA1408</td>
<td>A European Network for Foodborne Parasites (Euro-FBP)</td>
</tr>
<tr>
<td>Project Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>FP1407</td>
<td>Understanding wood modification through an integrated scientific and environmental impact approach (ModWoodLife)</td>
</tr>
<tr>
<td>IC1408</td>
<td>Computationally-intensive methods for the robust analysis of non-standard data (CRONoS)</td>
</tr>
<tr>
<td>IS1404</td>
<td>Evolution of reading in the age of digitisation (E-READ)</td>
</tr>
<tr>
<td>IS1408</td>
<td>Industrially Contaminated Sites and Health Network (ICSHNet)</td>
</tr>
<tr>
<td>IS1409</td>
<td>Gender and health impacts of policies extending working life in western countries</td>
</tr>
<tr>
<td>MP1404</td>
<td>Simulation and pharmaceutical technologies for advanced patient-tailored inhaled medicines (SimInhale)</td>
</tr>
<tr>
<td>MP1405</td>
<td>Quantum structure of spacetime (QSPACE)</td>
</tr>
<tr>
<td>MP1407</td>
<td>Electrochemical processing methodologies and corrosion protection for device and systems miniaturization (e-MINDS)</td>
</tr>
<tr>
<td>TU1405</td>
<td>European network for shallow geothermal energy applications in buildings and infrastructures (GABI)</td>
</tr>
<tr>
<td>TU1406</td>
<td>Quality specifications for roadway bridges, standardization at a European level (BridgeSpec)</td>
</tr>
<tr>
<td>TU1408</td>
<td>Air Transport and Regional Development (ATARD)</td>
</tr>
<tr>
<td>TD1402</td>
<td>Multifunctional Nanoparticles for Magnetic Hyperthermia and Indirect Radiation Therapy (RADIOMAG)</td>
</tr>
<tr>
<td>TD1406</td>
<td>Innovation in Intelligent Management of Heritage Buildings (i2MHB)</td>
</tr>
<tr>
<td>TD1407</td>
<td>Network on technology-critical elements - from environmental processes to human health threats</td>
</tr>
</tbody>
</table>

Switzerland-based researchers interested in either of these research topics, can address themselves, for the scientific questions to the Swiss contact of the Action concerned, and for the administrative questions to the SERI.
BM1405  Non-globular proteins - from sequence to structure, function and application in molecular physiopathology (NGP-NET)

The aim of the Action is to create an effective European network, seeking synergies to improve understanding of non-globular proteins (NGPs). A consensus among experts will provide guidelines for the classification of different NGP phenomena.

Duration of the Action: 4 years

Contact in Switzerland
Dr. Maria Anisimova
Zürcher Hochschule für Angewandte Wissenschaften
Life Sciences and Facility Management
Einsiedlerstrasse 31a
CH – 8820 Wädenswil
Tél. : +41 58 934 58 82
maria.anisimova@zhaw.ch

BM1406  Ion Channels and Immune Response toward a global understanding of immune cell physiology and for new therapeutic approaches (IONCHAN-IMMUNRESPON)

The main objective of the Action is to use modulation of ion channels for therapeutic approaches in immune diseases by identification of the pertinent targets, the development of animal models and a better understanding of their role in immune cell functionality.

Duration of the Action: 4 years

Contact in Switzerland
Prof. Karl-Heinz Krause
Université de Genève
Faculté de médecine
Département de pathologie et immunologie
1, rue Michel-Servet
CH – 1211 Genève 4
Tél. : +41 22 379 41 30
karl-heinz.krause@unige.ch
BM1407 Translational research in primary ciliary dyskinesia - bench, bed-side, and population perspectives (BEAT-PCD)

The main objective of the Action is to create a network of multidisciplinary researchers. The network will promote research from basic science to clinical care, with the ultimate goal to develop treatments that lead to improvements in long-term outcome of patients with PCD.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Prof. Claudia E. Kuehni
Universität Bern
Medizinische Fakultät
Institut für Sozial- und Präventivmedizin (ISPM)
Finkenhubelweg 11
CH – 3012 Bern
Tél. : +41 31 631 35 07
kuehni@ispm.unibe.ch

---

BM1408 A collaborative European network of C. elegans early-stage re-searchers and young principal investigators (GENiE)

The main objective of the Action is to promote and coordinate the use of the model system *C. elegans*, bridging fundamental research and therapeutic innovation. The Action is led by a collaborative interdisciplinary network of young Principal Investigators and ESRs in the ERA.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Prof. Dr. Peter Meister
Universität Bern
Departement Biologie
Institut für Zellbiologie
Baltzerstrasse 4
CH – 3012 Bern
Tél. : +41 31 631 46 09
peter.meister@izb.unibe.ch
**CM1404  Chemistry of Smart Energy Carriers and Technologies (SMARTCATS)**

The main objective of the Action is to create a European-wide network for addressing the "grand challenge" of matching the most promising Smart Energy Carriers with the advanced technologies for fuel flexible, low-carbon intensity and distributed energy generation strategies.

**Duration of the Action:** 4 years

**Contact in Switzerland**

Dr. Michel J. Rossi  
Paul Scherrer Institut (PSI)  
Laboratorium für Atmosphärenchemie (LAC)  
CH – 5232 Villigen PSI  
Tél. : +41 56 310 52 59  
michel.rossi@psi.ch

---

**CM1405  Molecules in motion (MOLIM)**

The main objective of the Action is to establish a network of theorists and experimentalists to develop set of tools aimed to address complex molecular systems via novel experiments and simulations of the nuclear motion and educating the next generation of users of the next generation of chemistry tools.

**Duration of the Action:** 4 years

**Contact in Switzerland**

Dr. Jiri Vanicek  
EPFL SB ISIC LCPT  
Laboratoire de chimie physique théorique  
BCH 3110 (Batochime UNIL)  
CH – 1015 Lausanne  
Tél. : +41 21 693 47 36  
jiri.vanicek@epfl.ch
CM1407  Challenging organic syntheses inspired by nature - from natural products chemistry to drug discovery

The main objective of the Action is to bring together an interdisciplinary group of motivated scientists from academia and industry to provide natural products of therapeutic relevance, and to promote the translation of research results into possible industrial applications.

Duration of the Action: 4 years

Contact in Switzerland
Prof. Dr. Karl-Heinz Altmann
ETH Zürich
Departement Chemie und Angewandte Biowissenschaften
Institut für Pharmazeutische Wissenschaften
Vladimir-Prelog-Weg 4
CH – 8093 Zürich
Tél. : +41 44 633 73 90
karl-heinz.altmann@pharma.ethz.ch

ES1407  European network for innovative recovery strategies of rare earth and other critical metals from electric and electronic waste (ReCreew)

The main objective of the Action is to establish a pan-European network of research and industry partners to promote CM recovery from WEEE in order to guarantee the sustainable supply for innovative European GT, ICT and renewable energy industries and life sciences.

Duration of the Action: 4 years

Contact in Switzerland
Dr. Markus Lenz
Fachhochschule Nordwestschweiz
Hochschule für Life Sciences
Institut für Ecopreneurship
Gründenstrasse 40
CH – 4132 Muttenz
Tél. : +41 61 467 47 91
markus.lenz@fhnw.ch
**FA1306  The quest for tolerant varieties - Phenotyping at plant and cellular level**

The main objective of the Action is to build an interdisciplinary network in plant phenotyping and to use this network to characterize gene bank collections and breeding programs, get insight into the basis of tolerance and to apply the knowledge for agricultural management.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Dr. Johannes Fahrentrapp  
Zürcher Hochschule für Angewandte Wissenschaften  
Forschungsbereich Biologische Landwirtschaft  
Forschungsgruppe Weinbau  
Grüental, Postfach  
CH – 8820 Wädenswil  
Tél. : +41 58 934 54 50  
johannes.fahrentrapp@zhaw.ch

**FA1405  Using three-way interactions between plants, microbes and arthro-pods to enhance crop protection and production**

The main objective of the Action is to coordinate and develop research on three-way interactions between crops, arthropods and microbes and to use this knowledge to foster novel strategies and products for crop protection and production.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Prof. Dr. Marcel van der Heijden  
Agroscope  
Institut für Nachhaltigkeitswissenschaften INH  
Reckenholzstrasse 191  
CH – 8046 Zürich  
Tél.: +41 58 468 72 78  
marcel.vanderheijden@agroscope.admin.ch
**FA1408  A European Network for Foodborne Parasites (Euro-FBP)**

The main objective of the Action is to decrease the impact on human health from foodborne parasites (FBP). EURO-FBP will harmonize methods and potential interventions and determine FBP of greatest regional importance to focus resources for FBP control.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Cédric Gérard  
Nestlé Research Center  
Food Safety Microbiology  
Case postale 44  
CH – 1000 Lausanne 26  
Tél. : +41 21 785 81 97  
Cedric.Gerard@rdls.nestle.com

---

**FP1407 Understanding wood modification through an integrated scientific and environmental impact approach (ModWoodLife)**

The main objective of the Action is to characterize the relationship between wood modification processing, product properties, and the associated environmental impacts in order to maximize sustainability and minimize environmental impacts.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Dr. Christelle Ganne-Chédeville  
Haute école spécialisée bernoise  
Architecture, bois et génie civil  
Route de Soleure 102  
CH – 2500 Bienne 6  
Tél. : +41 32 344 03 86  
christelle.ganne-chedeville@bfh.ch
IC1408  Computationally-intensive methods for the robust analysis of non-standard data (CRoNoS)

The main objective of the Action is to coordinate activities directed to the development of fast, robust, and efficient solutions to extract accurate knowledge from non-standard and imperfect data satisfying the requirements of the end-users.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Dr. Costas Bekas
IBM Research
Foundations of Cognitive Computing
Säumerstrasse 4
CH - 8803 Rüschlikon
Tél. : +41 44 724 89 69
bek@zurich.ibm.com

IS1404  Evolution of reading in the age of digitisation (E-READ)

The main objective of the Action is to improve scientific understanding of the implications of digitization on reading, and help individuals, disciplines, societies and sectors across Europe to cope optimally with the effects.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Prof. Per Bergamin
Fernfachhochschule Schweiz (FFHS)
Institut für Fernstudien- und eLearningforschung (IFeL)
Überlandstrasse 12
CH - 3900 Brig
Tél.: +41 27 922 39 50
per.bergamin@ffhs.ch
IS1408  Industrially Contaminated Sites and Health Network (ICSHNet)

The main objective of the Action is to establish and consolidate a European network of experts and institutions, and develop a common framework for research and response on environmental health issues related to industrially contaminated sites.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Dr. Kees de Hoogh
Schweizerisches Tropen- und Public Health-Institut
Departement Epidemiology and Public Health (EPH)
Socinstrasse 57
CH – 4051 Basel
Tél.: +41 61 284 87 49
c.dehoogh@unibas.ch

---

IS1409  Gender and health impacts of policies extending working life in western countries

The main objective of the Action is to enhance scientific knowledge of the gender and health impacts extended working life policies, by integrating disciplines, developing collaborations, creating scientific, policy and public interest and developing a new generation of researchers in this field.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Prof. Nicky Lefeuvre
Université de Lausanne
Faculté des sciences sociales et politiques
Institut des sciences sociales
UNIL-Mouline Bâtiment Géopolis
CH – 1015 Lausanne
Tél.: +41 21 692 32 13
Nicky.LeFeuvre@unil.ch
MP1404 Simulation and pharmaceutical technologies for advanced patient-tailored inhaled medicines (SimInhale)

The main objective of the Action is to develop a multi-disciplinary scientific network that will coordinate and enhance research and development (R&D) in the field of inhaled medicines in order to accelerate the development of a new generation of effective and safe medicines.

Duration of the Action: 4 years

Contact in Switzerland
Prof. Dr. Gerrit Borchard
Université de Genève
Section des sciences pharmaceutiques
Biopharmacie
Quai Ernest-Ansermet 30
CH – 1211 Genève 4
Tél. : +41 22 379 69 45
gerrit.borchard@unige.ch

MP1405 Quantum structure of spacetime (QSPACE)

The main objective of the Action is to exploit the existing complementary expertise of different research groups in Europe to enhance the understanding of the relations between Noncommutative Geometry and leading theories of Quantum Gravity.

Duration of the Action: 4 years

Contact in Switzerland
Prof. Dr. Alberto Cattaneo
Universität Zürich
Mathematisch-naturwissenschaft Fakultät
Institut für Mathematik
Winterthurerstrasse 190
CH – 8057 Zürich
Tél. : +41 44 635 58 77
alberto.cattaneo@math.uzh.ch
MP1407  Electrochemical processing methodologies and corrosion protection for device and systems miniaturization (e-MINDS)

The main objective of the Action is to support and promote high-quality research in electrochemical processing technologies and corrosion towards the development of miniaturized systems and devices.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Dr. Salvador Pané Vidal
ETH Zürich
Departement für Maschinenbau und Verfahrenstechnik
Institut für Robotik und Intelligente Systeme
Tannenstrasse 3
CH – 8092 Zürich
Tél. : +41 44 632 33 12
vidalp@ethz.ch

---

TU1405  European network for shallow geothermal energy applications in buildings and infrastructures (GABI)

The main objective of the Action is to build a new European network of researchers and engineers to address the challenges of thermoactive geostructures in terms of thermal and mechanical design.

**Duration of the Action:** 4 years

**Contact in Switzerland**
Dr. Lyesse Laloui
EPF Lausanne
EPFL-ENAC-ICARE-LMS
Station 18
CH – 1015 Lausanne
Tél. : +41 21 693 23 14
Lyesse.Laloui@epfl.ch
TU1406  Quality specifications for roadway bridges, standardization at a European level (BridgeSpec)

The main objective of the Action is to develop a guideline for the establishment of Quality Control plans in roadway bridges, by integrating the most recent knowledge on performance assessment procedures with the adoption of specific goals.

Duration of the Action: 4 years

Contact in Switzerland
Prof. Dr. Eleni Chatzi
ETH Zürich
Institut für Baustatik und Konstruktion
Professur für Stukturmechanik
Stefano-Francini-Platz 5
CH – 8093 Zürich
Tél. : +41 44 633 67 55
chatzi@ibk.bauq.ethz.ch

TU1408  Air Transport and Regional Development (ATARD)

The main objective of the Action is to promote a better understanding on how the air transport related problems of core regions and remote regions should be addressed in order to enhance economic competitiveness and social cohesion in Europe.

Duration of the Action: 4 years

Contact in Switzerland
Dr. Andreas Wittmer
Universität St. Gallen
Institut für Systemisches Management und Public Governance (IMP)
Dufourstrasse 40a
CH – 9000 St. Gallen
Tél. : +41 71 224 25 00
andreas.wittmer@unisg.ch
**TD1402 Multifunctional Nanoparticles for Magnetic Hyperthermia and Indirect Radiation Therapy (RADIOMAG)**

The main objective of the Action is to address several major issues facing fundamental aspects and clinical translation of magnetic hyperthermia, and to promote it as an anti-cancer treatment in combination with radiotherapy through targeted research, carefully planned cross-disciplinary interaction and dissemination to the general public.

**Duration of the Action: 4 years**

**Contact in Switzerland**
Prof. Heinrich Hofmann  
EPF Lausanne  
Institut des matériaux  
Laboratoire de technologie des poudres (LTP)  
MX-D 340  
Station 12  
CH – 1015 Lausanne  
Tél. : +41 21 693 36 07  
Heinrich.hofmann@epfl.ch

---

**TD1406 Innovation in Intelligent Management of Heritage Buildings (i2MHB)**

The main objective of the Action is to create a pan-European open network to achieve a unified common understanding and operation in the Heritage Buildings’ domain, through a novel and independent global framework.

**Duration of the Action: 4 years**

**Contact in Switzerland**
Dr. Vera Hubert  
Schweizerisches Nationalmuseum  
Sammlungszentrum  
Lindenmoosstrasse 1  
CH – 8910 Affoltern am Albis  
Tél. : +41 58 480 13 92  
vera.hubert@snm.admin.ch
TD1407 Network on technology-critical elements - from environmental processes to human health threats

The main objective of the Action is to create a network on trace elements critical for the development of new technologies, from an environmental perspective to potential human health threats, with the aim of defining the current state of knowledge and proposing priority research lines.

Duration of the Action: 4 years

Contact in Switzerland
Dr. Montserrat Filella
Université de Genève
Section des sciences de la terre et de l'environnement
Institut F.-A. Forel
10, route de Suisse
CH – 1290 Versoix
Tel : + 41 22 379 03 02
Montserrat.Filella@unige.ch