**iSwitch**

**Project ID:** 642196  
**Gefördert unter:** H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers

Integrated self-assembled SWITCHable systems and materials: towards responsive organic electronics - a multi-site innovative training action

**Von** 2015-01-01 **bis** 2018-12-31, Abgeschlossenes Projekt

### Projektdetails

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<th>Thema(en):</th>
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<td>EUR 3 826 359,20</td>
<td>MSCA-ITN-2014-ETN - Marie Skłodowska-Curie Innovative Training Networks (ITN-ETN)</td>
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<th>EU-Beitrag:</th>
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<td>France</td>
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### Ziel

iSwitch will offer top-level multi-disciplinary and supra-sectorial training to a pool of talented young researchers, involving contributions from different scientific and technological fields such as, supramolecular chemistry, materials, nanoscience, physics and engineering. iSwitch’s appointees will be trained through lecture courses, dedicated international schools and workshops, topical conferences, secondments to other consortium nodes and an ambitious and carefully planned research activities benefiting from the expertise of world-leading senior PIs and of younger but well-established PIs with outstanding track records in training and research. Additionally, iSwitch will generate new ground-breaking S&T knowledge needed to obtain efficient and fast switching in supramolecular electro- and opto-active materials as a response to external stimuli. This will be accomplished via controlled self-assembly of multicomponent architectures incorporating molecular switches, for fabricating responsive and multifunctional optoelectronic supramolecular devices. We are particularly interested in developing nano- and macro-scale switchable transistors and light-emitting devices as new solutions to (nanoscale) multifunctional organic-based logits.

The specific training and research objectives are:
- Design and synthesis of a (macro)molecular toolbox including electroactive and responsive systems as well as semiconducting and metallic nanostructures
- Controlled interfaces of switches on (non)planar surfaces
- Self-assembly of multicomponent systems into multifunctional architectures and materials
- Multiscale structural, optical and electrical characterization of systems including Scanning Probe studies and time-resolved spectroscopy
- Fabrication and characterization of switchable devices, i.e., transistors for “logics” and light-emitting devices for photonics, and related applications (optical illumination, optical filtering/landscaping, optical sensors, photovoltaics, etc.)

### Verwandte Informationen

- Gesamtkosten: EUR 3 826 359,20
- EU-Beitrag: EUR 3 826 359,20
- Koordiniert in: France
- Thema(en): MSCA-ITN-2014-ETN - Marie Skłodowska-Curie Innovative Training Networks (ITN-ETN)
- Aufruf zur Vorschlagseinreichung: H2020-MSCA-ITN-2014 See other projects for this call
- Finanzierungsprogramm: MSCA-ITN-ETN - European Training Networks
**Koordinator**

UNIVERSITE DE STRASBOURG
RUE BLAISE PASCAL 4
67081 STRASBOURG
France
See on map

**Activity type:** Higher or Secondary Education Establishments

**EU-Beitrag:** EUR 547 624,65

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**Teilnehmer**

BASF SE
CARL BOSCH STRASSE 38
67063 LUDWIGSHAFEN AM RHEIN
Germany
See on map

**Activity type:** Other

**EU-Beitrag:** EUR 249 216,48

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KATHOLIEKE UNIVERSITEIT LEUVEN
OUDE MARKT 13
3000 LEUVEN
Belgium
See on map

**Activity type:** Higher or Secondary Education Establishments

**EU-Beitrag:** EUR 238 936,80

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AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS
CALLE SERRANO 117
28006 MADRID
Spain
See on map

**Activity type:** Higher or Secondary Education Establishments

**EU-Beitrag:** EUR 247 872,96

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UNIVERSITE DE MONS
PLACE DU PARC 20
7000 MONS
Belgium
See on map

**Activity type:** Higher or Secondary Education Establishments

**EU-Beitrag:** EUR 250 560
HUMBOLDT-UNIVERSITAET ZU BERLIN
UNTER DEN LINDEN 6
10117 BERLIN
Germany
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation

EU-Beitrag: EUR 498
432,96

KARLSRUHER INSTITUT FUER TECHNOLOGIE
KAISERSTRASSE 12
76131 KARLSRUHE
Germany
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation

EU-Beitrag: EUR 249
216,48

MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV
HOFGARTENSTRASSE 8
80539 MUENCHEN
Germany
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation

EU-Beitrag: EUR 249
216,48

CONSIGLIO NAZIONALE DELLE RICERCHE
PIAZZALE ALDO MORO 7
00185 ROMA
Italy
See on map
Activity type: Research Organisations
Contact the organisation

EU-Beitrag: EUR 516
122,64

UNIVERSITY COLLEGE LONDON
GOWER STREET
WC1E 6BT LONDON
United Kingdom
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation

EU-Beitrag: EUR 273
287,88
ECOLE POLYTECHNIQUE FEDERALE DE
LAUSANNE
   BATIMENT CE 3316 STATION 1
   1015 LAUSANNE
   Switzerland
   See on map

   Activity type: Higher or Secondary Education Establishments
   Contact the organisation

UNIVERSITA DEGLI STUDI DI MODENA E REGGIO
EMILIA
   VIA UNIVERSITA 4
   41121 MODENA
   Italy
   See on map

   Activity type: Higher or Secondary Education Establishments
   Contact the organisation

A.P.E. RESEARCH SRL
   Basovizza SS 14 Km 163,5 Area di Ricerca
   34012 TRIESTE
   Italy
   See on map

   Activity type: Other
   Contact the organisation

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