

BETA

- ▶ All Actions
- ▶ Biomedicine and Molecular Biosciences (BMBS)
- ▶ **Chemistry and Molecular Sciences and Technologies (CMST)**
 - In Detail
 - **Actions**
 - Restricted Area
- ▶ Earth System Science and Environmental Management (ESSEM)
- ▶ Food and Agriculture (FA)
- ▶ Forests, their Products and Services (FPS)
- ▶ Individuals, Societies, Cultures and Health (ISCH)
- ▶ Information and Communication Technologies (ICT)
- ▶ Materials, Physics and Nanosciences (MPNS)
- ▶ Transport and Urban Development (TUD)
- ▶ Trans-Domain Proposals

CMST COST Action D35

From Molecules to Molecular Devices: Control of Electronic, Photonic, Magnetic and Spintronic Behaviour

Descriptions are provided by the Actions directly via e-COST.

The main objective of the Action is to increase the knowledge and understanding of molecular electronic, photonic, magnetic and spintronic behaviour and to design new active chemical systems and processes that could find use in molecular devices. The collaborative research will be centred around the following three general areas:

1. Design and synthesis of molecular building blocks and their organisation into molecular systems with new photonic, electronic, magnetic and spintronic behaviour.
2. Search for and investigations of photonic, electronic, magnetic and spintronic properties and processes ranging from a single molecule level to understanding of environmental effects, molecular cooperativity and build-up of organised molecular nano- and micro-size systems. Physical, mechanistic, time- and space- dependent studies will proceed from a fundamental level to property-evaluation for possible device applications.
 - Methodology development: quantum-chemical methods to simulate environmental effects and dynamical processes, time and space- resolved methods, laser control in condensed phase, property-evaluation procedures.

Chemistry and Molecular Sciences and Technologies COST Action D35

- ▶ Description
- ▶ Parties
- ▶ Management Committee



General Information*

Chair of the Action:

[Prof. Antonin VLCEK](#) (UK)

Vice Chair of the Action:

[Prof. Paola DEPLANO](#) (IT)

DC Rapporteurs:

[Dr Mihkel KOEL](#) (EE)

Science officer of the Action:

[Dr Lucia FORZI](#)

Administrative officer of the Action:

[Ms Svetlana VOINOVA](#)

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Action Fact Sheet

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Memorandum of Understanding

[Download MoU as PDF](#)

Progress Report

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Poster

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Websites*

Domain website:

<http://www.cost.eu/cmst>

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