

- ▶ All Actions
- ▶ **Biomedicine and Molecular Biosciences (BMBS)**
 - **In Detail**
 - Actions
 - Restricted Area
- ▶ Chemistry and Molecular Sciences and Technologies (CMST)
- ▶ 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

BMBS in Detail

The following examples illustrate aspects of actual research in this Domain. The scope of the Domain is not restricted to these activities; it should be noted that networking of cutting edge specific research with a high degree of complexity and multidisciplinary is encouraged.



Molecular Biosciences encompass all areas of genomics, proteomics and metabolomics. They are not limited to research in humans, but may also concern research in plants, viruses, micro-organisms, and animals. Basic and applied biomolecular research is addressed, issues connected with forestry and agriculture included. The **BMBS** research also includes issues of genome, proteins (structures and functions), lipids, study of the Central Nervous System and neuronal connections, cognitive neuroscience, immune system, cell migration, cell dysfunctions (cancer), cellular mechanisms of diseases, contagious diseases (animals to humans transmissible diseases included), tropical diseases.

Biomedicine and Specific Technologies: some of the related **BMBS** research areas include advanced imaging and treatment techniques (basic research, diagnosis, treatment procedures), medical devices and new medicines, advanced medical research on biomaterials.

Micro- and Nanomedicine (including nanotechnologies), biomedicine/molecular bioscience and pharmacology in extreme conditions such as climate change, and outer space conditions.

Research in **BMBS** is also concerned with some crucial interdisciplinary issues in the fields such as bioinformatics, biomedical engineering, medical physics and chemistry, mathematical models in medicine. Therefore, new ideas and initiatives are welcome as well as those with high interdisciplinary elements, high degree of innovation and close links and overlaps with other domains.

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