

Joint Programming Initiative Themes and COST Actions

This document provides the full list of COST Actions whose topics have been identified as related to the JPI themes. The list is presented in two parts: the first part includes COST Actions running in 2012; the second part includes ended COST Actions.

The table below provides the number of COST Actions by JPI theme for running Actions. The same Action can be listed under more than one theme (Source: COST Office).

Break down of COST Actions running in 2013 by JPI theme										
JPI theme	A	B	C	D	E	F	G	H	I	J
No. of Actions	1	8	3	3	1	1	22	23	3	8

Legend: A= EU Joint Programme in Neurodegenerative Disease Research (JPND); B= Agriculture, Food Security & Climate Change; C= A Healthy Diet for a healthy Life; D= Cultural Heritage and Global Change - a new Challenge for Europe; E= The microbial challenge - An emerging threat to human health; F= More Years, Better Lives - The Potential and Challenges of Demographic Change; G= Connecting Climate Knowledge for Europe (Clik'EU); H= Urban Europe - Global Challenges, Local Solutions; I= Water Challenges for a Changing World; J= Healthy and Productive Seas and Oceans. JPI titles used here are as reported in European Research Area Committee – High Level Group for Joint Programming (2010), Joint Programming in research 2008-2010 and beyond - Report of the High Level Group on Joint Programming to the Council, Council of the European Union Document ERAC-GPC 1311/10. For A, the title quoted in the official website of the initiative was used, as available at: www.neurodegenerationresearch.eu.

1. List of running COST Actions

EU Joint Programme in Neurodegenerative Disease Research (JPND)

- **Action CM1103 (2011-2015)** “Structure-based drug design for diagnosis and treatment of neurological diseases: dissecting and modulating complex function in the monoaminergic systems of the brain”
- **Action BM1304 (2013-2017)** “Applications of MR imaging and spectroscopy techniques in neuromuscular disease: collaboration on outcome measures and pattern recognition for diagnostics and therapy development”
- **Action BM1307 (2013-2017)** “European network to integrate research on intracellular proteolysis pathways in health and disease (PROTEOSTASIS)”
- **Action BM1309 (2013-2017)** European network for innovative uses of EMFs in biomedical applications (EMF-MED)
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Agriculture, Food Security & Climate Change

- **Action ES1304 (2013-2017)** “European network on invasive parakeets (ParrotNet): Understanding invasion dynamics and risks to agriculture and society”
- **Action FA0803 (2008-2012)** “Prevention of honeybee Colony Losses (COLOSS)”
- **Action FA0807 (2009-2013)** “Integrated Management of Phytoplasma Epidemics in Different Crop Systems”
- **Action FA0901 (2009-2013)** “Putting Halophytes to Work - From Genes to Ecosystems”



- **Action FA0906 (2010-2014)** “UV-B radiation: A specific regulator of plant growth and food quality in a changing climate (UV4growth)”
- **Action FA1302 (2013-2017)** “Large-scale methane measurements on individual ruminants for genetic evaluations”
- **Action FA1303 (2013-2017)** “Sustainable control of grapevine trunk diseases”
- **Action FA1305 (2013-2017)** “The EU Aquaponics Hub: Realising Sustainable Integrated Fish and Vegetable Production for the EU”
- **Action FA1306 (2013-2017)** “The quest for tolerant varieties: Phenotyping at plant and cellular level”
- **Action FA1307 (2013-2017)** “SUPER-B: SUsustainable Pollination in Europe: joint Research on Bees and other pollinators”
- **Action FA1308 (2013-2017)** “DairyCare”
- **Action FP0703 (2008-2012)** “Expected Climate Change and Options for European Silviculture (ECHOES)”
- **Action FP0803 (2009-2013)** “Belowground carbon turnover in European forests”
- **Action FP0903 (2009-2013)** “Climate Change and Forest Mitigation and Adaptation in a Polluted Environment”
- **Action FP1301 (2012-2016)** Innovative management and multifunctional utilization of traditional coppice forests - an answer to future ecological, economic and social challenges in the European forestry sector (EuroCoppice)”
- **Action FP1304 (2013-2017)** “Towards robust PROjections of European FOrests UNDer climate change (PROFOUND)”
- **Action FP1305 (2013-2017)** “BioLink: Linking belowground biodiversity and ecosystem function in European forests”
- **Action TD1209 (2013-2017)** “European Information System for Alien Species”
- **Action TD1302 (2013-2017)** “European network on Taeniosis/Cysticercosis”
- **Action TD1303 (2013-2017)** “EURNEGVEC - European network for neglected vectors and vector-borne infections”

A Healthy Diet for a Healthy life

- **Action FA1001 (2010-2014)** “The application of innovative fundamental food-structure-property relationships to the design of foods for health, wellness and pleasure”
- **Action FA1005 (2011-2015)** “Improving health properties of food by sharing our knowledge on the digestive process (INFOGEST)”
- **Action FA0905 (2010-2014)** “Mineral-improved crop production for healthy food and feed”
- **Action TD1304 (2013-2017)** “Zinc-Net: the Network for the Biology of Zinc”

Cultural Heritage and Global Change - a new Challenge for Europe

- **Action IS1007 (2011-2015)** “Investigating Cultural Sustainability”
- **Action TD0902 (2009-2013)** “Submerged Prehistoric Archaeology and Landscapes of the Continental Shelf”

The Microbial Challenge – An emerging threat to human health

- **Action ES1302 (2013-2017)** “European Network on ecological functions of trace metals in anaerobic biotechnologies”
- **Action TD0803 (2009-2013)** “Detecting evolutionary hot spots of antibiotic resistances in Europe (DARE)”
- **Action TD1305 (2013-2017)** “Improved Protection of Medical Devices Against Infection”



More Years, Better Lives - The Potential and Challenges of Demographic Change

- **Action IC1003 (2010-2014)** “European Network on Quality of Experience in Multimedia Systems and Services (QUALINET)”
- **Action IC1303 (2013-2017)** “Architectures, Algorithms and Platforms for Enhanced Living Environments (AAPELE)”
- **Action IS1311 (2013-2017)** “INTERFASOL - Intergenerational Family Solidarity across Europe”
- **Action MP1301 (2013-2017)** “New generation biomimetic and customized implants for bone engineering”

Connecting Climate Knowledge for Europe (Clik'EU)

- **Action CM0701 (2008-2012)** “Cascade Chemoenzymatic Processes – New Synergies Between Chemistry and Biochemistry”
- **Action CM0901 (2010-2014)** “Detailed chemical kinetic models for cleaner combustion”
- **Action CM0903 (2009-2013)** “Utilisation of Biomass for Sustainable Fuels & Chemicals (UBIOCHEM)”
- **Action CM0904 (2010-2014)** “Network for intermetallic compounds as catalysts for steam reforming of methanol (IMC-SRM)”
- **Action CM1202 (2012-2016)** “Supramolecular photocatalytic water splitting (PERSPECT-H2O)”
- **Action CM1205 (2013-2017)** “Catalytic Routines for Small Molecule Activation (CARISMA)”
- **Action CM1303 (2013-2017)** “Systems Biocatalysis”
- **Action ES0702 (2008-2012)** “European Ground-Based Observations of Essential Variables for Climate and Operational Meteorology (EG-CLIMET)”
- **Action ES0801 (2008-2012)** “The ocean chemistry of bioactive trace elements and paleoclimate proxies”
- **Action ES0804 (2009-2013)** “Advancing the integrated monitoring of trace gas exchange between biosphere and atmosphere”
- **Action ES0805 (2009-2013)** “The Terrestrial Biosphere in the Earth System”
- **Action ES0806 (2009-2013)** “Stable Isotopes in Biosphere-Atmosphere-Earth System Research (SIBAE)”
- **Action ES0901 (2009-2013)** “European procedures for flood frequency estimation (FloodFreq)”
- **Action ES0902 (2009-2013)** “Permafrost and gas hydrate related methane release in the Arctic and impact on climate change: European cooperation for long-term monitoring: PERGAMON”
- **Action ES0907 (2010-2014)** “INTEgrating Ice core, MARine and TERrestrial records - 60,000 to 8000 years ago (INTIMATE)”
- **Action ES1005 (2011-2015)** “Towards a more complete assessment of the impact of solar variability on the Earth’s climate”
- **Action ES1303** “TOPROF: Towards Operational ground based PROFiling with ceilometers, Doppler lidars and microwave radiometers for improving weather forecasts”
- **Action ES1305** “European Network for the Radar surveillance of Animal Movement (ENRAM)”
- **Action FP0703 (2008-2012)** “Expected Climate Change and Options for European Silviculture (ECHOES)”
- **Action FP0803 (2009-2013)** “Belowground carbon turnover in European forests”
- **Action FP0903 (2009-2013)** “Climate Change and Forest Mitigation and Adaptation in a Polluted Environment”
- **Action FP1303 (2013-2017)** “Performance of bio-based building materials”
- **Action FP1304 (2013-2017)** “Towards robust PROjections of European FOrests UNDer climate change (PROFOUND)”
- **Action FP1306 (2013-2017)** “Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies”
- **Action IS0802 (2008-2012)** “The Transformation of Global Environmental Governance: Risks and Opportunities (TGEG)”
- **Action IS1007 (2011-2015)** “Investigating Cultural Sustainability”



- **Action IS1101 (2011-2015)** “Climate Change and Migration: Knowledge, Law and Policy, and Theory”
- **Action IS 1309 (2013-2017)** “Innovations in Climate Governance: Sources, Patterns and Effects (INOGOV)”
- **Action IC0804 (2009-2013)** “Energy efficiency in large scale distributed systems”

Urban Europe - Global Challenges, Local Solutions

- **Action IC0903 (2009-2013)** “Knowledge Discovery from Moving Objects (MOVE)”
- **Action IC0906 (2010-2014)** “Wireless Networking for Moving Objects (WiNeMO)”
- **Action IC1004 (2011-2015)** “Cooperative Radio Communications for Green Smart Environments”
- **Action IC1301 (2013-2017)** “WiPE - Wireless Power Transmission for Sustainable Electronics”
- **Action MP1307 (2013-2017)** “Stable Next-Generation Photovoltaics: Unraveling degradation mechanisms of Organic Solar Cells by complementary characterization techniques (StableNextSol)”
- **Action MP1308 (2013-2017)** “Towards an Oxide-Based Electronics (Acronym: TO-BE)”
- **Action TD1207 (2013-2017)** “Mathematical Optimization in the Decision Support Systems for Efficient and Robust Energy Networks”
- **Action TU0701 (2008-2012)** “Improving the Quality of Suburban Building Stocks”
- **Action TU0702 (2008-2012)** “Real-time Monitoring, Surveillance and Control of Road Networks under Adverse Weather Conditions”
- **Action TU0801 (2008-2012)** “Semantic enrichment of 3D city models for sustainable urban development”
- **Action TU0802 (2009-2013)** “Next generation cost effective phase change materials for increased energy efficiency in renewable energy systems in buildings (NeCoE-PCM)”
- **Action TU0803 (2009-2013)** “Cities Regrowing Smaller - Fostering Knowledge on Regeneration Strategies in Shrinking Cities across Europe”
- **Action TU0804 (2009-2013)** “Survey Harmonisation with New Technologies Improvement (SHANTI)”
- **Action TU0901 (2009-2013)** “Integrating and Harmonizing Sound Insulation Aspects in Sustainable Urban Housing Constructions”
- **Action TU0903 (2009-2013)** “Methods and tools for supporting the use, calibration and validation of traffic simulation models (MULTITUDE)”
- **Action TU0902 (2009-2013)** “Integrated assessment technologies to support the sustainable development of urban areas”
- **Action TU0904 (2010-2014)** “Integrated Fire Engineering and Response (IFER)”
- **Action TU0905 (2010-2014)** “Structural Glass - Novel design methods and next generation products”
- **Action TU1001 (2010-2014)** “Public Private Partnerships in Transport: Trends and Theory”
- **Action TU1002 (2010-2014)** “Accessibility instruments for planning practice in Europe”
- **Action TU1003 (2011-2015)** “MEGAPROJECT: The Effective Design and Delivery of Megaprojects in the European Union”
- **Action TU1004 (2011-2015)** “Modelling Public Transport Passenger Flows in the Era of Intelligent Transport Systems”
- **Action TU1301 (2013-2017)** “NORM for Building materials – Network”
- **Action TU1302 (2013-2017)** “SaPPART (Satellite Positioning Performance Assessment for Road Transport)”
- **Action TU1304 (2013-2017)** “WINERCOST :WINd Energy Technology Reconsideration to enhance the CONcept of Smart ciTies”

- **Action TU1305 (2013-2017)** “Social networks and travel behaviour”
- **Action TU1306 (2013-2017)** “CYBERPARKS - Fostering knowledge about the relationship between Information and Communication Technologies and Public Spaces supported by strategies to improve their use and attractiveness”
- **Action TD0804 (2009-2013)** “Soundscape of European Cities and Landscapes”

Water Challenges for a Changing World

- **Action ES0901 (2009-2013)** “European procedures for flood frequency estimation (FloodFreq)”
- **Action IC0806 (2009-2013)** “Intelligent Monitoring, Control and Security of Critical Infrastructure Systems”

Healthy and Productive Seas and Oceans

- **Action ES0801 (2008-2012)** “The ocean chemistry of bioactive trace elements and paleoclimate proxies”
- **Action ES0904 (2010-2014)** “European Gliding Observatories Network (EGO)”
- **Action ES0906 (2010-2014)** “Seagrass productivity: from genes to ecosystem management”
- **Action ES1001 (2010-2015)** “SMOS Mission Oceanographic Data Exploitation”
- **Action ES1003 (2010-2015)** “Development and implementation of a pan-European Marine Biodiversity Observatory System (EMBOS)”
- **ES1205 (2013-2017)** “Transfer of Engineered Nanomaterials from wastewater Treatment & stormwater to Rivers (ENTER)”
- **Action ES1301 (2013-2017)** “Impact of Fluid circulation in old oceanic Lithosphere on the seismicity of transform-type plate boundaries: new solutions for early seismic monitoring of major European Seismogenic zones – FLOWS”
- **Action FA1301 (2013-2017)** “CephInAction - A network for improvement of cephalopod welfare and husbandry in research, aquaculture and fisheries”
- **Action FA1304 (2013-2017)** “Swimming of fish and implications for migration and aquaculture (FITFISH)”

2. List of ended COST Actions

EU Joint Programme in Neurodegenerative Disease Research (JPND)

- **Action B30 (2006-2010)** “Neural Regeneration and Plasticity: NEREPLAS”
- **Action BM0603 (2007-2011)** “Inflammation in Brain Disease (NEURINFNET)”

Agriculture, Food Security & Climate Change

- **Action 729 (2005-2010)** “Assessing and Managing Nitrogen Fluxes in the Atmosphere-Biosphere System in Europe”
- **Action 734 (2006-2010)** “Impacts of Climate Change and Variability on European Agriculture: CLIVAGRI”
- **Action FA0604 (2007-2011)** “Triticeae genomics for the advancement of essential European crops (TritiGen)”
- **Action FA0605 (2007-2011)** “Signaling control of stress tolerance and production of stress protective compounds in plants”

A Healthy Diet for a Healthy Life

- **Action FA0602 (2007-2011)** “Bioactive food components, mitochondrial function and health”
- **Action B35 (2006-2010)** “Lipid Peroxidation Associated Disorders: LPO”



Cultural Heritage and Global Change - a new Challenge for Europe

- **Action D42 (2006-2010)** "Chemical Interactions between Cultural Artefacts and Indoor Environment (EnviArt)"
- **Action C15 (2002-2006)** "Technical infrastructure and vegetation-improving relations and preventing conflicts by an Interdisciplinary approach"
- **Action C20 (2005-2009)** "Urban Knowledge Arena – Developing a European Arena for Cross-Boundary Co-operation in Production of Knowledge and Know-how on Complex Urban Problems"
- **Action C22 (2005-2009)** "Urban Flood Management"
- **Action C26 (2006-2010)** "Urban Habitat Constructions under Catastrophic Events"
- **Action IE0601 (2007-2011)** "Wood Science for Conservation of Cultural Heritage (WoodCultHer)"

The Microbial Challenge – An emerging threat to human health

- **Action D34 (2005-2010)** "Molecular Targeting and Drug Design in Neurological and Bacterial Diseases"

Connecting Climate Knowledge for Europe (Clik'EU)

- **Action 639 (2006-2010)** "Greenhouse gas budget of soils under changing climate and land use (BurnOut)"
- **Action 729 (2005-2010)** "Assessing and Managing Nitrogen Fluxes in the Atmosphere-Biosphere System in Europe"
- **Action 733 (2005-2010)** "Harmonisation and Applications of Weather Types Classifications for European Regions"
- **Action 734 (2006-2010)** "Impacts of Climate Change and Variability on European Agriculture: CLIVAGRI"
- **Action 735 (2006-2011)** "Tools for Assessing Global Air–Sea Fluxes of Climate and Air Pollution Relevant Gases"
- **Action ES0601 (2007-2011)** "Advances in homogenisation methods of climate series: an integrated approach (HOME)"
- **Action ES0604 (2007-2011)** "Atmospheric Water Vapour in the Climate System (WaVaCS)"

Urban Europe - Global Challenges, Local Solutions

- **Action C11 (2000-2004)** "Greenstructures and urban planning"
- **Action C15 (2002-2006)** "Technical infrastructure and vegetation-improving relations and preventing conflicts by an Interdisciplinary approach"
- **Action C21 (2005-2009)** "Towntology – Urban Ontologies for an Improved Communication in Urban Civil Engineering Projects"
- **Action C23 (2005-2009)** "Strategies for a Low Carbon Built Environment"
- **Action C24 (2006-2011)** "Analysis and Design of Innovative Systems for Low-EXergy in the Built Environment: COSTeXergy"
- **Action TU0601 (2007-2011)** "Robustness of Structures"
- **Action TU0602 (2007-2011)** "Land Management for Urban Dynamics"
- **Action TU0603 (2007-2011)** "Buses with a high level of service"

Water Challenges for a Changing World

- **Action 636 (2005-2009)** "Xenobiotics in the Urban Water Cycle"
- **Action 637 (2006-2010)** "Metals and Related Substances in Drinking Water"
- **Action 869 (2006-2011)** "Mitigation Options for Nutrient Reduction in Surface Water and Groundwaters"
- **Action FP0601 (2007-2011)** "Forest Management and the Water Cycle (FORMAN)"



- **Action C18 (2003-2008)** “Performance assesement of urban infrastructure services: the case of water supply, wastewater and solid waste”
- **Action C22 (2005-2009)** “Urban Flood Management”

Healthy and Productive Seas and Oceans

- **Action 635 (2004-2008)** “INTERCAFE : Conserving Biodiversity – Interdisciplinary Initiative to Reduce pan-European Cormorant-Fisheries Conflicts”
- **Action 735 (2006-2011)** “Tools for Assessing Global Air–Sea Fluxes of Climate and Air Pollution Relevant Gases”
- **Action ES0604 (2007-2011)** “Atmospheric Water Vapour in the Climate System (WaVaCS)”
- **Action FA0601 (2007-2011)** “Fish reproduction and fisheries”