



2012-IPR-I-30-000-00641

Systems Neurotoxicology

Position for:

CATEGORY 30

The understanding of underlying mechanisms of neurotoxicity is crucial to define mode-of-action for CNS toxicity which is one of the most sensitive target organ. In order to make progress in this field a number of various emerging technologies have to be applied in order to define the molecular mechanisms involved. The European Research Programme "SEURAT-1" applies this approach as a first step to addressing long term toxicities, including neurotoxicity. The grantholder will be embedded in institutional as well as in SEURAT-1 projects that will allow the scientific and technical exchange of experiences and information with partner institutions.

The candidate will be scientifically and technically responsible for running of a variety of different technologies such as measurement of electrical activity, high content imaging and other molecular biological methods using neuronal cell culture models. These techniques should be applied to understand the perturbation of so called toxicity pathways relevant for neurotoxicity. A key aim of the project is to define adverse outcome pathways for neurotoxicity. The work will be carried out in close collaboration with team members currently working on similar projects.

Qualifications:

The ideal candidate should have a Ph.D. or a minimum of 5 years of research experience after the first degree giving access to doctoral studies in biological sciences, biochemistry or a related scientific discipline. Proven experience in the above mentioned technologies and basic skills in cell culture methods are desirable. Experience in neurobiology and relevant techniques would be an additional value.

The candidate should be able to report on scientific research (written reports, publications, and presentations). The candidate should possess qualities of personal vision, determination and commitment, ability to work in a multicultural environment and in a team.

Good knowledge of spoken and written English is essential.

Institute Unit Action	Institute for Health and Consumer Protection Systems Toxicology Unit 15018 – Systems Toxicology Further information: http://ihcp.jrc.ec.europa.eu/
Indicative duration	36 months
Preferred starting date	January 2013
JRC Site	Ispra
Country	Italy
Rules	Grantholders: http://ec.europa.eu/dgs/jrc/downloads/jrc_grantholder_rules.pdf