An integrated interdisciplinary approach to animal-free nanomaterial and chemical safety assessment

The European Training Network In3 invites applications for **15 positions** for **Early Stage Researchers (ESR)/PhD students**.

Research in **In3** (http://estiv.org/in3) aims to significantly further the development of animal-free chemical and nanomaterial (NM) safety evaluation.

In3 will provide to a new generation of young researchers a scientific and training program aimed at integrating human in vitro testing with computational approaches.

The project will focus on human induced pluripotent stem cells (hiPSC) derived tissues, including liver, kidney, brain, lung and vasculature and utilise mechanistic toxicology, quantitative adverse outcome pathways, biokinetics, cheminformatics and modelling approaches to derive testable prediction models.

All Early Stage Researchers (ESRs) will work towards the same goal, utilising the same chemicals, donor cells, assays and software packages. All data will be centrally housed in standardized formats, appropriately annotated and linked with protocols and material information.

While ESRs will hone their skills in their own field of expertise, they will also collaborate to create an in depth safety evaluation testing platform for the chosen test compounds. By interaction, problem solving, training and secondments over the three years, they will acquire a unique set of interdisciplinary skills for chemical and NM safety assessment.

The project aims to accelerate the realization of animal-free safety assessment and to graduate 15 PhD students with the ideal skill sets to carry out the strategy designed in in3 in the near future.