

PARTNERSEARCH LIFESCIENCE/HEALTH CALL 2005-2.1.3-6 - NEUROSCIENCE TECHNOLOGIES

Austrian public holding of a group of general hospitals, specialized clinics and health schools seeks participation in STREP under slot **LSH-2005-2.1.3-6: Neuroscience-oriented new technologies**.

The department of pathology and neuropathology of a leading clinic for neurology, neurosurgery and psychiatry has high expertise in handling human brain tissue, storing tissue samples - frozen, paraffin embedded and in handling cell cultures, in diagnostic neuropathology and in collaborating with other research laboratories.

The project would focus on the development of new diagnostic and therapeutic tools for neuronal and psychiatric diseases using a new ultrasensitive topological proteomics technology. This new method has the potential to be a powerful tool in analysing protein structures in cells of the human brain on a subcellular level, mapping the topological position of many proteins simultaneously in single cells and in their neighbouring cells. The results are images of functional protein networks, which are specific signatures of neuronal and glial cells, their communication, well of their cell states and diseases.

The reflection of the results of new proteomic technology on the basis of the traditional pathological science will need further collaborations with clinicians, genomics, proteomics, bioinformatics and bio engineering and will lead to new diagnostic strategies and pharmacological insights.

In addition to the scientific excellence of the department directly involved, the holding has EC project experience (current IP participation) and scalable administrative capabilities (nearly 10.000 employees) and vast general test-bed capabilities (over one million patients per year). This would allow various types of participation. If requested, even a central role in the overall project coordination could be assigned to the holding.

PLEASE CONTACT

Edith Mayer

CATT Innovation Management GmbH

mayer@catt.at ; 0043-732-9015-5434