

## **Department of Medicine and Health Sciences "Vincenzo Tiberio"**

### **-Position:**

Fixed term contract for a type letter a) fixed-term part-time researcher, according to the art. 24, 2010 December 30 n. 240 law, disciplinary scientific sector BIO/10 GENERAL BIOCHEMISTRY, Disciplinary Sector 05/E1 GENERAL BIOCHEMISTRY, area CUN 05.

### **- Research commitments, teaching activities:**

The candidate will have to carry out scientific research in the field of neurodegenerative diseases, in particular he/she will investigate the biochemical pathways activated during Alzheimer's dementia, both in cellular and animal models. The research project in which the candidate will be involved concerns the study of specific transcriptional and signaling pathways, the study of interactions between proteins, between proteins and DNA as well as the consequent transcriptional aspects. The candidate will therefore have to possess expertise in techniques such as qRT-PCR, SPR, confocal microscopy (FRET/FLIM).

The candidate will also have to exploit these lines of research by investigating the role of molecules and drugs (repositioning) capable of modifying the identified dysfunctional pathways. The candidate will also have to take care of and develop dissemination activities for the innovative aspects and internationalization of research. The candidate will also have to carry out lab-tutoring activities as well as assisting students in drafting papers for the final exam and degree thesis within the 3/5 year courses, master's and research doctorate courses activated at the Department of Medicine and of Health Sciences "Vincenzo Tiberio" and in other Departments of the University of Molise.

The candidate should also participate and carry out some teaching activities in subjects relevant to the SSD BIO/10 Biochemistry within the three-year or master's degree courses at the "Vincenzo Tiberio" Department of Medicine and Health Sciences and other Departments of the University of the Studies of Molise.

### **- Scientific productivity targets (publications, conferences, other types of products) and qualitative characteristics of scientific production:**

The candidate will have to set research objectives of a high international profile, with publications in journals with a high international diffusion that lead him/her to provide a significant contribution in the next VQR evaluations of the Department of Medicine and Health Sciences "Vincenzo Tiberio" of the University of the Studies of Molise.

**- Operative place:** Medicine and Science Health "Vincenzo Tiberio" Department of the University of Molise - Campobasso.

**- Maximum number of publications that the candidate may submit:** 12 (twelve).

**- Language skills required:** English.

**- Report modalities about the activities:** annual report on teaching and research activities performed, research projects in progress, and expected results in terms of publications in international journals but also in terms of participation in sector congresses.