



UNIVERSITA' DEGLI STUDI DELL'AQUILA

AMMINISTRAZIONE CENTRALE
AREA GESTIONE DELLE RISORSE UMANE
SETTORE CONCORSI E SELEZIONI

UNIVERSITY OF L'AQUILA
CENTRAL ADMINISTRATION
HUMAN RESOURCES DEPARTMENT

ANNOUNCEMENT (ENGLISH SUMMARY)

DECREE OF THE RECTOR NO. 1201-2014 (G.U. n. 94 - 02.12. 2014)

A public selection procedure for the recruitment of one full-time, three-year researcher position is being held at the University of L'Aquila in compliance with art. 24, comma 3, letter a of Law n. 240, 30th December 2010.

Competition Sector: 05/D1 - Physiology
Scientific - Disciplinary Sector: BIO/09 - Physiology
Department of Biotechnological and Applied Clinical Sciences

Research project title:

Neurodegeneration e neuroprotection: Developing neuroprotective strategies and functional substitution. Correlation between degeneration / dysfunction of photoreceptors and functional reorganization of the inner retina.

Project summary:

The research project concerns the study of retinal neurodegenerative diseases in animals, with environmentally and genetically induced degeneration, and in patients for whom the study of retinal functioning activity shall be associated with genome studies.

The aim of the research project is the development of neuroprotective techniques whose effectiveness can be optimized through the knowledge and understanding of a patient's functional and genotype conditions.

At the same time, functional substitution methods and techniques shall be developed to be applied to the retina of patients who can no longer see. The researcher shall develop new electrophysiological recording techniques using MEA multielectrode array systems, integrating them with standard in- vivo and in-vitro recording methods.

Research to be carried out:

Developing neuroprotective strategies and functional substitution. Correlation between degeneration / dysfunction of photoreceptors and



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functional reorganization of the inner retina. The researcher obtaining the position shall carry out activities indicated in the description of the research project.

Teaching activities and integrated activities of students:

The researcher recruited will be required to carry out integrated teaching activities in the subject of Physiology, taught in both Bachelor-level and Master-level degree courses. He/she will also be required to participate in exam commissions, orientation and tutoring and to provide theses assistance for degree course and Ph.D. students.

Research and teaching shall be carried out at:

Department of Biotechnological and Applied Clinical Sciences -
University of L'Aquila.

Number of hours required for all teaching and student-assistance activities:

350 hours per year.

Total number of hours required for research, teaching and integrated activities:

1,500 hours per year.

Salary:

Standard initial salary for confirmed full-time researchers.

Qualifications required for participation:

Applicants wishing to take part in the present selection procedure must possess the following qualifications:

Ph.D in Biochemistry and Neuroscience, or Ph.D in Biotechnological research, or an equivalent qualification obtained in Italy or abroad,

or, alternatively:

V.O. Degree in Biotechnologies (former Italian Master Degree) with a major in Medical Biotechnologies, or Specialist/Master Degree corresponding to degree classes indicated in Ministerial Decree n. 509/99 (9/S Medical, Veterinary and Pharmaceutical Biotechnologies) and in Ministerial Decree n. 270/2004 (LM-9 Medical Veterinary and Pharmaceutical Biotechnologies) and a professional C.V. attesting personal research carried out by the candidate in the field of retinal physiology together with extensive scientific experience in the field of development and functional organization of retinal circuitry in physiological and pathological conditions.

Foreign language requisite:



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English.

Application period:
02.12.2014 / 02.01.2015

**To consult the complete text of this announcement (in Italian)
please visit the corresponding webpage in our Italian site.**