

Prof. Romain K. Gherardi - summary of work

Civilité :	GBERARDI	Prénom :	Romain
Date de naissance :	20/04/1952		
Grade :	PUPH CE1		
Etablissement d'affectation :	Université Paris-Est Créteil UFR de Médecine		
Section de CNU :	42 (Morphologie-Morphogenèse)		
Unité de recherche d'appartenance :	U955-E10		

Romain Gherardi born in 1952 is neurologist and neuropathologist, Professor in Histology, heading the Expert Neuromuscular Center at the University Hospital Henri Mondor of Créteil. Romain Gherardi heads for more than 20 years a research unit, labelled by INSERM and Université Paris Est-Créteil, France. The research unit U955-E10, entitled “Cellular interactions in the nervous and muscular systems” is a multidisciplinary research group, including both clinicians and fundamental biologists, full time researchers and university personnels from both the faculty of Medicine and faculty of Science, with multiple expertises in the field of histology, cell biology, animal physiology, immunology, and neuroscience. It belongs to the Département Hospitalo-Universitaire (DHU) entitled « Personalized Neurology and Psychiatry” (director: Marion Leboyer), recently labelled after competitive evaluation by AP-HP. This DHU currently explores the role of “genes x environment interactions” in neurologic and psychiatric diseases. Romain Gherardi has published 300 research papers indexed in PubMed, mainly in the field of neuromuscular biology, pathology and clinics. His H index is 45. Romain Gherardi has been elected president of the French Society of Neuropathology in December 2012.

Five recent representative publications

- Muscle satellite cells and endothelial cells: close neighbors and privileged partners. CHRISTOV C, CHRETIEN F, ABOU-KHALIL R, BASSEZ G, VALLET G, AUTHIER FJ, BASSAGLIA Y, SHININ V, TAJBAKHSH S, CHAZAUD B, GHERARDI RK. **Mol Biol Cell**. 2007 Apr;18(4):1397-409 [O]
- Inflammatory monocytes recruited after skeletal muscle injury switch into antiinflammatory macrophages to support myogenesis. ARNOLD L, HENRY A, PORON F, BABA-AMER Y, VANROOIJEN N, PLONQUET A, GHERARDI RK, CHAZAUD B. **J Exp Med**. 2007;204(5):1057-69. [O]
- Autocrine and paracrine angiopoietin 1/Tie-2 signaling promotes muscle satellite cell self-renewal. ABOU-KHALIL R, LE GRAND F, PALLAFACCHINA G, VALABLE S, AUTHIER FJ, RUDNICKI MA, GHERARDI RK, GERMAIN S, CHRETIEN F, SOTIROPOULOS A, LAFUSTE P, MONTARRAS D, CHAZAUD B. **Cell Stem Cell**. 2009 Sep 4;5(3):298-309.
- Myoinjury transiently activates muscle antigen-specific CD8+ T cells in lymph nodes in a mouse model. LIAO H, FRANCK E, FRÉRET M, ADRIOUCH S, BABA-AMER Y, AUTHIER FJ, BOYER O, GHERARDI RK. **Arthritis Rheum**. 2012 Oct;64(10):3441-51[O]
- Whole microvascular unit deletions in dermatomyositis. GITIAUX C, KOSTALLARI E, LAFUSTE P, AUTHIER FJ, CHRISTOV C, GHERARDI RK. **Ann Rheum Dis**. 2013 72:445-52[O]

Five research topics

- Microvascular organization of skeletal muscle (AFM)
- Muscle cell interplays at work during muscle growth and repair (AFM)
- Pathophysiology of idiopathic inflammatory myopathies (INSERM)
- Macrophagic myofasciitis: biomarkers and susceptibility factors (E3M, PICRI-IdF)
- Animal models to investigate aluminium adjuvant safety (NeRF, Dowskin)