



**SAPIENZA**  
UNIVERSITÀ DI ROMA

*Medical School*  
*Neuromuscular Research Group*

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## **Postdoctoral fellowship position in the Neuromuscular Research group directed by Prof. Antonio Musarò at Sapienza University of Rome, Italy**

One-year postdoctoral fellowship (renewable) is available in the lab of Prof. Antonio Musarò at Sapienza University of Rome to study the contribution of molecular mediators of inflammation to muscular dystrophy progression and implications for therapy.

The Musarò lab works on the development of novel therapies to counteract muscle wasting in neuromuscular diseases.

The successful candidates will be part of ongoing efforts to elucidate the role of specific mediators of the inflammatory response in the pathogenesis of muscular dystrophy and design more specific therapeutic approach to sustain a long-lasting stabilization and survival of dystrophic myofibers. The project will provide a robust rationale for the development of a novel, highly translational therapeutic strategy for DMD.

He/she will exploit different approaches (molecular and cell biology technics, FACS analysis, RNAseq, drug screenings), using specific experimental models, both in vitro and in vivo.

We are looking for a highly motivated individual with a strong background in muscle biology, muscle regeneration, NMJ analysis.

Experience with in vivo experimental models would be considered a plus. We require at least one major first-author original research publication, the ability to drive discovery by working independently, interacting with colleagues with different backgrounds and establishing relevant collaborations.

We offer state-of-the-art labs and facilities, a stimulating environment, an exciting research project and multiple occasions of interaction with world leaders in the fields of muscle research.

Salary will follow the Sapienza University of Rome postdoctoral fellow salary scale.

Interested candidates shall apply following the info related to the call: [https://web.uniroma1.it/trasparenza/dettaglio\\_bando/189520/2022-05-27T00%3A00%3A00](https://web.uniroma1.it/trasparenza/dettaglio_bando/189520/2022-05-27T00%3A00%3A00)

Relevant related publications:

Pelosi, L., Berardinelli MG, De Pasquale L, Nicoletti C, D'Amico A, Carvello F, Moneta GM, Catizone A, Bertini E, De Benedetti F, Musarò A. Functional and Morphological Improvement of Dystrophic Muscle by Interleukin 6 Receptor Blockade, *EBioMedicine* 2015; 2:285-93.

Pelosi L, Berardinelli MG, Forcina L, Spelta E, Rizzuto E, Nicoletti C, Camilli C, Testa E, Catizone A, De Benedetti F, Musarò A. Increased levels of interleukin-6 exacerbate the dystrophic phenotype in mdx mice. *Hum Mol Genet.* 2015; 24:6041-53

Petrillo S, Pelosi L, Piemonte F, Travaglini L, Forcina L, Catteruccia M, Petrini S, Verardo M, D'Amico A, Musarò A, Bertini E. Oxidative stress in Duchenne muscular dystrophy: focus on the NRF2 redox pathway. *Hum Mol Genet.* 2017; 26:2781-2790.

Ascenzi F, Barberi L, Dobrowolny G, Villa Nova Bacurau A, Nicoletti C, Rizzuto E, Rosenthal N, Scicchitano BM, Musarò A. Effects of IGF-1 isoforms on muscle growth and sarcopenia. *Aging Cell.* 2019 Jun;18(3):e12954.