

2027(Pd3m) Padua Days on Muscle and Mobility Medicine

from March 9th to March 12th, 2027 - *Euganean Thermae, Padua (Italy)*

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REGISTRATION FEES: € 350 - One-Day REGISTRATION FEES: € 150- On-Line REGISTRATION FEES: € 100 - Young Attendees: Exempt

Send Registration and Accommodation Forms to: ugo.carraro@unipd.it and petrarca@hotelpetrarca.it

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ABSTRACT TEMPLATE Submission Deadline November 30th, 2026

Electrical stimulation of permanently denervated muscles

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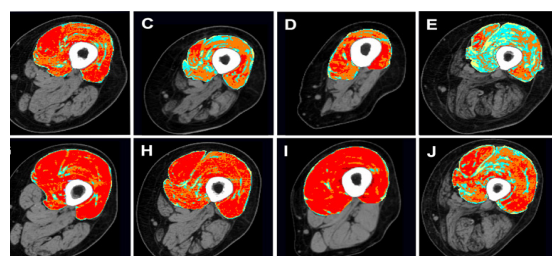
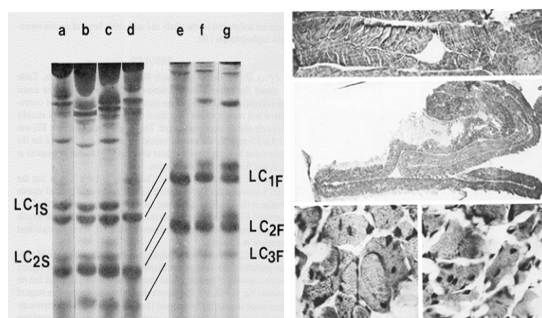
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I begin with the first typescript of which I was first Author and with the fortuitous events that led me to dedicate myself to muscle denervation and its electrical stimulation in animal models (1,2) and in

patients (3). After years of basic research, I met Helmut Kern at the Department of Biomedical Sciences of the University of Padua. Helmut had brought his thesis in Rehabilitation, which described the experience of a very young rehabilitation specialist in treating cases of implantation of the Vienna FES electrostimulator in paraplegic patients. He asked me for my opinion to gather more solid evidence of muscle improvements even in the most severe cases, those of patients with permanent denervation of the lower limbs. My immediate response was: Dear Helmut, could you collect some muscle biopsies? Thanks to his great optimism, a long collaboration was born almost immediately, which continued for many years. Meanwhile, new collaborators from Italy, Slovakia, and Iceland joined us, and new themes were explored (4,5).

Etc, ... NO RESTRICTION ON TEXT LENGTH.

Key words (3 to 5): permanent muscle denervation; preliminary aging and aging; countermeasures; electrical stimulation; hbFES for DDM.



Forty years of research on translational myology for denervated degenerating muscle by hbFES: From rats (top: black/white panels, 1979¹ and 1985²) to patients (bottom: color panels 2020³⁻⁵).

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References (3 to 5):

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