CIR-Myo News

Institution of the Padua University Interdepartmental Research Center of "Myology: Biology, Physiopathology, Clinics and Biotechnologies of Skeletal Muscle Tissue (CIR-Myo)

The July 30, 2013 the Rector of the University of Padova signed the *Decreto Rettoriale* Rep n. 2047, Prot. N. 66226, Anno 2008, Tit. Vi, Cl. 8, Fasc 8 that approved and activates the Institution of the Interdepartmental Research Center of Myology of the Padua University.

The "Decreto Rettorale" and the Statute of CIR-Myo could be downloaded from the BAM On-Line website at the link: http://www.bio.unipd.it/bam/

The CIR-Myo Organs are: 1. the Director Prof. Marco Sandri, and 2. The Council that is composed by the acting Directors of the five "Founder University Departments" of the CIR-Myo, i. e., the Department of Biology, the Department of Biomedical Sciences, the Department of Neurosciences, the Department of Comparative Biomedicine and Nutrition, and the Department of Surgery, Oncology and Gastroenterology Sciences, and by three elected members, Prof. Carlo Reggiani, Prof. Stefano Masiero and Prof. Marco Sandri. After resignation of Marco Sandri, elected by the Council CIR-Myo Director, a third representative of the afferent university personnel is expected to be soon elected.

The CIR-Myo scientists will operate along the following researcher lines:

A) Biologia del muscolo denervato,
Biology of the denervated muscle;
B) Miopatie e organizzazione spaziale dei mionuclei,
Myopathies and spatial redistribution of muscle nuclei;
C) Applicazioni in Riabilitazione dell'Elettro-Stimolazione Funzionale del muscolo denervato,
Functional Electrical Stimulation of denervated muscle in Rehabilitation;
D) Marcatori tessutali e sierologici di miopatia associata a neoplasia del colon retto,
Serum and tissue markers of myopathies associated to the colorectal cancer;
E) Imaging muscolare funzionale, *Functional Muscle Imaging*;
F) Meccanismi patogenetici della Sclerosi Laterale Amiotrofica (SLA),
Pathogenesis of Amyotrophic lateral sclerosis (ALS);
G) La proteina chinasi della Distrofia miotonica: funzione mitocondriale e morte cellulare,
Protein-kinase of Myotonic Dystrophy: Mitocondrial function and cell death;
H) Impianto di cellule staminali miogeniche tramite matrici tridimensionali biocompatibili; un nuovo approccio per il trattamento di patologie muscolari ereditarie ed acquisite,
Myogenic cell stem implants using tridimensional biocompatible matrices: a new approach for genetic and acquired muscle pathologies;
I) Strategie di accelerazione della rigenerazione assonale in Chirurgia Plastica,
Strategies to accelerate axonal regeneration in Plastic Surgery;
J) Ruolo di segnali Ca^{2+} mitocondriali nel controllo dell'omeostasi muscolare,
Mitochondrial Ca^{2+} signalling in muscle homeostasis;
K) Atrofia ed autofagia nelle miopatie umane,
Atrophy and Autophagy in human myopathies;
L) Regolazione dell'atrofia/ipertrofia del muscolo scheletrico: meccanismi energetici,
Regulation of muscle Atrophy/Hypertrophy: energetic mechanismsm;
M) Specializzazione e plasticità delle fibre muscolari scheletriche,
Specialization and plasticity of skeletal muscle fibers.