



Roberto Bottinelli, Carlo Reggiani (Eds.)

# Skeletal Muscle Plasticity in Health and Disease

From Genes to Whole Muscle

Series: Advances in Muscle Research

- Muscle plasticity is not issue restricted to specialists of muscle studies, but is important and interesting for a broad range of people working in medicine and biology
- Gives the most updated and comprehensive description of muscle plasticity
- Understandable also for non-specialist of the field
- A guide for people entering the field (PhD students for example)
- A help to people already active in the field to refresh and update their knowledge

2006, VIII, 368 p. With online files/update.

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The ability of striated muscle tissue to adapt to changes in activity or in working conditions is extremely high. In some ways it is comparable to the ability of the brain to learn. The interest in muscle adaptation is increasing in relation to the idea that physical fitness helps in the prevention of disease, may counteract the loss of physical performance and generally improves wellbeing. Plasticity is the word used since the late 1970's to indicate collectively all the processes and mechanisms which form the background of muscle adaptation. This book aims to provide a systematic updating of the available knowledge on molecular and cellular mechanisms, as well as on changes at whole muscle level. The book means to be a guide and a help for people who enter the field as PhD or medical students, but is also a tool for refreshing and updating knowledge for people already active in the field in basic sciences as well as in applied disciplines such as neurology, sports science and rehabilitation.

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