

International Symposium Molecular Therapy for Muscular Dystrophy

Organized by Teruo Shimizu and Ryoichi Matsuda

Sponsored by Muscular Dystrophy Group, The Ministry of Health, Labour and Welfare, Japan

November 26 (Tuesday) through November 27 (Wednesday), 2002.

Place: Gakushi-Kaikan

3-28 Kanda Nishiki-cho, Chiyoda-ku, Tokyo 101-8459, Japan

Phone# +81-3-3292-5936 <http://www.gakushikai.or.jp/facilities/index.html>

Program

November 26 (Tuesday), 2002

Chairpersons: Drs. Teruo Shimizu and Ryoichi Matsuda

- 9:30 Teruo Shimizu
(Department of Neurology and Neuroscience, Teikyo University School of Medicine, Tokyo 173-8605, Japan)
Opening remarks
- 9:45 Richard C. Strohman
(Department of Molecular and Cell Biology, Univ. of California, Berkeley, CA 94720-3206, USA)
Modern biology & medicine in crisis: Difficulties in, and new solutions to, understanding the origins of disease phenotype
- 10:30 H. Lee Sweeney
(Department of Physiology, University of Pennsylvania, Philadelphia, PA19104, USA)
Stop codon suppression for treatment of a subset of dystrophin mutations
- 11:30 Ryoichi Matsuda
(Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Tokyo 153-8902, Japan)
Negamycin can restore dystrophin in mdx muscles
- 12:15 Lunch

Chairpersons: Drs. Paul L. McNeil and Shigeo Ohta

14:00 Valerie Allamand
(INSERM U523, Institut de Myologie-Bâtiment Joseph Babinski, Groupe Hospitalier Pitié-Salpêtrière, 75651 Paris Cedex 13, France)
Ex vivo treatment of laminin alpha 2 chain-deficient myotubes with antibiotics forcing readthrough of premature stop codons

14:45 Elisabeth Barton
(Department of Physiology, University of Pennsylvania, Philadelphia, PA 19104, USA)
Systemic administration of L-arginine benefits skeletal muscle function in mdx mice

15:30 Coffee break

Chairpersons: Drs. Terrence Partridge and Shoichi Ishiura

16:00 Yoshihiro Kashiwaya
(Unit of Metabolic Control Laboratory of Membrane biology and biophysics/National Institutes of Alcohol abuse and Alcoholism /National Institutes of Health/Department of Health and Human Services, Rockville, MD 20852, USA)
To be announced

16:45 Shigeo Ohta
(Department of Biochemistry and Cell Biology, Institute of Gerontology, Nippon Medical School, Kanagawa, Japan)
Protein therapeutics by using the super anti-apoptosis factor FNK

17:30 Paul L. McNeil
(Department of Anatomy and Cellular Biology and Institute for Molecular Medicine and Genetics, Medical College of Georgia, Augusta, GA 30912-2000, USA)
How cells repair plasma membrane disruptions

18:30 Social hour

November 27 (Wednesday), 2002

Chairpersons: Drs. H. Lee Sweeney and Masafumi Matsuo

- 9:30 Ugo Carraro
(C.N.R. Institute of Neuroscience, Unit for Muscle Biology and
Physiopathology, c/o Department of Biomedical Sciences, Padua Medical
School, University of Padua, Italy)
Basics to gene therapy: Stage and quantify cell death and myogenesis in
muscular dystrophies
- 10:15 Naohiro Hashimoto
(Stem Cell Research Unit, Mitsubishi Kagaku Institute of Life Sciences,
Tokyo 194-8511, Japan)
Plasticity of muscle stem cells
- 11:00 Shin'ichi Takeda
(Department of Molecular Therapy, National Institute of Neuroscience,
National Center of Neurology and Psychiatry, Tokyo 187-8502, Japan)
New therapeutic approaches to dystrophin-deficient muscular dystrophy:
Overexpression of endogenous utrophin
- 11:45 Lunch
- Chairpersons: Drs. Ugo Carraro and Kiichiro Matsumura
- 13:00 Terence Partridge
(Muscle Cell Biology Group, MRC Clinical Sciences Centre, Hammersmith
Hospital, London, W12 0NN, UK)
Behavior of satellite cells in regenerating muscle and Correction of the
mutated dystrophin gene by casual and deliberate exon skipping
- 14:00 Masafumi Matsuo
(Division of Molecular Medicine, Kobe University Graduate School of
Medicine, Hyogo 650-0017, Japan)
Treatment of Duchenne muscular dystrophy with oligonucleotides against an
exonic splicing enhancer sequence
- 14:45 Tatsushi Toda
(Division of Functional Genomics, Department Post-Genomics and Diseases,
Osaka University Graduate School of Medicine, Osaka 565-0871, Japan)
Recent advances in Fukuyama CMD and muscle-eye-brain disease
- 15:30 Coffee break

Chairpersons: Drs. Elisabeth Barton and Shin'ichi Takeda

- 16:00 Shoichi Ishiura
(Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Tokyo 153-8902, Japan)
Direct evidence that RNA-binding proteins interact with CUG tri- and CCUG tetranucleotide repeats in myotonic dystrophy: its therapeutic implications
- 16:45 Kiichiro Matsumura (Department of Neurology and Neuroscience, Teikyo University School of Medicine, Tokyo 173-8605, Japan)
Disruption of dystroglycan axis by matrix metalloproteinase in cardiomyopathic hamster muscle
- 17:30 Ryoichi Matsuda
(Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Tokyo 153-8902, Japan)
Closing remarks

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