

24th Surugadai International Symposium
X
1st CURE International Symposium on Multilayered Stress Diseases
JOINT SYMPOSIUM

From Mechanosensing to Stress Responses: Deciphering Biological Regulation Across Molecular, Cellular, and Organismal Scales

Thursday, November 26, 2026 13:00-18:10

Akio Suzuki Memorial Hall M&D Tower 2nd floor, Institute of Science Tokyo
1-5-45 Yushima, Bunkyo-ku, Tokyo, Japan

13:00-13:05 Opening Remarks

Dr. Takehiko Sasaki (Director, Medical Research Laboratory, Institute of Science Tokyo)

Moderated by Dr. Fumika Koyano (Institute of Science Tokyo)

13:05-15:20 Session 1

Chaired by Drs. Katsumori Segawa and Toshiro Moroishi (Institute of Science Tokyo)

13:05-13:50 Keynote Lecture 1

Structural choreography and mechanogating of PIEZO channels

Dr. Bailong Xiao (Tsinghua University)

13:50-14:20 Talk 1

Activation Mechanisms of TMEM63B, a Mechanosensitive Lipid Scramblase

Dr. Yugo Miyata (Institute of Science Tokyo)

14:20-14:50 Talk 2

Dynamic Tissue Mechanics across Life Stages

Dr. Fumiko Toyoshima (Institute of Science Tokyo)

14:50-15:20 Talk 3

Born to Move: Mechanotransduction and the Biology of Athletic Giftedness

Dr. Hiroshi Asahara (Institute of Science Tokyo)

15:20-15:50 Coffee Break

15:50-18:05 Session 2

Chaired by Drs. Shusaku Uchida and Hiroki Shiwaku (Institute of Science Tokyo)

15:50-16:35 Keynote Lecture 2

From pecking order to ketamine: neural mechanism of emotion and social behavior

Dr. Hailan Hu (Zhejiang University School of Medicine)

16:35-17:05 Talk 4

Neuro-Immuno-Metabolic Mechanisms of Stress in Mental Illness

Dr. Tomoyuki Furuyashiki (Institute of Science Tokyo)

17:05-17:35 Talk 5

Sustaining microglial reparative function enhances stroke recovery

Dr. Jun Tsuyama (Institute of Science Tokyo)

17:35-18:05 Talk 6

The Channel Synapse: From Discovery to Biological Function

Dr. Akiyuki Taruno (Kyoto University)

18:05-18:10 Closing Remarks

Dr. Katsumori Segawa (Professor, Medical Research Laboratory, Institute of Science Tokyo)

Jointly organized by

The 24th Surugadai International Symposium Organizing Committee
and the CURE Multilayered Stress Diseases

CURE : Coalition of Universities for Research Excellence Program, MEXT Promotion of Development of a
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