Invited Speakers

Jennifer A. Doudna
University of California, Howard Hughes Medical Institute

“CRISPR Systems: Biology and Applications of Gene Editing”

Dr. Doudna, a UC Berkeley professor of molecular and cell biology and of chemistry and a Howard Hughes Medical Institute investigator, combines biochemistry and structural biology to understand the function of catalytic and other non-protein-coding RNAs, or ribonucleic acids. She has shown how these molecules carry out complex activities in cells and are uniquely capable of encoding and controlling the expression of genetic information.

Ongoing projects are focused on delivery of Cas9 protein-RNA complexes into specific tissues, as well as discovery of the mechanisms of target search and binding in live cells. We are also working on other aspects of CRISPR biology, including the pathway for acquisition of new sequences into CRISPR loci, and the structures and mechanisms of other CRISPR targeting complexes, including the RNA-targeting Cmr and Csm complexes.

Yoshizumi Ishino
Kyushu University

“Encounter with a mysterious repeated DNA sequence in 1986”

Asako Sugimoto
Tohoku University

“Revisiting the "multi-tubulin hypothesis" using CRISPR/Cas9 genome editing”

Mikiko Siomi
University of Tokyo

“piRNA biogenesis in Drosophila”

Masanobu Morita
Tohoku University

“CRISPR/Cas system reveals novel moonlight functions of mitochondrial proteins”

Sun. 29 July, 2018 13:00-17:30

Venue: Tohoku University Centennial Hall (Kawauchi Hagi Hall)

- Hosted by: Tohoku Forum for Creativity, Tohoku University
- Supported by: United Centers for Advanced Research and Translational Medicine (ART), Tohoku University Graduate School of Medicine, Tohoku Medical Society

More details on http://www.tfc.tohoku.ac.jp/5th-anniv/doudna/