

第45回テニユアトラック普及・定着事業若手セミナー
共催:つくば機能植物イノベーション研究センター・形質転換植物デザイン研究拠点

機能ゲノム研究の最前線

Frontier in functional genomic researches

Long Noncoding RNAs in Metabolic Homeostasis and Diseases

Long noncoding RNAs (lncRNAs) constitute a significant portion of mammalian genome, yet their physiological importance is largely unknown. In recent years, Dr. Cao's laboratory has demonstrated that lncRNAs regulate several critical aspects of energy metabolism. His group has also combined bioinformatics and experimental approaches to streamline the identification and analysis of functional lncRNAs in metabolic homeostasis. Very recently, his lab integrates GWAS and eQTL information to identify a list of cardiometabolic trait-associated human lncRNAs and demonstrates the functional importance of an obesity-associated lncRNA in vivo. These works collectively support that lncRNAs are an important class of metabolic regulators and also establish a framework for investigating lncRNA-mediated mechanisms of common human diseases.

Haiming Cao, Ph.D., Investigator

NHLB,
National Institute of Health

時間: 2019.03.11 PM2:00-3:00

場所: T-PIRC遺伝子実験センター 2F

世話人: 王寧 助教 (生物圏資源)

T E L: 7792



Discover biologically important long noncoding RNAs