



TARA

Life Science Center of
Tsukuba Advanced Research Alliance

TARA Seminar

16:30~17:30, Fri. Dec. 22, 2017
Seminar room, Building A, TARA Center

Dr. Koichiro Kuwahara

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Molecular Pathways Regulating Natriuretic Peptide Production Reveal Underlying Mechanisms of Heart Failure

Genetic remodeling contributes to the progression of heart failure by affecting myocardial cellular function and survival. Precise mechanisms controlling cardiac gene transcription still remain less understood, however. In the search of transcriptional regulation of atrial and brain natriuretic peptides (ANP and BNP, respectively), we revealed the involvement of several transcriptional pathways, including HDAC-NRSF, TRPC6-calcineurin-NFAT and Rho-MRTF-A-SRF pathways, in the pathological cardiac remodeling, and defined several downstream targets. Further investigation of molecular mechanisms underlying the production of natriuretic peptides will lead to the identification of novel therapeutic targets for heart failure.

The seminar will be given in English.

Organizer; Prof. Hiromi Yanagisawa <hkyanagisawa @ tara.tsukuba.ac.jp>

University of Tsukuba

