第170回細胞生物学セミナー　総合生命科学部 生命科学セミナー

演　者　：　Dr. Janine Kirstein
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日　時　：　2016年6月23日（木）15:00～16:30

場　所　：　京都産業大学総合生命科学部15号館1階　15102セミナー室
http://www.kyoto-su.ac.jp/access.html

演　題：　**Identification of distinct chaperone complexes that can suppress Htt fibril formation and can disaggregate Htt fibrils *in vivo* and *in vitro***

Protein aggregates are a hallmark of aging and neurodegenerative diseases and aging is a risk factor for the onset and manifestation of these neurodegenerative diseases. The decline in chaperone and proteolytic capacity during aging is believed to be a strong contributing factor. However little is known what exactly changes as aging progresses. We study the molecular chaperones that safeguard the proteome and combat aggregation of amyloid proteins *in vitro* and within the living cell and in an aging organism. The metazoan disaggregase is composed of members of Hsp70, J-protein and Hsp110 chaperone families. Little is known about the exact composition of disaggregase complexes. It might differ depending on the protein aggregate, cell and tissue type and developmental stage or progression of aging. We set out to identify and characterize distinct disaggregase complexes *in vivo* (*C. elegans* and human cell culture) and *in vitro* (human and nematode chaperones).

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