

88th WPI IIS Seminar

Distinct neural substrates for aggression and mating in female ventromedial hypothalamus

We challenged the 40 years of evidence suggesting ventromedial hypothalamus ventrolateral part (VMHvl) is functionally relevant for female sexual receptive behaviors, but not for female aggression. By optimizing behavioral paradigm for female aggression, we clearly demonstrate that VMHvl, especially its subpopulation expressing estrogen receptor α is essential for female aggression as males in ethologically relevant conditions. We further demonstrate that female aggression and mating behaviors are mediated by two distinct neural populations distributed in spatially segregated regions within the VMHvl. Our findings suggest that aggression and mating relevant populations are organized in sexually dimorphic architecture.



Speaker:

Dr. Koichi Hashikawa

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Date: Wednesday, September 21, 2016

Time: 16:00 - 17:00

**Venue: 1F Auditorium, IIS Building
University of Tsukuba**



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