日本プロダクティブ・エイジングアライアンス（JAPA）

第17回勉強会

Zoom 開催

Investigation of aging as a risk factor for late-onset neurodegeneration in directly reprogrammed human neuron models

2026年11月17日(火)10:30–12:00



講師 **Andrew S. Yoo, Ph.D.**

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プロフィール

Andrew S. Yoo, PhD, is the Philip and Sima K. Needleman Distinguished Professor of Developmental Biology at Washington University School of Medicine in St. Louis. His laboratory studies the molecular mechanisms that establish and maintain neuronal identity and develops direct cell-fate reprogramming approaches to investigate human neurological disease. A major focus of his work is the use of neuron-enriched microRNAs, including miR-9/9*-124, to directly convert human somatic cells into functional neurons without passage through a pluripotent stem-cell state. This approach preserves age-associated features of donor cells, providing a platform for studying how neuronal aging contributes to late-onset neurodegenerative disorders. His group has applied direct neuronal reprogramming to model adult-onset Huntington’s disease and Alzheimer’s disease, revealing age-dependent and disease-specific mechanisms that contribute to neurodegeneration. Current research in the Yoo laboratory integrates cellular reprogramming, functional genomics, epigenomics, proteomics, and disease modeling to define how age-associated changes in proteostasis, chromatin regulation, and neuronal homeostasis create vulnerability to neurodegeneration, with the long-term goal of identifying mechanisms that can be targeted to promote neuronal resilience.

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主催：日本プロダクティブ・エイジングアライアンス（JAPA）

共済：一般社団法人プロダクティブ・エイジング研究機構（IRPA）

参加申込

右のQRコードからお申し込みください

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