

# THE JOHN LAWRENCE SEMINARS



## "A SYSTEMIC APPROACH FOR REJUVENATING THE AGING BRAIN"

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Aging alters the regenerative capacity and functional integrity of the adult brain, steadily driving cognitive impairments and susceptibility to neurodegenerative disorders in healthy individuals. We and others have recently shown that systemic manipulations such as heterochronic parabiosis or young plasma administration can partially reverse age-related hallmarks in the aged brain. Interestingly, heterochronic parabiosis studies have revealed an age-dependent bi-directionality in the influence of the systemic environment, indicating pro-youthful factors in young blood elicit rejuvenation while pro-aging factors in old blood drive pre-mature aging. It has been proposed that mitigating the effect of pro-aging factors in old blood may also provide an effective approach to rejuvenate aging phenotypes. These findings promote strategies altering both systemic pro-youthful or pro-aging factors as exciting new approaches for brain rejuvenation.

**TUES., FEB. 23<sup>RD</sup>**  
**4:00 P.M.**

**717 POTTER STREET**  
**ROOM 141**  
**BERKELEY LAB**

**HOST:**  
**KRISTOFER BOUCHARD**

Schedule of Seminars: <http://johnlawrenceseminars.lbl.gov>  
Non-LBNL attendees: please RSVP to [FGuagliardo@lbl.gov](mailto:FGuagliardo@lbl.gov) or 510-486-6490