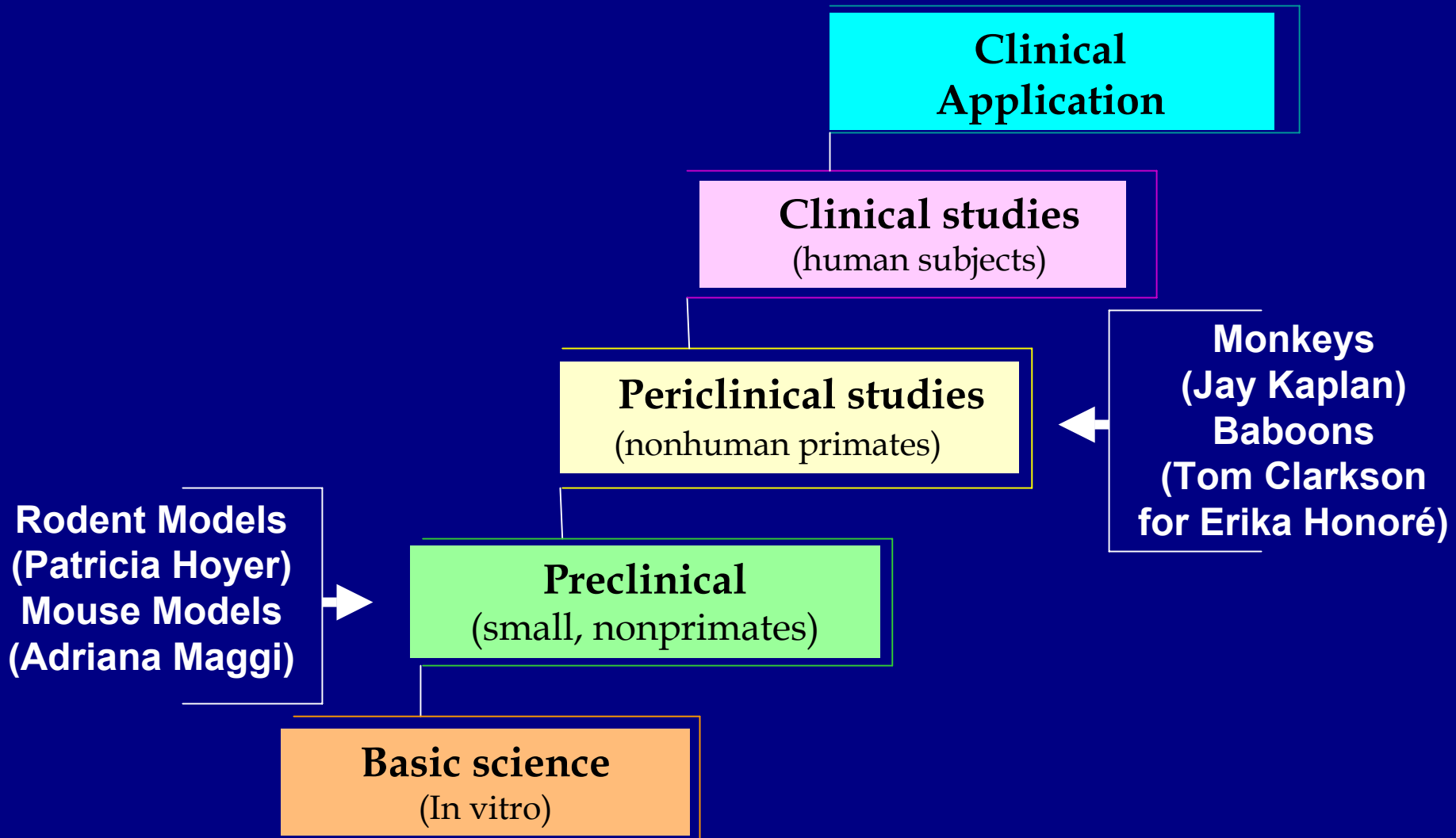


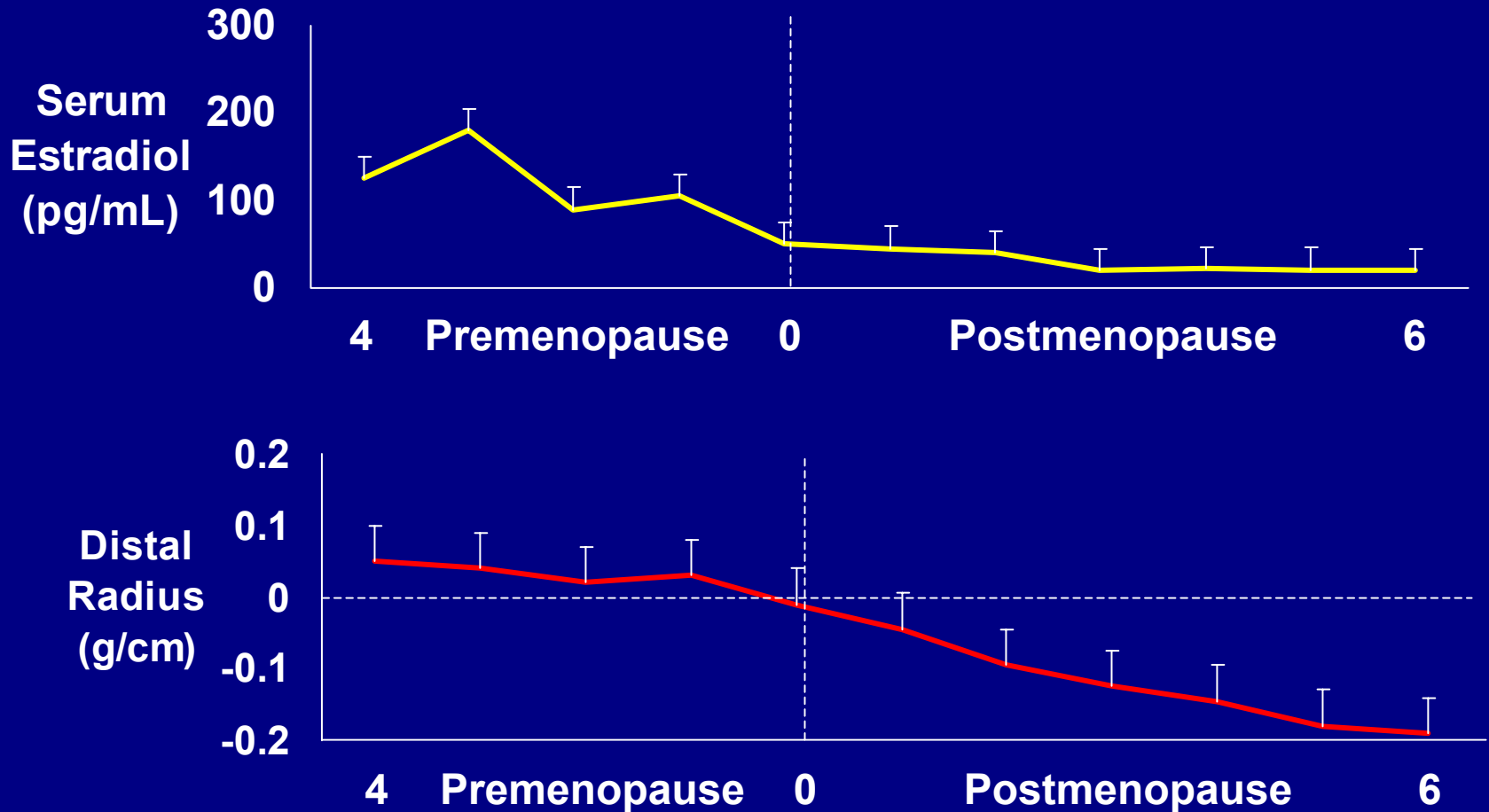
Where do Animal Models Fit in the Continuum of Research on Women's Health (Perimenopausal Transition)??



What Are The Comparative Challenges to a Better Understanding of the Perimenopausal Transition??

- How do we best model the perimenopausal transition??
- Role of genetic modulation, endocrine – cellular pathogenetic events
- Elucidation of role of declining estradiol production in the antecedents of the chronic diseases of ageing

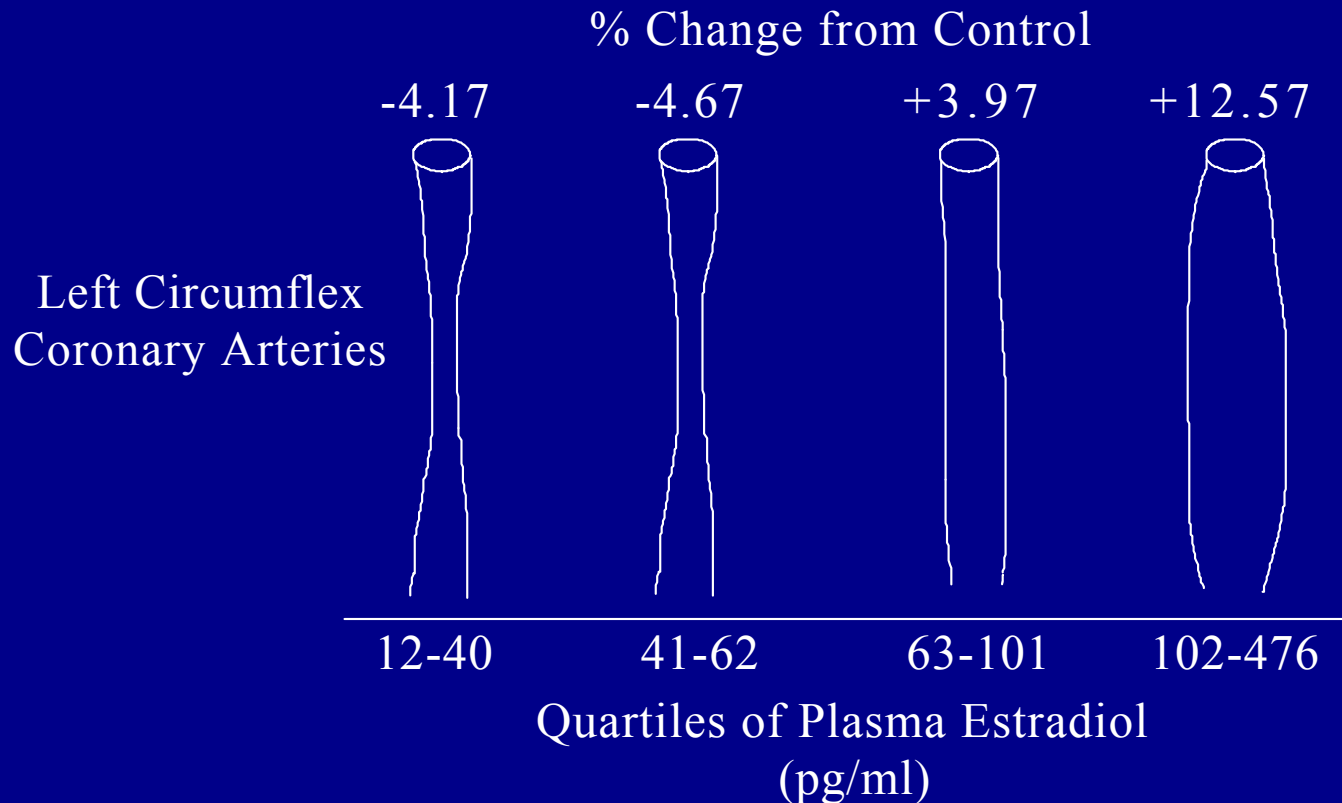
Does Declining Estradiol Production Precede Detectable Osteopenia??



Adapted from Falch et al. 1987 and Ettinger 1988

Does Declining Estradiol Production Initiate Pathogenetic Changes in Arterial Function Leading to a More Rapid Progression of Atherosclerosis??

Association Between Plasma Estradiol and Coronary Artery Vasodilator/Constrictor Response to Acetylcholine*



*Adapted from Williams, et al., Circulation 86(4):I-831, 1992.

Is the Perimenopausal Transition The “Window of Opportunity” For Estrogen Benefits on Declining Cognitive Function??

- Women that begin HT during the menopausal transition have better memory scores than women who begin after the first missed period.

Henderson et al, Neurology, 2003

- Among rats, estrogen effects are evident only when the interval between OVX and estrogen Tx is short.

Gibbs, Neurobiol Aging, 2000