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VA Greater Los Angeles Healthcare System
Sepulveda & West Los Angeles Division
Geriatrics, Research, Education Clinical Ctr.
Associate Director Research

UCLA
David Geffen School of Medicine
Departments of Medicine & Neurology
Associate Professor in Residence
Director, Alzheimer's Disease Center

Primary Research Interests:

- Alzheimer's Disease
- Brain aging
- Oxidative Damage
- Inflammation

Primary Research Methodologies:

- Basic sciences

Primary Teaching Activities:

- Brain Matters Lecture Series (Alzheimer's Affinity Group), 1998-present, (Neurology Department)
- Alzheimer Journal Club- Sepulveda 2002- present

Current Aging-related Research Interests:

- Biology of Aging, Neurological and Behavioral Sciences

Current Research and Training Grants in Aging:

- Mechanisms of Plague Pathogenesis in Alzheimer's Disease (4/1/1999-3/31/2004)
- Antioxidant-antiinflammatory treatment in an Alzheimer's model (7/01/01-6/30/03)
- Preventing Synapse Loss in an Animal Model for Alzheimer's (8/1/99-7/31/2002)
- Lipoprotein Dependent A β Deposition in Transgenic Mice (4/1/1999-3/31/2004)
- Amyloid vaccine removal mechanism: synaptic marker loss (9/01/01-8/30/06)
- NSAID Inhibition of Microglial activation and Alzheimer pathology (07/01/01-8/30/04)

Recent Publications:

- Frautschy SA, Horn DL, Yang F, Mendoza JJ, Sigel JJ, Harris-White ME, Cole GM. Protease inhibitor co-infusion with amyloid β -protein results in enhanced deposition and toxicity in rat brain. *Journal of Neuroscience*. 1998, 18:8311-8321.
- Cummings JL, Vinters HV, Cole GM, Khachaturian ZS. Alzheimer's Disease: Etiologies, pathophysiology, cognitive reserve, and treatment opportunities. *Neurology*. 1998, 51(S1):s2-s17.
- Frautschy SA, Yang F, Irrizarry M, Hyman B, Saido TC, Hisao K, Cole GM. The microglial response to amyloid plaques in APPsw transgenic mice. *American Journal of Pathology*. 1998, 152:307-317.
- Hsiao K, Chapman P, Nilsen S, Echman C, Younkin S, Cole GM. Measuring memory in a mouse model of Alzheimer's Disease. *Science*. 1997, 277:840-841.

Clinical Work:

- Clinical trial of curcumin in Alzheimer's Disease patients with J. Cummings and J. Ringman at the UCLA Alzheimer Center, 2004-2005.