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## William T. Regenold, MDCM

Academic Title:

Associate Professor

Primary Appointment:

Psychiatry

Administrative Title:

Division Head, Geriatric Psychiatry; Acting Division Head, Adult Psychiatry

Additional Title:

Director, Division of Geriatric Psychiatry, Adult Inpatient Service and Electroconvulsive Therapy Service

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## Education and Training

1977-1981, Miami University, BA, Philosophy

1985-1989, McGill University, MDCM

1989–1990, Johns Hopkins Bayview Medical Center, Internship

1990–1993, Johns Hopkins Hospital, Psychiatry Residency

1992, Maudsley Hospital, Old Age Psychiatry training

## Biosketch

I am a psychiatrist who is certified in general adult psychiatry and geriatric psychiatry by the American Board of Psychiatry and Neurology. My clinical work mostly involves older adults and adult inpatients. Although I see patients with a variety of psychiatric problems, I am particularly interested in patients whose psychiatric problems are associated with medical or neurological disorders. I also consult on patients of any age who are considering electroconvulsive therapy (ECT), and I perform ECT at the University of Maryland Medical Center.

My current areas of research interest include: the mechanisms of action of ECT; brain energy metabolism in neuropsychiatric disorders, including bipolar disorder, schizophrenia, and major depression; white matter disease in neuropsychiatric disorders, and biological markers and novel treatments for neuropsychiatric disorders, including major depression, bipolar disorder and Alzheimer's disease.

## Research/Clinical Keywords

old age, geriatric, electroconvulsive therapy, bioenergetics, mitochondrial disorders, white matter disease, Alzheimer's disease, dementia, neurocognitive disorders, bipolar disorder, major depression, vitamin B12

## Highlighted Publications

Regenold WT, Pratt M, Nekkhalapu S, Shapiro PS, Kristian T, Fiskum G: Mitochondrial detachment of hexokinase 1 in mood and psychotic disorders: Implications for brain energy metabolism and neurotrophic signaling. *J Psychiatr Res*, 46 (1): 95–104, 2012.

Lachner C, Steinle N, Regenold WT: The Neuropsychiatry of Vitamin B12 Deficiency in the Elderly. *J Neuropsychiatry Clin Neurosci*, 24 (1): 5–15, 2012.

Klinedinst NJ and Regenold WT: A mitochondrial bioenergetic basis of depression. *J Bioenerg Biomembr*, 47(1-2):155–71, 2015.

Regenold WT, Noorani RJ, Piez D, Patel P: Nonconvulsive electrotherapy for treatment resistant unipolar and bipolar major depressive disorder: a proof-of-concept trial. *Brain Stimul*, 8(5):855–61, 2015.

Regenold WT, Blumenthal JB, Loreck DJ, Mordecai KL, Scarinzi G MS, Doddi SR, Adler L: Elevated plasma A $\beta$ 42 in cognitively impaired individuals taking ACE inhibitor antihypertensives. *Am J Alzheimers Dis Other Demen*, doi: 10.1177/1533317517707288, 2017

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