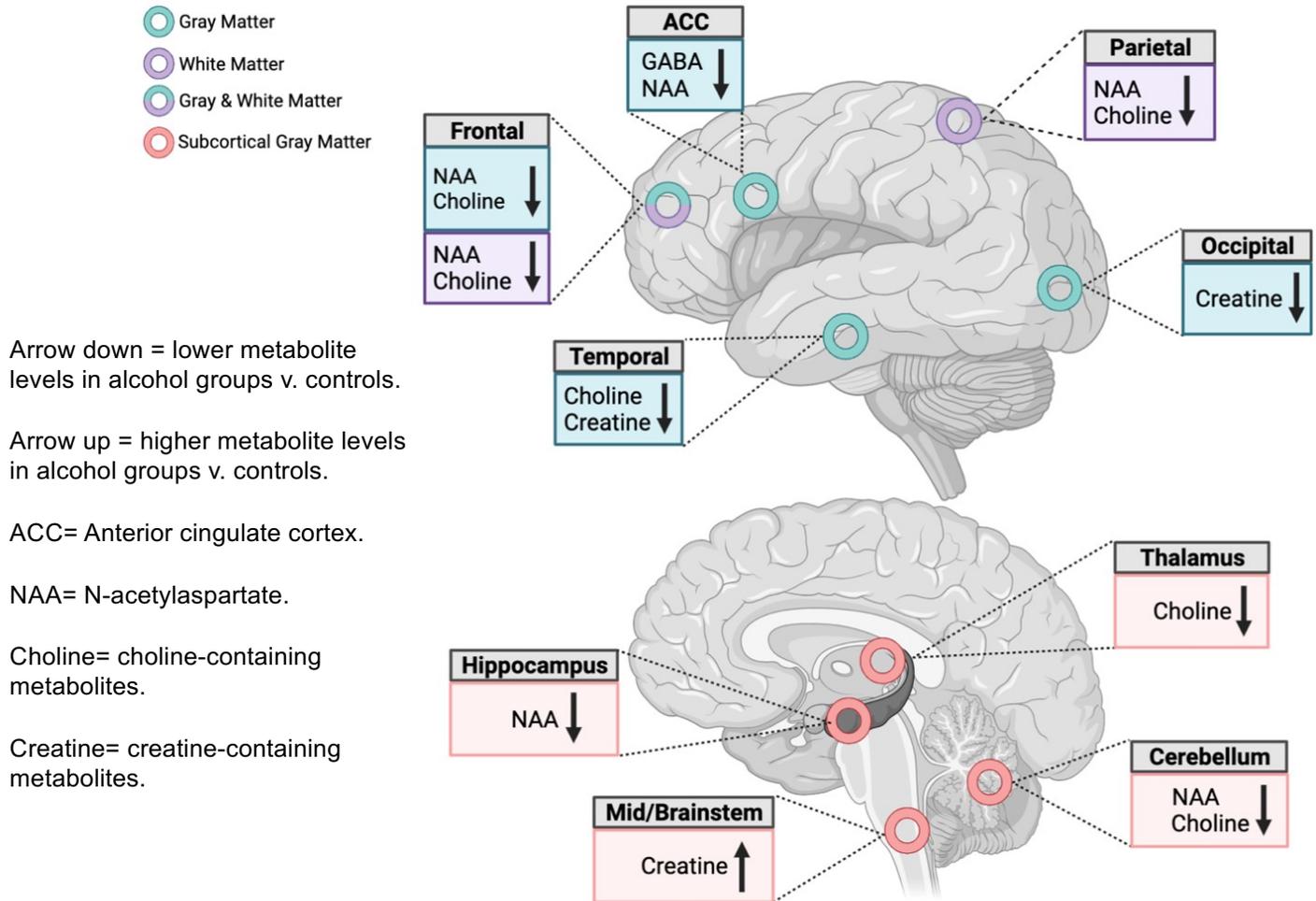# CBI Featured Image – Spring, 2022

Courtesy of Anna Kirkland, Ph.D., Squeglia Lab and Youth Collaborative, Department of Psychiatry and Behavioral Sciences, Addiction Sciences Division

Alcohol misuse and alcohol use disorder (AUD) have neurobiological consequences. This meta-analysis of proton magnetic resonance spectroscopy (MRS) studies aimed to assess the effects of alcohol misuse and AUD on brain metabolite levels relative to controls (PROSPERO registration: CRD42020209890). Hedgeís g with random-effects modeling was used. A comprehensive literature review identified 43 studies, resulting in 69 models across gray and white matter. This figure shows the overall significant results across all brain regions and metabolites.