

# *Webinar by Elkhonon Goldberg, PhD*

## **WEBINAR "EXECUTIVE FUNCTIONS AND THE FRONTAL LOBES"**

Executive functions represent the highest level of cognitive control and involve goal formation, planning, mental flexibility, impulse control, working memory. Executive functions are mediated by the prefrontal cortex and related structures. In this webinar we will examine their cognitive composition, neural mechanisms, changes throughout the lifespan, and gender differences. We will also examine the role of executive functions in creativity and their relationship to intelligence.

### **Date and time:**

April 8, 2021 (Thursday) from 2pm to 5:15pm Eastern Time (1pm – 4:15pm Central Time, 11am – 2:15pm Pacific Time)

April 17, 2021 (Saturday) from 12pm to 3:15pm Eastern Time (11am – 2:15pm Central Time, 9am – 12:15pm Pacific Time)

### **Topics to be covered:**

Executive functions and frontal-lobe functions: are they the same?

Components of executive functions (planning, impulse control, working memory, and others).

Novel approaches to understanding the frontal-lobe functions.

Frontal lobes and large-scale networks (Central Executive, Default Mode, and others).

Executive functions and laterality.

Executive functions and sex differences.

Regulation of emotions: frontal lobes and amygdala.

Executive functions in creativity and intelligence.

Executive functions in development and aging.

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### **ABOUT THE INSTRUCTOR**



The webinar will feature Elkhonon Goldberg, Ph.D., ABPP., a clinical neuropsychologist and cognitive neuroscientist, Clinical Professor in the Department of Neurology, NYU School of Medicine and Diplomate of The American Board of Professional Psychology in Clinical Neuropsychology.

Elkhonon Goldberg, Ph.D., ABPP authored numerous research papers on functional cortical organization, hemispheric specialization, frontal lobe functions and dysfunction, memory and amnesias, traumatic brain injury, dementias, and schizophrenia. Goldberg's books *The Executive Brain* (2001), *The Wisdom Paradox* (2005), and *The New Executive Brain* (2009) have met with international acclaim. He coauthored *The SharpBrains Guide to Cognitive Fitness* (2013). He was a student and close associate of the great neuropsychologist Alexander Luria.

Dr. Goldberg's more recent books are:

1. **Creativity: The Human Brain in the Age of Innovation** (Oxford University Press, 2018)
2. **Executive Functions in Health and Disease** (Academic Press, 2017)