

Richard A. Dienstbier

Food for thought

Nutrition and the aging brain

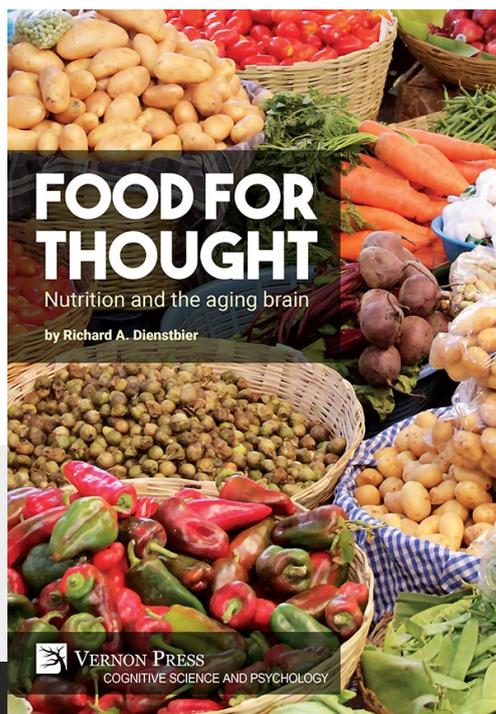
COGNITIVE SCIENCE AND PSYCHOLOGY

Summary

“Food for Thought: Nutrition and the Aging Brain” presents and analyzes the research on nutrition’s impacts on the aging brain, on possibly-declining cognitive abilities, and on changing emotional dispositions. With 40 pages of references, the depth of coverage of the underlying science makes the book appropriate for scientists in fields such as nutrition, geriatrics, and psychology. However, the book was also designed to be understandable for lay readers wanting a deeper understanding than can be found in typical books on food-brain relationships. To make this book useful for non-scientists and for students, the first three chapters provide background. They sketch relevant brain structure and neurochemistry, and then discuss in only slightly more detail how aging and stress affect neurochemistry, brain structure, cognitive capacities, and resilience. The third chapter introduces basic nutrition research issues, and the extensive Glossary provides additional explanations of scientific concepts.

The subsequent 14 chapters consolidate modern research on impacts of nutrition on brain and cognitive capacities. The research shows how much various nutrients can affect cognition in aging people, and then how those impacts are achieved—that is, how genes are affected that in turn have impacts on neural structures and neurochemistry. That series of 14 chapters begins with analyses of general diets such as the Mediterranean and the MIND, but subsequent chapters examine impacts of specific classes of nutrients. Chapter 18 describes nutrition that affects resilience, interpreted as stress tolerance, and resistance to both anxiety and depression. Chapter 19 describes how other types of activities that affect brain and cognition, such as programs of physical exercise and cognitive stimulation,

can interact with nutrition to build brain and sharpen cognition. The final chapter summarizes the information on nutrition impacts on brain and cognition, and extends the discussion of interactions of nutrition with other brain-enhancing activities.



About the author

After receiving his PhD in Social Psychology from the University of Rochester, **Dienstbier** joined the Psychology Department of the University of Nebraska, where he has spent his entire professional career. He served as the Head of that Social-Personality program and (for 8 years) as Psychology Department Chair. He was the Series Editor of the annual Nebraska Symposium on Motivation. He is now Professor Emeritus of Psychology.

Dienstbier’s interests in aging, stress, and emotion led to research and to graduate courses in research methods, emotion, and stress, with emphasis on how programs of regular exercise, mental stimulation, meditation, and even some social activities lead to modifications to both neurochemistry and neural structures. Those physiological modifications slow and even reverse the negative impacts of stress and aging on the brain, resulting in enhanced cognitive capacities and even resilience.

That research was supported by a grant from the National Institutes of Mental Health, and it ultimately led to his 2015 book “Building resistance to stress and aging: The toughness model” (published originally by Palgrave Macmillan, now Springer). Although that book described how much activities such as physical exercise and cognitive stimulation contribute to cognitive capacities and resilience, and how they lead to those benefits, an obviously missing piece was the contribution of nutrition to preserving cognitive capacity and resilience, especially in older people. Recognizing the importance of that missing element of nutrition led to research on how much and how major dietary programs and individual nutrients lead to the modifications to neurochemistry and neural structures that ultimately preserve cognition, defend against dementia, and lead to psychological resilience.

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