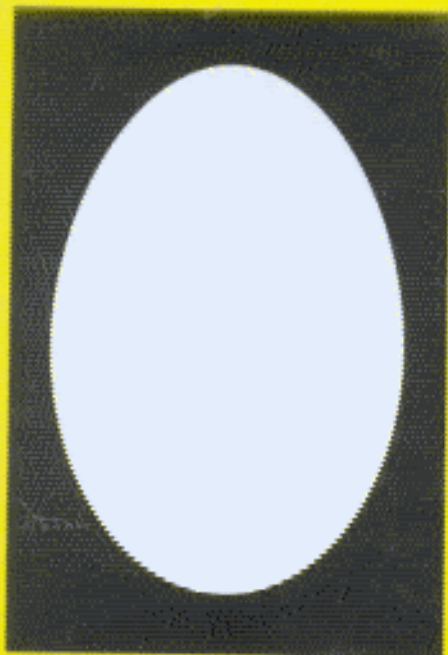


# **Eggs and Health Promotion**

Edited by Ronald Ross Watson



# Contents

Preface, vii

Acknowledgments, ix

Contributors, xi

## Section 1. Functional Uses of Eggs

1. *Functional Uses of Eggs—An Overview*, 3  
W.J. Stadelman and Hubert Schmieder
2. *The Role of Eggs in American Diets: Health Implications and Benefits*, 9  
Jean M. Kerver, Yikyung Park, Won O. Song
3. *Designer Eggs: Nutritional and Functional Significance*, 19  
Jeong S. Sim and Hoon H. Sunwoo
4. *Specialty Eggs: n-3 Fatty Acid–Enriched Eggs*, 37  
Elizabeth H. Sheppard
5. *Vitamin E Enrichment of Chicken Eggs*, 45  
Zeina Makhoul
6. *Reducing Infection in Infants with Egg Phospholipids* 55  
Yingying Liu and Ronald Ross Watson
7. *Generation of Polyclonal Antibodies in the Egg Yolk*, 61  
Max Gassmann

## Section 2. Cholesterol and Health: Role of Eggs

8. *Eggs, Plasma Cholesterol, and Heart Disease Risk*, 71  
Donald J. McNamara
9. *Eggs and Health: Myths and Misconceptions*, 83  
Simin Bolourchi Vaghefi

10. Effect of Dietary Eggs on Human Serum Cholesterol and Coronary Heart Disease, 101  
Yinhong Chen and Ronald Ross Watson
11. Eggs and Saturated Fats: Role in Atherosclerosis as Shown by Animal Models, 111  
Thomas A. Wilson and Robert J. Nicolosi
12. Health Effects of Docosahexanoic Acid (DHA)-Enriched Eggs, 123  
Jin Zhang and Ronald Ross Watson
13. The Correlation between Cholesterol Oxidation Products and Eggs, 133  
Jennifer J. Ravia and Ronald Ross Watson

### **Section 3. Eggs and Disease: Health Promotion**

14. Whole Eggs: The Magic Bullet? 141  
H.L. "Sam" Queen
  15. Enriched Eggs for Human Consumption and the Feeding Pattern of Layers, 155  
Carola García, Sergio Cornejo, and Cecilia Albala
  16. Predictability of Respiratory Atopy from Egg Hypersensitivity in Children, 171  
Kelly Blackstock
  17. Effects of Cooking and Storage on the Nutritional Value of Eggs, 177  
Giorgio Bedogni and Nino Carlo Battistini
  18. The Potential Use of Eggs for the Protein Requirements of Endurance Exercise, 185  
Jaclyn Maurer
- Index, 193