

Contents

VI Preface

Robert, L. (Paris); Fulop, T. (Sherbrooke, Que.)

1 The Commitment of Human Cells to Senescence

Holliday, R. (Canberra)

8 Evolutionary Theories of Aging Can Explain Why We Age

Le Bourg, E. (Toulouse)

24 Control of Cell Replication during Aging

Macieira-Coelho, A. (Versailles)

45 Cell Senescence: Role in Aging and Age-Related Diseases

Campisi, J. (Novato, Calif.); Robert, L. (Paris)

62 Aging of Cell Membranes: Facts and Theories

Zs.-Nagy, I. (Debrecen)

86 Oxidative Stress, Mitochondrial Dysfunction and the Mitochondria Theory of Aging

Kong, Y.; Trabucco, S.E.; Zhang, H. (Worcester, Mass.)

108 Aging of Connective Tissues: Experimental Facts and Theoretical Considerations

Labat-Robert, J.; Robert, L. (Paris)

142 Aging of Cell Communication: Loss of Receptor Function

Robert, L. (Paris); Fulop, T. (Sherbrooke, Que.)

163 On the Immunological Theory of Aging

Fulop, T. (Sherbrooke, Que.); Witkowski, J.M. (Gdansk); Pawelec, G. (Tübingen);
Alan, C. (Sherbrooke, Que.); Larbi, A. (Singapore)

177 Aging of the Brain, Dementias, Role of Infectious Proteins: Facts and Theories

Morinet, F. (Paris)

187 Aging as Alteration

Miquel, P.-A. (Toulouse)

198 Longevity and Its Regulation: Centenarians and Beyond

Robert, L. (Paris); Fulop, T. (Sherbrooke, Que.)

212 Subject Index