Further Section

Gerontology 1992;38:241-244

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Giuseppe Nappi, Emilia Martignoni, Andrea R. Genazzani, Felice Petraglia (eds)
Stress and the Aging Brain
ISBN 0-88167-700-0

The book contains the proceedings of the symposium ‘Advanced Seminar on Stress and Aging

Contents
Adaptive Responses to Stress: Neuroendocrinology P.M. Plotsky: Noli Disturbare Circulos
Meos: Integrative Role for CRF in Organization of the Stress Response; R.L. Spencer: Stress-
Induced Changes in the Brain: Implications for Aging; A.R. Genazzani: Changes of Stress-
Related Responses in Postmeno-pausal Women; E. Ferrari: Age-Related Changes of the
Pituitary-Adrenal Axis in Humans; F. Petraglia: Reproductive Function and Endocrine
Responses to Stress, and V. Montanini: Chronobiological Hormonal Profile of the Reproductive
System in Male Aging.

Stress, Memory, and Behavior
C.E. Finch: Molecular Mechanisms in the Neurobi-ology of Stress: Analysis of Corticosterone-
Responsive mRNA from Rat Hippocampus; F. Battaini: Stressful Conditions and Brain
Transducing Mechanisms During Aging; G. Nappi: Aging and Dementia: Markers of the
Hypothalamus-Pituitary-Adrenal Axis and Sympathetic Activities in Biological Fluids; L.
Parnetti: DST in a Geriatric Population: Clinical and Neuroendo-crine Significance; M.
Fioravanti: Psychological Aspects of Stressful Stimulations; R. Belle Chiaie: Psy-
choneuroendocrine Reactivity in the Aged: A Controlled Study, and M. Calvani: Acety-
L-Carnitine in pathological Aging Brain.

Stress Modulation of the Brain-Immune Axis D.L. Bellinger: Noradrenergic and Peptidergic
Neural-Immune Interactions in Aging; H. O. Besedovy: Interactions between Immunological
Cells and the Hypothalamus-Pituitary-Adrenal Axis: An Example of Neuroendocrine
Immunoregulation; W. Pierpaoli: The Pineal Gland and Melatonin: The Aging Clock? A
Concept and Experimental Evidence; C. De Simone: Effects of Substance P on Host-Parasite
Interactions; C Franceschi: Aging and Cellular Defense Mechanisms; A.E. Panerai: Effect of
Aging and Pharmacological Treatments on Neuropeptides in Immune Cells, and P.L. Meroni:
Age-Associated Immune Defects: From Animal to Human Models.

E. Kitani
Liver and Aging – 1990
230.00 ISBN 0-444-81388-8

The book contains the proceedings of the 4th Tokyo Symposium on Liver and Aging, held in
Tokyo, Japan, on August 15-17, 1990.

Contents
Session 1 – Drug Metabolism 1
(Modifications in Rodent Livers)

Session 2 – Drug Metabolism 2
(Rodents vs. Primates)

Session 3 – Phase II Reactions and Drug Toxicity
L.E. Rikans: Age-Related Differences in the Susceptibility to Drug-Induced Hepatotoxicity, and M.-C. Carillo: Different Responses of Subunit Concentrations and Enzyme Activities of Glutathione S-Transferases (GSTs) to Protein-Free Diet (PFD) between Young and Old Rodent Livers.

Session 4 – Age Pigments and Protein Turnover

Session 5 – Bile and Bile Salts

Session 6 – Protein Synthesis and Acute Phase Response

Session 7 – Enzyme Induction and Alterations

Session 8 – Endotoxin and EFG
A. Brouwer: The Role of Biological Response Modifiers in the Diminished Homeostatic Control of Old Rats after Endotoxin Administration, and G. Bland: Decreased Liver DNA Synthesis in Old Rats following Partial Hepatectomy is Restored by Epidermal Growth Factor.

Session 9 – Membranes and Membrane Proteins
S. Ericsson: Influence of Age on Plasma Low Density Lipoprotein Metabolism in Man, and K. Kitani: Age-Induced Restricted Mobility of Proteins in Hepatocyte Surface Membranes: A Possible Determinant of Membrane Transport Function.

Session 10- Mechanisms of Aging
I. Zs.-Nagy: A Review on the Recent Advances in the Membrane Hypothesis of Aging; A. Ayala: Liver Cytochrome P-450 Detoxification System: Possible Role in Human Aging and
Longevity, and M. Inoue: Role of Interorgan Metabolism and Transport of Glutathione in the Regulation of Circulatory Status.

L.A. Gavrilov, N.S. Gavrilova The Biology of Life Span: A Quantitative Approach

Now in English for the first time and considerably revised and updated since the Russian edition, this book summarizes the most significant facts and ideas on the phenomenon of finite life span. Its interdisciplinary approach is based on the quantitative analysis of survival regularities in human populations and in animal models. The survival analysis is shown to be of major significance in tackling a wide range of problems such as whether life span is programmed or not; whether there is an absolute superior limit for the duration of life; what is the relative role of social and biological factors for human life span; why do women live longer than men, and what are the prospects and ways of life span prolongation.

This book will be of interest to a wide range of readers, but in particular to researchers, graduates and teachers in the fields of biology, gerontology and demography. It is also recommended as a supplementary text for courses and seminars of gerontology, ecology and demography.

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Partial Contents and Chapter Headings
Introduction: Why is it Necessary to Study Life Span; The Present State of the Discipline; Individual Differences in Lifetime: The Nature of Variability in Lifetimes; In Search of the Life Span Distribution Law; The Gompertz-Makeham Law Unresolved Issues and Problems; The Human Life Span: Regularities of Human Mortality; The Epidemiological Approach to Studying the Biology of the Human Life Span; Prospects for Human Life Span Extension; Species-Specific Life Span: Is There a Species-Specific Life Span Limit; The Concept of Species-Specific Life Span Invariants; The Strehler-Mildvan Correlation; The Compensation Effect of Mortality; The Search for the Life Mechanisms Which Determine Life Span: A Self-Destruction Program of Wear and Tear; Analysis of Inter-Species Differences in the Duration of Life; Analysis of Sex Differences in Lifetimes; Experiments in Life Extension; The Limit of Cell Division: The Key to the Mechanism Which Determines Life Span; Reliability Theory: The Mechanisms Which Determine Life Span; Mathematical Models of Life Span: The Model of a Multiply Redundant System Saturated with Defects; The Model of Accumulation of Defects with Constant Intensity of the Flow of Damage; The Problem of Diversity of Causes of Death and Their Interaction; Conclusion; Appendix 1; Appendix 2; References and Subject Index.
Ronald W. Toseland
Group Work with Older Adults
The book is designed as a practical guide for students and practitioners who want to improve their skills in working with groups of older adults.
Contents
Part 1: Foundation Knowledge. (1) Working with Older Adults in Groups; (2) Facilitating Therapeutic Group Dynamics; (3) Leadership Skills, and (4) Phases of Group Development.


T. Nagatsu, O. Hayaishi

Aging of the Brain
Taniguchi Symposia on Brain Sciences, vol. 13 Karger, Basel 1990
X + 302 pp.; SFr. 168.-/DM 201.-/E 73.10 ISBN 3-8055-5334-X


Contents

Brain Aging
J.E. Seegmiller: Normal and Pathological Aging; Y. Watanabe: Positron Emission Tomography Studies on Dopamine and Prostaglandin Systems in the Brain with Special Reference to Aging; J.E. Adler: Neuro-transmitter Plasticity in Aging Neurons; R.L. Spencer: Neuroendocrinology of Stress and Aging; N. Kaneda: Molecular Biological Approaches to Catecholamine Neurotransmitters and Brain Aging; F.H. Gage: Grafting Genetically Modified Cells to the Brain; K. Uchida: Transfection of Tyrosine Hydroxylase cDNA into Non-Neuronal Cells: Application for Intracerebral Grafting; P.A. Walicke: Heterogeneity of Receptors for Basic Fibroblast Growth Factor on Mesenchymal Cells, Astrocytes and CNS Neurons; K. Fujimoto: Cholinergic Hypothesis of the Memory: Roles of the Cholinergic Pedunculopontine Nucleus in Memory Acquisition of the Rat, and T. Nagatsu: Normal Brain Aging versus Pathological Brain Aging – Similarity and Dissimilarity between MPTP Parkinsonism and Parkinson’s Disease in Relation to Brain Aging.

Alzheimer’s Disease


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Announcement
Charles E. Culpeper Foundation Scholarships in Medical Science
The Charles E. Culpeper Foundation is pleased to announce the continuation of a scholarship program to support the career development of academic physicians. Nominations will be accepted until August 14, 1992. Up to three awards of $100,000 per year for up to 3 years will be made to United States medical schools on behalf of candidates who are US citizens, who received their MD degree from a US medical school in 1984 or later, and who are judged worthy of support by virtue of the quality of their research proposals and their potential for successful careers in academic medicine. Awards will be announced before January 15, 1993, for activation on or about July 1, 1993.

Application forms and instructions may be obtained by writing to:
Charles E. Culpeper Foundation
Financial Centre
695 East Main Street
Suite 404
Stamford, CT 06901 (USA)
Tel: 203/975-1240
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