



REVIEW ARTICLE

Endoplasmic reticulum stress signalling – from basic mechanisms to clinical applications

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¹ Apoptosis Research Centre, National University of Ireland, Galway, Ireland² Department of Chemistry and Molecular Biology, University of Gothenburg, Göteborg, Sweden³ Pandion Teoranta, Dungloe, County Donegal, Ireland⁴ INSERM U1042, Université Rennes, France⁵ Centre de Lutte Contre le Cancer Eugène Marquis, Rennes, France⁶ Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, ALMA Research Centre, Vienna, Austria⁷ Institute for Experimental Cancer Research in Paediatrics, Goethe-University, Frankfurt, Germany⁸ Neurogenetics Group, Division of Brain Sciences, Faculty of Medicine, Imperial College London, UK⁹ Department Cellular and Molecular Medicine, Laboratory of Cell Death and Therapy, KU Leuven, Belgium¹⁰ Cell Death Regulation Group, Oncobell Program, Bellvitge Biomedical Research Institute (IDIBELL), Barcelona, Spain¹¹ Institute of Cell Biology and Immunology, University of Stuttgart, Germany**Keywords:**

endoplasmic reticulum; protein folding; signalling pathway; stress

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The endoplasmic reticulum (ER) is a membranous intracellular organelle and the first compartment of the secretory pathway. As such, the ER contributes to the production and folding of approximately one-third of cellular proteins, and is thus inextricably linked to the maintenance of cellular homeostasis and the fine balance between health and disease. Specific ER stress signalling pathways, collectively known as the unfolded protein response (UPR), are required for maintaining ER homeostasis. The UPR is triggered when ER protein folding capacity is overwhelmed by cellular

Abbreviations:

Δ-PKA, 4-phosphoryltyrosine acid; ALS, amyotrophic lateral sclerosis; ATF4, activating transcription factor 4; ATREB1, cytosolic domain of ATREB; ATREB2, activating transcription factor 6 α; ATF6α, activating transcription factor 6 β; BISF2007, cAMP responsive element-binding protein 3-like 2; BiP, binding immunoglobulin protein (gene: GRP78); bZIP, basic-leucine zipper; CHOP, CAAT/enhancer-binding protein (C/EBP)-homologous protein; CRMP1, chondroitin sulphatase; CRPESL3, cAMP responsive element-binding protein 3-like 3; CREB, cAMP response element-binding protein; eIF2α, eukaryotic translation initiation factor 2α; eIF2β, eukaryotic translation initiation factor 2β; ERAD, ER-associated protein degradation; ER, endoplasmic reticulum; ERIN1, endoplasmic reticulum-to-nucleus signalling 1; ERIN2, endoplasmic reticulum-to-nucleus signalling 2; ERα/1, ER co-factor 1; ERαs, coestrogen receptor α; GADD34, growth arrest and DNA-damage-inducible 34; GRP78, glucose-regulated protein 78; GSHP, glutathione-SBD, inflammatory bowel disease; IRE1α, inositol-requiring enzyme 1 α; IRE1β, inositol-requiring enzyme 1 β; LUMAN, cAMP responsive element-binding protein 3 or CREB3; MAM, mitochondrial-associated membrane; MDM1/USAP103, mitochondrial distribution and morphology interacting protein 103; mTOP2, mammalian target of rapamycin; N-ATP5, N-terminal portion of ATREB or ATREB2; NF-Y, nuclear transcription factor Y; NGFLY1, N-glycanase; NPA, NAD(P)H450 reductase; OASIS, cAMP responsive element-binding protein 3-like 1; ORAI1, calcium release-activated calcium channel protein 1; PDI, protein disulphide isomerase; p-eIF2α, phospho-eIF2α; PSK6, protein kinase RNA-like endoplasmic reticulum kinase; PIPK, protein kinase RNA-activated; PMA, phorbol ester; PP1, protein phosphatase type 1; qPCR, quantitative polymerase chain reaction; REER, rough endoplasmic reticulum; RERD, regulated IRE1-dependent decay; ROS, reactive oxygen species; SEC23B, vesicle-trufffeling protein SEC23B; SECPA, smooth endoplasmic reticulum; β -Tose Ca^{2+} -ATPase; SER, smooth endoplasmic reticulum; TAD, transcriptional activation domain; TRAF2, tumour necrosis factor receptor-associated factor 2; UDCA, taurochenodeoxycholic acid; UDCA, uridochenoxycholic acid; UPR, unfolded protein response; WT, wild-type; XBP1s, spliced isoform of XBP1; XBP1u, unspliced isoform of XBP1; XBP1, X-box binding protein 1.

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Management of Obesity, Part I: Overview and Basic Mechanisms, An Issue of Gastroenterology Clinics of North America,
E-Book Lee M. Kaplan, 2023-05-18 In this issue of Gastroenterology Clinics guest editor Dr Lee M Kaplan brings his considerable expertise to the topic of Management of Obesity Part I Overview and Basic Mechanisms Most of the world's population live in countries where being overweight and obese is more life threatening than being underweight This preventable disease leaves patients with a cascade of health problems resulting in serious stress and impact on global economies and healthcare systems This issue the first of two addresses basic mechanisms and contributors of obesity along with health care disparities and access Contains 16 practice oriented topics including the many forms of obesity genetic contributions to obesity health complications of obesity the effect of obesity on gastrointestinal disease disparities in access and quality of obesity care and more Provides in depth clinical reviews of management of obesity offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

Adaptive Protection of the Heart Felix Z. Meerson, 1990-11-21 This book explores the possibilities of protecting the heart against stress and ischemia through adaptation to intermittent hypoxia or to mild nondamaging stress exposure These possibilities are based on studies that show an increase in the potency and efficiency of stress limiting systems when subjected to repeated stress actions adaptation to high altitude hypoxia or adaptation to increased physical loads Any stress reaction is coupled with an activation of central and local stress limiting systems such as GABAergic opioidergic and serotonergic systems in the brain as well as antioxidants prostaglandins and adenosine in executive organs The book also presents the use of metabolites of stress limiting systems rather than adaptation as a means to prevent cardiac arrhythmias It also discusses genetically determined deficiencies of stress limiting systems and their role in the etiology of stress induced diseases Cardiologists and researchers studying stress and its effect on cardiovascular systems will find this book extremely useful

Immune Regulation in Kidney Diseases: Importance, Mechanism and Translation Cheng Yang, Songjie Cai, 2021-03-16 *The Cambridge Handbook of Age and Ageing* Malcolm L. Johnson, Vern L. Bengtson, Peter G. Coleman, Thomas B. L. Kirkwood, 2005-12-01 The Cambridge Handbook of Age and Ageing first published in 2005 is a guide to the body of knowledge theory policy and practice relevant to age researchers and gerontologists around the world It contains almost 80 original chapters commissioned and written by the world's leading gerontologists from 16 countries and 5 continents The broad focus of the book is on the behavioural and social sciences but it also includes important contributions from the biological and medical sciences It provides comprehensive accessible and authoritative accounts of all the key topics in the field ranging from theories of ageing to demography physical aspects of ageing mental processes and ageing nursing and health care for older people the social context of ageing cross cultural perspectives relationships quality of life gender

and financial and policy provision This handbook will be a must have resource for all researchers students and professionals with an interest in age and ageing **HEALTH & SCIENCE 2025-I** Hüseyin KAFADAR,2025-03-28 CONTENTS CHAPTERS THE APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN HEALTHCARE SYSTEMS F rat KARA Emel MATARACI KARA QUANTUM TECHNOLOGIES THE REVOLUTION SHAPING THE FUTURE OF HEALTH AND SCIENCE Sevdanur GEN AI INTEGRATED MANAGEMENT OF PNEUMOTHORAX A NEW ERA IN DIAGNOSIS AND TREATMENT Alper TABUR ARTIFICIAL INTELLIGENCE APPLICATIONS IN AESTHETIC MESOTHERAPY TREATMENTS Meri YILDIZ YILMAZ FACIAL ANATOMY IN NON SURGICAL AESTHETIC APPLICATIONS Seda ET N LESION STERILIZATION AND TISSUE REPAIR LSTR Alaaddin ZKAN Tu e Nur AH N Asu AKIR THE ROLE OF IODINE IN THE IMMUNE SYSTEM AND FIGHT AGAINST INFECTIONS Ebru BARDA ZKAN G zde AT LA USLU HUMAN PAPILLOMAVIRUS HPV IN BREAST CANCER zcan ERDO AN THE ROLE OF LIQUID BIOPSY IN THE DIAGNOSIS AND MANAGEMENT OF PULMONARY CARCINOMA Fazl YANIK WHAT IS STROKE RISK FACTORS CLASSIFICATION PATHOPHYSIOLOGY AND NUTRITIONAL INVENTIONS IN STROKE pek AKY Z U ur G N EN THERAPEUTIC POTENTIAL OF ASTROCYTES IN NEUROLOGICAL DISEASES Sadettin ERSOY NEUROBEHAVIORAL AND HORMONAL PERSPECTIVE ON FIBROMYALGIA SYNDROME znur zge ZCAN Burcu EVREL IODINE AND NEUROLOGICAL HEALTH EFFECTS ON THE BRAIN FUNCTIONING Ebru BARDA ZKAN Hamit USLU STRESS METABOLISM Merve KIYAR U ur G N EN RESPONSIVE CARE IN CHILD DEVELOPMENT K bra BUDAL AYTA G len BARAN COMPLEMENTARY AND SUPPORTIVE MEDICAL PRACTICES AND NURSING Cansu YILMAZ INFANCY SLEEP PATTERNS AND FEEDING BEHAVIOR Ay l Seda TOGUR Aysel K KSAL AKYOL COMPLIANCE AND MOTIVATION IN ORAL HYGIENE EDUCATION FOR ADULTS Ay e BOZKURT Chemical and Biological Properties of Food Allergens Lucjan Jedrychowski,Harry J. Wickers,2009-09-28 In the U S alone severe food related allergic reactions account for an estimated 30 000 emergency room visits and 150 deaths per year unsettling statistics for food product developers and manufacturers who are charged with ensuring food safety and quality throughout the entire farm to table production chain Providing the clear cut information **Medical Sociology: Social structures and health** Graham Scambler,2005 *Foundations of Osteopathic Medicine* Anthony G. Chila,2010 Thoroughly revised for its Third Edition Foundations of Osteopathic Medicine is the most comprehensive current osteopathic text This edition features expanded coverage of international practice and includes a new chapter on the structure of the profession *Navy Medicine* ,1993 Understanding Pathophysiology - E-Book Sue E. Huether,Kathryn L. McCance,2013-12-27 Learn the essential concepts of pathophysiology and stay up to date on treatments manifestations and mechanisms of disease with Understanding Pathophysiology 5th Edition Filled with vibrant illustrations and complemented by online resources that bring pathophysiology concepts to life this easy to read text delivers the latest most accurate information on the disease process across the lifespan giving you the fundamental knowledge you need to move forward in your nursing education Consistent presentation helps you better distinguish pathophysiology clinical

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Jerome Engel Jr,Solomon L. Moshé,2023-10-23 Authoritative and updated Epilepsy A Comprehensive Textbook 3rd Edition contains 365 chapters that cover the full spectrum of relevant topics in biology physiology and clinical information from molecular biology to public health concerns in developing countries Written by world renowned authorities and expertly edited by epileptologists Drs Jerome Engel Jr Solomon L Moshé Aristea S Galanopoulou John M Stern Alexis Arzimanoglou Jacqueline A French Renzo Guerrini Andres M Kanner and Istvan Mody this three volume work includes detailed discussions of seizure types and epilepsy syndromes relationships between physiology and clinical events psychiatric and medical comorbidities conditions that could be mistaken for epilepsy and an increasing range of pharmacologic surgical and alternative therapies Research in Biological and Medical Sciences Walter Reed Army Institute of Research,1975

Research Awards Index ,1988 *Geriatric Diabetes* Medha N. Munshi,Lewis A. Lipsitz,2007-05-21 The number of elderly patients with diabetes is increasing at a significant rate Responding to this growth this source serves as a solid arsenal of information on the varying presentations and challenges associated with diabetes in the geriatric patient and supplies clearly written sections on the screening diagnosis and treatment of diabetes Molecular Mechanisms of Hormone Actions on Behavior Anne M. Etgen,Donald W. Pfaff,2010-03-16 A single volume of 31 articles Mechanisms of Hormone Actions on Behavior is an authoritative selection of relevant chapters from the Hormones Brain and Behavior 2e MRW the most comprehensive source of neuroendocrinological information assembled to date AP June 2009 The study of hormones as they impact the brain and subsequently behavior is a central topic in neuroscience endocrinology and

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,1986 **1962 NASA Authorization** United States. Congress. House. Committee on Science and Astronautics,1961

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Table of Contents Stress Basic Mechanisms Clinical Imp

1. Understanding the eBook Stress Basic Mechanisms Clinical Imp
 - The Rise of Digital Reading Stress Basic Mechanisms Clinical Imp
 - Advantages of eBooks Over Traditional Books
2. Identifying Stress Basic Mechanisms Clinical Imp
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Stress Basic Mechanisms Clinical Imp
 - User-Friendly Interface
4. Exploring eBook Recommendations from Stress Basic Mechanisms Clinical Imp
 - Personalized Recommendations
 - Stress Basic Mechanisms Clinical Imp User Reviews and Ratings
 - Stress Basic Mechanisms Clinical Imp and Bestseller Lists

5. Accessing Stress Basic Mechanisms Clinical Imp Free and Paid eBooks
 - Stress Basic Mechanisms Clinical Imp Public Domain eBooks
 - Stress Basic Mechanisms Clinical Imp eBook Subscription Services
 - Stress Basic Mechanisms Clinical Imp Budget-Friendly Options
6. Navigating Stress Basic Mechanisms Clinical Imp eBook Formats
 - ePUB, PDF, MOBI, and More
 - Stress Basic Mechanisms Clinical Imp Compatibility with Devices
 - Stress Basic Mechanisms Clinical Imp Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Stress Basic Mechanisms Clinical Imp
 - Highlighting and Note-Taking Stress Basic Mechanisms Clinical Imp
 - Interactive Elements Stress Basic Mechanisms Clinical Imp
8. Staying Engaged with Stress Basic Mechanisms Clinical Imp
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Stress Basic Mechanisms Clinical Imp
9. Balancing eBooks and Physical Books Stress Basic Mechanisms Clinical Imp
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Stress Basic Mechanisms Clinical Imp
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Stress Basic Mechanisms Clinical Imp
 - Setting Reading Goals Stress Basic Mechanisms Clinical Imp
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Stress Basic Mechanisms Clinical Imp
 - Fact-Checking eBook Content of Stress Basic Mechanisms Clinical Imp
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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