



Review

Regulating Death and Disease: Exploring the Roles of Metacaspases in Plants and Fungi

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Abstract: Identified over twenty years ago and distantly related to animal caspases are a group of cysteine proteases known as metacaspases. Throughout the years, much like caspase roles in metazoans, metacaspases have been shown to be involved in regulating cellular death in non-metazoan organisms. Yet, continued research on metacaspases describes these proteins as intricate and multifunctional, displaying striking diversity on distinct biological functions. In this review, we intend to describe the recent advances in our understanding of the divergence of metacaspase functionality in plants and fungi. We will dissect the duality of metacaspase activity in the context of plant-pathogen interactions, providing a unique lens from which to characterize metacaspases in the development, immunity, and stress responses of plants, and the development and virulence of fungi. Furthermore, we explore the evolutionary trajectory of fungal metacaspases to delineate their structure and function. Bridging the gap between metacaspase roles in immunity and pathogenicity of plant-pathogen interactions can enable more effective and targeted phytopathogen control efforts to increase production of globally important food crops. Therefore, the exploitation and manipulation of metacaspases in plants or fungi represent new potential avenues for developing mitigation strategies against plant pathogens.

Keywords: metacaspases; programmed cell death; plant immunity; plant pathogens; pathogenicity; fungal pathogens



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1. Introduction

Plant pathogens are responsible for devastating agricultural losses across a wide array of crops, exacerbating the burden of global food insecurity [1]. Successful plant pathogens must bypass plant defenses while plants must employ a vast range of controlled defense mechanisms to subvert potential pathogenicity [2,3]. This complex interaction entails utilizing a variety of mechanisms, such as pathogen effector proteins and host resistance genes [4]. Intriguingly, a common denominator observed in these plant-pathogen interactions is the implementation and regulation of cellular death. Plant immune responses rely on precise and regulated cell death to impede pathogen invasion while ensuring the protection of the surrounding host cells [5]. Conversely, cell death is an important aspect in the maintenance of pathogen fitness, as it enables the pathogen to effectively cause disease and circumvent defense strategies executed by the plant host [6].

Initially, the regulation of cell death was only known in metazoan organisms. It was found that programmed cell death (PCD), the precise removal of unwanted cells following specific signals, in animals was coordinated by caspases [7,8]. Caspases are proteins found within the family of cysteine proteases. Their name is derived from their composition and amino acid specificity: cysteine aspartic-specific proteases [9]. Given the highly regulated network involved in PCD, caspases are initially synthesized as zymogens, or inactive enzymes. Caspases consist of a prodomain located at the N-terminus, followed by the p20

Regulating Death

David Baker



Regulating Death:

Regulating the Body Austin Sarat, Susanna Lee, 2025-08-05 How legal regulation of the body is practiced and justified
Regulating the Body examines the practice of legal regulation of the body and how it has been justified The essays in this anthology trace the ideological moral and religious arguments for increasing the reach of regulation and authorizing punishment for infractions Bringing together leading scholars in the law and humanities this volume examines the practices and discourses used to regulate the body concentrating on scenarios where ethical and legal inconsistencies abound The regulations examined herein range from the sale of gametes parental rights over children's genetic information debates about masking discourse regarding vaccines and abortion anti transgender legislation and the control of inmates bodies on death row These are situated within a cultural and political environment that values regulation and punishment over our long standing constitutional protections At a time where rhetoric around regulation of the body is becoming increasingly incendiary Regulating the Body reveals worsening legal hypocrisies and unmasks the threats to both personal autonomy and the claims of law itself

Governing Death and Loss Stephen Conway, 2011 Political economic social cultural and technological changes have led to profound transformations in the ways that death and loss are perceived and managed in contemporary society Over the last few decades the long term shift to chronic illness as a major causal factor has significantly increased the time scale of dying Most people die in institutions and care is typically medical Many communities and ordinary citizens now relinquish control and involvement to experts in the last stages of life However at global and local levels new institutional arrangements are emerging to govern the changing face of death and a new model is being developed to counter claims of the creeping medicalisation of death and dying Emphasising the international context of the issues involved this book illustrates the interlinking nature of society death and loss and gives examples of governance that promotes the empowerment participation and the increasing need for the involvement of ordinary people and communities in differing social and cultural contexts All chapters are written at an accessible level and will appeal to a wide readership Part 1 of the book provides a sociological understanding of the governance of death and loss in international and historical contexts and the implications for practice Part 2 provides examples of good practice drawing upon a sociological understanding

Mortality and the Human Experience: A Political Perspective Pasquale De Marco, 2025-07-17 In Mortality and the Human Experience A Political Perspective Pasquale De Marco offers a thought provoking exploration of the profound and multifaceted relationship between mortality and political thought This comprehensive book examines the ways in which death shapes our political institutions values and practices and how political systems in turn influence our understanding of death and dying The book delves into a wide range of topics from classical and modern theories of death to examinations of the role of death in the state justice and the human condition Drawing on a wealth of sources from political theory philosophy history literature and religion Pasquale De Marco provides a rich and nuanced understanding of the political significance of

death Mortality and the Human Experience also features case studies and examples from around the world illustrating the diverse ways in which death is experienced and understood in different political contexts These case studies offer a deeper understanding of the complex relationship between mortality and politics This book is essential reading for anyone interested in political theory philosophy or the human condition Pasquale De Marco s interdisciplinary approach and thought provoking insights make this book a valuable resource for scholars students and general readers alike Mortality and the Human Experience challenges us to confront the reality of death and consider its implications for our political and personal lives This book is a timely and important contribution to the ongoing conversation about the meaning of life and death in an

increasingly complex and interconnected world If you like this book write a review **Deaths After Police Contact** David Baker,2016-10-18 This book investigates death after police contact in England and Wales in the twenty first century It examines how regulatory bodies construct accountability in such cases Cases of death after police contact have the potential to cause deep unease in society They highlight the unique role of the police in being legitimately able to use force whilst at the same time being expected to preserve life People who are from Black or Minority Ethnic backgrounds or have mental health issues or are dependent on substances are disproportionately more likely to die in these cases and this emphasises the sensitive nature of many of these deaths to society Deaths after Police Contact examines police legitimacy and the legitimacy of police regulators in these cases The book argues that accountability is produced by a relatively arbitrary system of regulation that investigates such deaths as individual cases rather than attempting to learn lessons from annual trends and patterns that might prevent future deaths It will be of great interest to scholars and upper level students of policing and criminal justice Unraveling the Molecular Mechanisms of Cytokine Signaling in Regulating Inflammatory Diseases Wai Po

Chong,Jian Zheng,Huawei Mao,2025-04-09 Chronic and dysregulated inflammation play a significant role in the pathogenesis of autoimmune diseases and inflammatory diseases Despite the prevalence and impact of these diseases the molecular mechanisms underlying cytokine regulation in these inflammatory diseases remain poorly understood This special issue aims to address this knowledge gap by discovering the intricate network of cytokine signaling pathways in immunoregulation during inflammatory diseases By unraveling these molecular mechanisms we can gain valuable insights into the dysregulation of cytokines in immune responses This deeper understanding will enable us to identify specific molecules signaling pathways and cellular interactions that contribute to disease progression Such knowledge is crucial for the development of targeted therapeutic interventions that can restore immune balance and mitigate the detrimental effects of inflammation Moreover the elucidation of these molecular mechanisms may also provide opportunities for the discovery of novel therapeutic targets By understanding the key molecules or pathways that drive the dysregulation of cytokine signaling pathways researchers can develop innovative approaches to modulate or manipulate these targets ultimately leading to the development of more effective treatments for autoimmune and inflammatory diseases Turkey's Necropolitical Laboratory

Banu Bargu, 2019-10-08 Building on critical and contemporary theory these essays address the multiple ways in which the Turkish regime controls its citizens through physical destruction structural violence and exposure The 12 case studies include counterinsurgency warfare enforced disappearances cemeteries monuments prisons courts and the army *The Regulatory Regime of Food Safety in China* Guanqi Zhou, 2017-05-23 This book examines the decade from 2004 to 2013 during which people in China witnessed both a skyrocketing number of food safety crises and aggregating regulatory initiatives attempting to control these crises Multiple cycles of crisis regulatory efforts indicated the systemic failure of this food safety regime The book explains this failure in the social foundations for the regulatory governance of food safety It locates the proximate causes in the regulatory segmentation which is supported by the differential impacts of the food regulatory regime on various consumer groups The approach of regulatory segmentation does not only explain the failure of the food safety regime by digging out its social foundation but is also crucial to the understanding of the regulatory state in China *The Politics of Emotion* Nuria Silleras-Fernandez, 2024-02-15 The Politics of Emotion explores the intersection of powerful emotional states love melancholy grief and madness with gender and political power on the Iberian Peninsula from the Middle Ages to the early modern period Using an array of sources literary texts medical treatises and archival documents Nuria Silleras Fernandez focuses on three royal women Isabel of Portugal 1428 1496 queen consort of Castile Isabel of Aragon 1470 1498 queen consort of Portugal and Juana of Castile 1479 1555 queen of Castile and its empire Each of these women was perceived by their contemporaries as having gone mad as a result of excessive grief and all three were related to Isabel the Catholic 1451 1504 queen of Castile and a woman lauded in her time as a paragon of reason Through the lives and experiences of these royal women and the observations judgments and machinations of their families entourage and circles of writers chroniclers courtiers moralists and physicians in their orbits Silleras Fernandez addresses critical questions about how royal women in Iberia were expected to behave the affective standards to which they were held and how perceptions about their emotional states influenced the way they were able to exercise power More broadly The Politics of Emotion details how the court cultures in medieval and early modern Castile and Portugal contributed to the development of new notions of emotional excess and mental illness Apoptosis: Pharmacological Implications and Therapeutic Opportunities, 1997-07-23 Programmed cell death PCD has become a topic of widespread interest and experimentation over the past decade Written by experts in the field Apoptosis Pharmacological Implications and Therapeutic Opportunities concentrates on presenting an overview of PCD pathways as they are currently understood and strives to identify important unanswered questions as well as other therapeutic possibilities suggested by recent biochemical discoveries Understanding the biochemical pathways that participate in the cell death process has become an important goal in developmental biology neurobiology cardiology and infectious disease research The control of apoptosis has also become a major area of investigation in the field of cancer biology Apoptosis Pharmacological Implications and Therapeutic Opportunities contains

an overview for those with a general interest in apoptosis and provides discussions of sufficient depth to be useful for specialists in the field

Hormones and Signaling Lutz Birnbaumer, James Darnell, Ronald Evans, Tony Hunter, Anthony R. Means, Vale Wylie, 1997-11-14 Hormones and Signaling focuses on the mechanism of gene regulation at the cellular level It also covers the way hormones act to modulate gene regulation and animal development Includes information on Nuclear receptors coactivators and corepressors Membrane receptors kinases and phosphorylation on cascades Hormonal regulation of development Calcium channels and neurotransmitters Chromatin transcription factors and regulation of gene expression JAK STAT pathways Hormone regulated development and gene knock out

Dynamics of Cell Fate Decision Mediated by the Interplay of Autophagy and Apoptosis in Cancer Cells Iman Tavassoly, 2015-02-16 This interdisciplinary thesis introduces a systems biology approach to study the cell fate decision mediated by autophagy A mathematical model of interaction between Autophagy and Apoptosis in mammalian cells is proposed In this dynamic model autophagy acts as a gradual response to stress Rheostat that delays the initiation of bistable switch of apoptosis to give the cells an opportunity to survive The author shows that his dynamical model is consistent with existing quantitative measurements of time courses of autophagic responses to cisplatin treatment To understand the function of this response in cancer cells he has provided a systems biology experimental framework to study quantitative and dynamical aspects of autophagy in single cancer cells using live cell imaging and quantitative fluorescence microscopy This framework can provide new insights on function of autophagic response in cancer cells

Caring for Patients at the End of Life Timothy E. Quill, 2001-03-22 In Caring for Patients at the End of Life Facing an Uncertain Future Together Dr Quill uses his wide range of clinical experience caring for severely ill patients and their families to illustrate the challenges and potential of end of life care Section one utilizes the near death experiences of two patients to explore values underlying medical humanism and then presents the case of Diane to explore the fundamental clinical commitments of partnership and non abandonment Section two explores illustrates and provides practical guidance for clinicians patients and families about critical communication issues including delivering bad news discussing palliative care and exploring the wish to die In section three difficult ethical and policy challenges inherent in hospice work including the rule of double effect terminal sedation and physician assisted suicide are explored using a mix of real cases and an analysis of underlying clinical ethical and policy issues In a final chapter Dr Quill discusses the tragic death of his brother which occurred as this book was being completed and how his family made the most emotionally challenging decisions of their lives Dr Quill exposes readers to an internally consistent and practical way of thinking by simultaneously embracing the potential of palliative care and also acknowledging that it has limitations His philosophy of offering forthright discussions with patient and family mutual decision making ensuring medical and palliative care expertise and of committing to see the dying process through to the patient s death is vividly illustrated

Developmental Neurobiology Mahendra S. Rao, Marcus Jacobson, 2006-04-04 This consistent and well illustrated text is an up to date survey

of cellular and molecular events contributing to the assembly of the vertebrate nervous system Chapters include a mixture of historical content and descriptions from literature that best illustrate specific aspects of development

Privacy Law in Australia Carolyn Doyle, Mirko Bagaric, 2005 This book begins by examining the nature and scope of the right to privacy and its moral basis and status What is privacy What interests does it affect and protect Is there a justification for the right Privacy Law in Australia discusses the relevant legal regime in all Australian jurisdictions It covers the extent to which privacy has been protected under common law and equity and then weaves these principles into the statutory discussion of privacy It focuses specifically on the most important areas of privacy protection medical records communications criminal investigations and DNA employment territory and do on Finally it examines how the law may develop in the future

The Adult Guardianship Experiment Terry Carney, David Tait, 1997 During the 1980s Australia remade its adult guardianship laws that governed people unable to manage their own affairs or property The reforms embraced UN principles and took a common pattern with reformist North American and European countries with one key exception The rest of the world chose courts to administer the laws Australia created specialist multi disciplinary tribunals This book compares the work of guardianship tribunals and courts and argues forcefully that Australia s adult guardianship experiment in popular justice is a success Carney and Tait present work on the Australian tribunals in NSW and Victoria and compare them with overseas studies on courts and the Family Court of Australia On every measure tribunals outperform courts They are more inclusive They pay more attention to social context and functioning and are better at incorporating the affected person into the hearing striking an alliance with them Courts by contrast favour alliances with families and the medical profession Even in areas where courts might be expected to perform better they are less successful than the tribunals collecting and testing evidence and avoiding unnecessary intervention

The Role of Nitric Oxide in Heart Failure Bodh I. Jugdutt, 2007-05-08 Research on nitric oxide NO is a very hot topic since 1998 when three prominent researchers were recognized by Nobel prize awards Addresses clinically pertinent issues related to nitric oxide in the pathophysiology and therapeutics of heart failure Chapters written by basic scientists and clinicians to emphasize translation character of research in nitric oxide An excellent reference source for researchers practitioners and students

Developmental Neurobiology Mr. Rohit Manglik, 2024-07-30 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

The Neurology of Religion Alasdair Coles, Joanna Collicutt, Joanna Collicutt McGrath, 2019-11-07 Examines what can be learnt about the brain mechanisms underlying religious practice from studying people with neurological disorders

Apoptosis and Human Health: Understanding Mechanistic and Therapeutic Potential Kuladip Jana, 2024-12-20 This book comprehensively reviews the recent advancements in apoptosis research and evaluates its therapeutic targets and strategies in controlling

various human diseases The initial chapter presents the molecular components that regulate apoptosis and its importance for pathogenic processes The subsequent chapters discuss the molecular mechanisms and signaling pathways involved in apoptosis induction and inhibition The book also examines the role of mitochondria driven apoptosis and therapeutic strategies for targeting mitochondria mediated cell death Further the book discusses the role of apoptosis in different diseases including neurodegeneration cancer diabetes cardiovascular diseases parasitic infections autoimmune diseases reproductive disorders and infertility Towards the end the book outlines the recent advances in the field of apoptosis based therapies and explores some highlights of a very active field of drug development This book is useful for the researchers involved in designing and developing new drugs and drug targets for the treatment of different human diseases

Mitochondria and the Future of Medicine Lee Know, 2018-02-19 From infertility to aging to cancer and neurological disease Dr Lee Know will teach you that mitochondria play a central role in much that we care about in health and disease Stephanie Seneff senior research scientist MIT and author of Toxic Legacy With information for patients and practitioners on optimizing mitochondrial function for greater health and longevity Why do we age Why does cancer develop What s the connection between heart failure and Alzheimer s disease or infertility and hearing loss Can we extend lifespan and if so how What is the Exercise Paradox Why do antioxidant supplements sometimes do more harm than good Many will be amazed to learn that all these questions and many more can be answered by a single point of discussion mitochondria and bioenergetics In Mitochondria and the Future of Medicine Naturopathic Doctor Lee Know tells the epic story of mitochondria the widely misunderstood and often overlooked powerhouses of our cells The legendary saga began over two billion years ago when one bacterium entered another without being digested which would evolve to create the first mitochondrion Since then for life to exist beyond single celled bacteria it s the mitochondria that have been responsible for this life giving energy By understanding how our mitochondria work in fact it is possible to add years to our lives and life to our years Current research however has revealed a dark side many seemingly disconnected degenerative diseases have tangled roots in dysfunctional mitochondria However modern research has also endowed us with the knowledge on how to optimize its function which is of critical importance to our health and longevity Dr Know offers cutting edge information on supplementation and lifestyle changes for mitochondrial optimization and how to implement their use successfully including CoQ10 D Ribose Cannabinoids Ketogenic dietary therapy and more Mitochondria and the Future of Medicine is an invaluable resource for practitioners interested in mitochondrial medicine and the true roots of chronic illness and disease as well as anyone interested in optimizing their health Dr Lee Know does a brilliant job shedding light on this once ignored organelle and shows us how to care for our most important metabolic system Dr Nasha Winters co author of The Metabolic Approach to Cancer

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