



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

Margaret Pabst Battin



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 unmask the threats to both personal autonomy and the claims of law itself

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

Regulating the End of Life Sue Westwood, 2021-09-09 Regulating the End of Life Death Rights is a collection of cutting edge chapters on assisted dying and euthanasia written by leading authors in the field Providing an overview of current regulation on assisted dying and euthanasia both in the UK and internationally this book also addresses the associated debates on ethical moral and rights issues It considers whether just as there is a right to life there should also be a right to death especially in the context of unbearable human suffering The unintended consequences of prohibitions on assisted dying and euthanasia are explored and the argument put forward that knowing one can choose when and how one dies can be life extending rather than life limiting Key critiques from feminist and disability studies are addressed The overarching theme of the collection is that death is an embodied right which we should be entitled to exercise with appropriate safeguards as and when we choose Making a novel contribution to the debate on assisted dying this interdisciplinary book will appeal to those with relevant interests in law

socio legal studies applied ethics medical ethics politics philosophy and sociology **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 Novel

Plant Molecules Regulating the Interaction with Pathogenic and Beneficial Fungi Silvia Proietti,Ivan Baccelli,Richard Hickman,Antonio Leon-Reyes,Laura Bertini,2021-03-26 **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 *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 Scripting Death Mara Buchbinder,2025-08-05 How the legalization of

assisted dying is changing our lives Over the past five years medical aid in dying also known as assisted suicide has expanded rapidly in the United States and is now legally available to one in five Americans This growing social and political movement heralds the possibility of a new era of choice in dying Yet very little is publicly known about how medical aid in dying laws affect ordinary citizens once they are put into practice Sociological studies of new health policies have repeatedly

demonstrated that the realities often fall short of advocacy visions raising questions about how much choice and control aid in dying actually affords Scripting Death chronicles two years of ethnographic research documenting the implementation of Vermont's 2013 Patient Choice and Control at End of Life Act Author Mara Buchbinder weaves together stories collected from patients caregivers health care providers activists and legislators to illustrate how they navigate aid in dying as a new medical frontier in the aftermath of legalization Scripting Death explains how medical aid in dying works what motivates people to pursue it and ultimately why upholding the right to die is very different from ensuring access to this life ending procedure This unprecedented in depth account uses the case of assisted death as an entry point into ongoing cultural conversations about the changing landscape of death and dying in the United States **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

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 Role of Nitric Oxide in Heart Failure Bodh I. Jugdutt, 2004-04-30 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

Harvard Law Review: Volume 130, Number 7 - May 2017 Harvard Law Review, 2017-05-10

DAMPs across the Tree of Life, Volume 2: Regulated Cell Death and Immune Responses S.-Y. Seong, Walter Gottlieb Land, Hans-Joachim Anders, Martin Heil, Massimo E. Maffei, 2022-04-26

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

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

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 *The Free Son* Independent Order Free Sons of Israel,1917 Development of the Nervous System Dan H. Sanes,Thomas A. Reh,William A. Harris,2000-06-07 Development of the Nervous System presents a broad outline of neural development principles as exemplified by key experiments and observations from past and recent times The text is organized along a development pathway from the induction of the neural primordium to the emergence of behavior It covers all the major topics including the patterning and growth of the nervous system neuronal determination axonal navigation and targeting synapse formation and plasticity and neuronal survival and death This new text reflects the complete modernization of the field achieved through the use of model organisms and the intensive application of molecular and genetic approaches Original artist rendered drawings combined with clear concise writing make Development of the Nervous System well suited to anyone approaching this complex field for the first time Key Features Provides a synopsis of concepts and experimental strategies Includes designs of critical experiments that are easy to understand Outlines the molecular and genetic bases for many developmental events Presents new information on the function of the developing central nervous system Richly illustrated with original drawings Treats the field as an experimental rather than a descriptive science Written at a level that is appropriate for undergraduates and beyond **Ending Life** Margaret Pabst Battin,2005-05-05 Margaret Pabst Battin has

established a reputation as one of the top philosophers working in bioethics today This work is a sequel to Battin s 1994 volume *The Least Worst Death* The last ten years have seen fast moving developments in end of life issues from the legalization of physician assisted suicide in Oregon and the Netherlands to furor over proposed restrictions of scheduled drugs used for causing death and the development of NuTech methods of assistance in dying Battin s new collection covers a remarkably wide range of end of life topics including suicide prevention AIDS suicide bombing serpent handling and other religious practices that pose a risk of death genetic prognostication suicide in old age global justice and the duty to die and suicide physician assisted suicide and euthanasia in both American and international contexts As with the earlier volume these new essays are theoretically adroit but draw richly from historical sources fictional techniques and ample factual material

Regulating Death: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Regulating Death : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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