

Anna University Nov Dec 2017 Exams Grace Marks Details

Manufacturing Technology - II is a branch of mechanical engineering which extensively deals with the production of industrial goods with the help of advanced tools and machinery. This subject gives information which covers the more practical knowledge than the theory. It provides tool to enable production of manufacturing goods efficiently. The subject gives idea to maximise product quality and to minimise the production cost. It also gives information about the different surface finishing techniques. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

"Tooth Enamel: Frontiers in Mineral Chemistry and Biochemistry, Integrative Cell Biology and Genetics" incorporates the proceedings of the 9th International Enamel Symposium (Enamel 9) hosted in the UK and chaired by Professor Jennifer Kirkham and Professor Ariane Berdal. The topic covers cellular and molecular aspects of the development, pathology, evolution and repair or regeneration of dental enamel. The original research papers and reviews will be of interest to all enamel and biomineralization researchers. Clinicians will find up-to-date thinking and opinion on the aetiology of enamel pathologies and their potential future treatment via novel strategies for preventing, repairing and regenerating enamel.

Literary tourism is a nascent field in tourism studies, yet

tourists often travel in the footsteps of well-known authors and stories. Providing a wide-ranging cornucopia of literary tourism topics, this book fully explores the interconnections between the written word and travel. It includes tourism stories using guidebooks, films, television and electronic media, and recognises that stories, texts and narratives, even if they cannot be classified as traditional travel writing, can become journeys in themselves and take us on imaginary voyages. Appealing to a wide audience of different disciplines, it encompasses subjects such as business literary writing, historical journeys and the poetry of Dylan Thomas. The use of these different perspectives demonstrates how heavily and widely literature influences travel, tourists and tourism, making it an important read for researchers and students of tourism, social science and literature.

This book explores the effective use of information and communication technology (ICT) in teaching and learning. Concept-laden and practice-driven discussions offer insights into the art and practice of employing virtual and augmented reality (VR/AR), electronic devices, social networks and massive open online courses (MOOCs) in education.

This book focuses on the changing role of judges in courts, tribunals, and other forums across a variety of jurisdictions. With contributions by international experts in judicial administration and senior judicial figures, it provides a unique comparative perspective on the role of modern judges in a rapidly evolving environment and the pressures of effective judicial administration. The

chapters are sourced from a Collaborative Research Network focused on innovations in judging, and sponsored by the international Law and Society Association. The book provides essential insights and perspectives for judges, judicial officers, and administrators, allowing them to respond to the challenges of the twenty-first century. It is also a valuable resource for legal practitioners and judicial experts, shedding light on the role of the modern judge and the strategies they employ.

Legal Aspects of Business is an important constitute of the business and corporate environment. No Corporate entity can effectively work and survive without meeting legal obligations. This book says it all in the form of Questions and Answers. Questions are framed in such a way that the readers will be able to quickly connect with the content and subject. The appropriate answers given under each question will lessen the burden of the students unlike the conventional means, where learners try to navigate for answers for hours and hours.

This book is a printed edition of the Special Issue "The Future of Catholic Theological Ethics" that was published in Religions

A major new investigation into the Bhutto family, examining their influence in Pakistan from the colonial era to the present day "Fluently written, impeccably researched and never short of extraordinary insights, this is a landmark publication."--Farzana Shaikh, Literary Review The Bhutto family has long been one of the most ambitious and powerful in Pakistan. But politics has cost the Bhuttos dear. Zulfikar Ali Bhutto, widely regarded as

the most talented politician in the country's history, was removed from power in 1977 and executed two years later, at the age of 51. Of his four children, three met unnatural deaths: Shahnawaz was poisoned in 1985 at the age of 27; Murtaza was shot by the police outside his home in 1996, aged 42; and Benazir Bhutto, who led the Pakistan Peoples Party and became Prime Minister twice, was killed by a suicide bomber in Rawalpindi in 2007, aged 54. Drawing on original research and unpublished documents gathered over twenty years, Owen Bennett-Jones explores the turbulent existence of this extraordinary family, including their volatile relationship with British colonialists, the Pakistani armed forces, and the United States.

Big data and data science are transforming our world today in ways we could not have imagined at the beginning of the twenty-first century. The accompanying wave of innovation has sparked advances in healthcare, engineering, business, science, and human perception, among others. The tremendous advances in computing power and intelligent techniques have opened many opportunities for managing data and investigating data in virtually every field, and the scope of data science is expected to grow over the next decade. These future research achievements will solve old challenges and create new opportunities for growth and development. Thus, the research presented in this book is interdisciplinary and covers themes embracing emotions, artificial intelligence, robotics applications, sentiment analysis, smart city problems, assistive technologies, speech melody, and fall and abnormal behavior

detection. The book is directed to the researchers, practitioners, professors and students interested in recent advances in methodologies and applications of data science. An introduction to the topic is provided, and research challenges and future research opportunities are highlighted throughout.

Buckle-up before you riffle through the pages of this fascinating book. You are about to embark on a cool ride that will not just blow you away but also take the lid off some disruptive emerging technologies that promise kick-ass capabilities for the police to combat crime and criminals. As you journey through the book, encounter some cool emerging technologies, such as Artificial Intelligence, Augmented Reality, 3D Printing, DNA Profiling, Genetic Genealogy, Virtual Reality, Brain Fingerprinting, Nanotechnology, Quantum Computing, Synthetic Biology and more, waft from the pages of this brilliant book. Know for yourself whether these exponential technologies promise a utopia. Or if the burgeoning technologies like CRISPR, Robots and Drones could turn dystopian by fostering criminals? In the same vein – Should we embrace or ignore predictive policing? Will the haunting spectre of Bioterrorism portend a catastrophe for entire humankind? Is it possible for the Darknet to enable a perfect murder? Can we use microbes to detect crimes? And finally, have we started forging God's signature? Also delve into the bizarre world of Mind-Uploading, Botnets, Cryptocurrency and Digital Weapons. Get dazzled by cool policing scenarios without losing sight of its apocalyptic side. Totally enthralling and thoroughly

captivating, this book is an essential read for both police professionals and general readers.

“Outstanding...exceptionally well written, organized and presented...recommended”—Midwest Book Review Quest narratives are as old as Western culture. In stories like *The Odyssey*, *The Lord of the Rings*, *Star Wars* and *Harry Potter*, men set out on journeys, fight battles and become heroes. Women traditionally feature in such stories as damsels in need of rescue or as the prizes at the end of heroic quests. These narratives perpetuate predominant gender roles by casting men as active and women as passive. Focusing on stories in which popular teenage heroines—*Buffy Summers*, *Katniss Everdeen* and Disney’s *Princess Merida*—embark on daring journeys, this book explores what happens when traditional gender roles and narrative patterns are subverted. The author examines representations of these characters across various media—film, television, novels, posters, merchandise, fan fiction and fan art, and online memes—that model concepts of heroism and girlhood inspired by feminist idea

This book is a printed edition of the Special Issue " Chemically-Induced DNA Damage, Mutagenesis, and Cancer" that was published in *IJMS*

Poetry and Crisis argues that the 2004 terrorist attacks in Madrid marked a critical turning point in Spanish society, with poetry taking a unique role in reflecting new political and cultural realities.

The Managed Body productively complicates ‘menstrual hygiene management’ (MHM)—a growing social movement to support menstruating girls in the Global

South. Bobel offers an invested critique of the complicated discourses of MHM including its conceptual and practical links with the Water, Sanitation and Hygiene (WASH) development sector, human rights and 'the girling of development.' Drawing on analysis of in-depth interviews, participant observations and the digital materials of NGOs and social businesses, Bobel shows how MHM frames problems and solutions to capture attention and direct resources to this highly-tabooed topic. She asserts that MHM organizations often inadvertently rely upon weak evidence and spectacularized representations to make the claim of a 'hygienic crisis' that authorizes rescue. And, she argues, the largely product-based solutions that follow fail to challenge the social construction of the menstrual body as dirty and in need of concealment. While cast as fundamental to preserving girls' dignity, MHM prioritizes 'technological fixes' that teach girls to discipline their developing bodies vis a vis consumer culture, a move that actually accommodates more than it resists the core problem of menstrual stigma.

Across diverse academic fields, scholars and practitioners are engaged in developing interventions to promote outcomes like health and quality of life. Indeed, such is the apparent efficacy of such interventions, that there are many policy-led initiatives to implement these at national and international scales. However, few scholars or practitioners have thought in any systematic and critical way about the importance of contextualizing these interventions, i.e., considering how the impact of such interventions may be affected and mediated by

specific sociocultural factors (from gender, to ethnicity and socio-economics). The aim of the Research Topic “The Sociocultural Context of Psychosocial Interventions” was to address this lacuna. As such, we tried to help bringing a more ‘contextual’ mindset to the implementation of health and wellbeing interventions. This may help to shift the way such interventions are designed and implemented, both at a granular local level (i.e., influencing individual practitioners) and at a large-scale macro level (e.g., influencing policy makers). Themes within this Research Topic have concerned both macro-sociocultural as well as meso-and micro-layers, and the peculiarities of implementing real world research based on these levels. There has been room for physical and mental health, for family relationships, for educational contexts and even for the effects of crime. Some works have included interesting methodological discussions on the integration of different ecological layers or the modal distribution of our interests. For us it has been very important to work giving a greater diffusion to these issues since, considering psychosocial interventions in the context in which they occur, goes beyond an epistemological or methodological discussion. Rather, these considerations seriously affect the ability of practitioners to really reach the people who need their interventions, listening to their needs and respecting their preferences. For the editors of this book, then, the contextualization of interventions means considering the people who receive them as full citizens immersed in complex societies where factors such as social justice and health or well-being do not float apart in space but

affect each other dialectically. We therefore think that the duty of both academics and practitioners is not to forget that it is as important to evaluate the direct effect of our interventions as the influence we have in the society as a whole when we carry them out. We hope you enjoy reading these works and that their dissemination stimulates new lines of research committed to both good practise and social transformation.

This book explores the complex and ever-changing relationship between the European Union and its member states. The recent surge in tension in this relationship has been prompted by the actions of some member state governments as they question fundamental EU values and principles and refuse to implement common decisions seemingly on the basis of narrowly defined national interests. Furthermore, Brexit forces the EU for the first time to face the prospect of a major member state preparing to leave the Union. Are these developments heralding the return of the nation-state, and if so, in what form? Is the national revival a lasting phenomenon that will affect the EU for a long time to come, or is it a transitory trend? This book takes an interdisciplinary approach to answer these questions. It brings together scholars from economics, law, and political science to provide insights into the multifaceted relations between the Union and its member states from different perspectives. All chapters are based on up-to-date research findings, succinct assessments of the current state of affairs and ongoing debates about the direction of European integration. The book concludes by offering policy recommendations at European and

national levels.

This book addresses the societal aspects of harnessing geothermal resources for different uses, such as power production, heating and cooling. It introduces a theoretical framework for a social scientific approach to the field, and presents a preliminary collection of empirical case studies on geothermal energy and society from across the world. By providing a conceptual and methodological framework to the study of geothermal energy and societies, it brings together information and analyses in the field that to date have been sparse and fragmented. The contributors explore the diverse aspects of the relationship between the harnessing of geothermal resources and the societies and local communities in which these developments take place. After introducing geothermal technologies, renewable energy concepts as well as their social and policy context and the regulative and environmental aspects of geothermal energy, the book analyzes and discusses twelve global case studies, and compares the social engagement tools applied with those used in other sectors. Of interest to researchers from a range of disciplines who wish to explore the issues surrounding energy and society, it is also a valuable resource for geothermal experts and postgraduate students wish to study the field in greater detail.

The research studies included in this Special Issue

highlight the fundamental contribution of the knowledge of environmental history to conscious and efficient environment conservation and management. The long-term perspective of the dynamics that govern the human–climate ecosystem is becoming one of the main focuses of interest in biological and earth system sciences.

Multidisciplinary bio-geo-archaeo investigations into the underlying processes of human impact on the landscape are crucial to envisage possible future scenarios of biosphere responses to global warming and biodiversity losses. This Special Issue seeks to engage an interdisciplinary dialog on the dynamic interactions between nature and society, focusing on long-term environmental data as an essential tool for better-informed landscape management decisions to achieve an equilibrium between conservation and sustainable resource exploitation.

Calming the Bipolar Storm describes the symptoms and subtypes of bipolar disorder, its causes, and the role of the social and biologic environment in affecting its course. It also emphasizes positive health-promoting behaviors and describes treatments, including psychotherapy and medications for mania and depression and for relapse prevention.

On February 26–27, 2014, the National Academies of Sciences, Engineering, and Medicine's Forum on Global Violence Prevention convened a workshop

titled *Mental Health and Violence: Opportunities for Prevention and Early Intervention*. The workshop brought together advocates and experts in public health and mental health, anthropology, biomedical science, criminal justice, global health and development, and neuroscience to examine experience, evidence, and practice at the intersection of mental health and violence. Participants explored how violence impacts mental health and how mental health influences violence and discussed approaches to improve research and practice in both domains. This publication summarizes the presentations and discussions from the workshop.

This book provides an analysis of whether the International Criminal Court can be regarded as an International Criminal World Court, capable of exercising its jurisdiction upon every individual despite the fact that not every State is a Party to the Rome Statute. The analysis is based on a twin-pillar system, which consists of a judicial and an enforcement pillar. The judicial pillar is based on the most disputed articles of the Rome Statute; its goal is to determine the potential scope of the Court's strength through the application of its jurisdiction regime. The enforcement pillar provides an analysis of the cooperation and judicial assistance mechanism pursuant to the Rome Statute's provisions and its practical implementation through

States' practices. The results of the analysis, and the lack of an effective enforcement mechanism, demonstrate that the ICC cannot in fact be considered a criminal world court. In conclusion, possible solutions are presented in order to improve the enforcement pillar of the Court so that the tremendous strength of the ICC's judicial pillar, and with it, the exercise of worldwide jurisdiction, can be effectively implemented.

Asian Migrant Workers in the Arab Gulf States (edited by Masako Ishii, et al.) examines how nationals and migrants construct new relationships in the segregated socioeconomic spaces of the region

Fully Automated Luxury Communism promises a radically new left future for everyone. New technologies will liberate us from work, providing the opportunity to build a society beyond both capitalism and scarcity. Automation, rather than undermining an economy built on full employment, is instead the path to a world of liberty, luxury and happiness. Solar power will deliver the energy that we need, while asteroid mining will deliver the necessary resources, allowing us to end the devastation of our environment. Innovations in AI, gene editing, food technology will leads us to new ways of living better lives. In his first book, radical political commentator Aaron Bastani conjures a new politics- a vision of a world of unimaginable hope, highlighting how we move to energy abundance, feed a world of nine

billion, overcome work, transcend the limits of biology and build meaningful freedom for everyone. Rather than a final destination, such a society heralds the beginning of history.

Fungi are found in virtually every environment, and comprise a significant portion of the normal microflora of healthy individuals. Some species of fungi are aeroallergen sources capable of inducing sensitization and causing exacerbation of asthma and respiratory allergy. Others are transmissible between hosts and may cause no symptoms in healthy individuals. However, immune suppressed individuals may develop invasive disease marked by tissue invasion with a potential for widespread dissemination. Existing therapies for patients consist of antifungal drugs, yet these require prolonged administration with the possibility of adverse side effects, and may be rendered ineffective by the emergence of antifungal-resistant strains. It is therefore of interest to increase our understanding of host-pathogen interactions in order to facilitate the development of new therapies for individuals suffering from fungal infection and disease. These early interactions are shaped by an array of constituent and secreted factors that stimulate or inhibit host immune responses toward protective or detrimental immunity. Likewise, an array of preformed factors and tissue-resident cells provide early protection from fungal infection and provide

extracellular signals that result in localized recruitment of inflammatory cells and determine the character of subsequent adaptive antifungal immunity. This Research Topic explores the host and fungal pathways that program innate and adaptive immunity and the immune cells, molecules, and regulatory pathways that comprise protective or detrimental responses to fungal exposure or infection. Over 200 authors contributed reviews, opinions, or original research focusing on antifungal immunity in humans and in experimental models. We believe that the results of these efforts provide a benchmark for further advances and improved antifungal therapies.

The essays in this collection outline how feminists employ a variety of digital practices and tools to create spaces of solidarity, archive important feminist digital culture work, and offer blueprints for future feminist action.

"The breadth of scholarship presented here is truly impressive not only in its scope but also in its deft integration. . . . This is a work that makes major contributions to several different fields: Irish culture, including early twentieth-century theatre, political and intellectual histories; Shaw studies; O'Casey scholarship; and the intersection of international socialist thought and nationalistic revolutionary action." --Gary Richardson, Professor of English, Mercer University, USA
This book details the Irish socialistic tracks pursued by Bernard Shaw and Sean OCasey, mostly after 1916, that were arguably impacted by the executed James Connolly. The historical context is carefully unearthed, stretching from its 1894 roots via W. B. Yeats dream of Shaw as a menacing,

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yet grinning sewing machine, to Shaws and OCaseys 1928 masterworks. In the process, Shaws War Issues for Irishmen, Annajanska, the Bolshevik Empress, The Tragedy of an Elderly Gentleman, Saint Joan, The Intelligent Womans Guide to Socialism and Capitalism, and OCaseys The Story of the Irish Citizen Army, The Shadow of a Gunman, Juno and the Paycock, The Plough and the Stars, and The Silver Tassie are reconsidered, revealing previously undiscovered textures to the masterworks. All of which provides a rethinking, a reconsideration of Irelands great drama of the 1920s, as well as furthering the knowledge of Shaw, OCasey, and Connolly. Nelson OCeallaigh Ritschel is the author of Bernard Shaw, W. T. Stead, and the New Journalism (2017) and Shaw, Synge, Connolly, and Socialist Provocation (2011). He is a professor of Humanities, Massachusetts Maritime Academy.

This book is a printed edition of the Special Issue "Sustainable Smart Cities and Smart Villages Research" that was published in Sustainability

Developing a new approach to exploring security relations between China and North Korea, this timely book examines China's contradictory statements and actions through the lens of developmental peace. It highlights the differences between their close relationship on the one hand, and China's votes in favour of sanctions against North Korea on the other, examining the background to this and its importance.

The horror anthology TV show American Horror Story first aired on FX Horror in 2011 and has thus far spanned eight seasons. Addressing many areas of cultural concern, the show has tapped in to conversations about celebrity culture, family dynamics, and more. This volume with nine new essays and one reprinted one considers how this series engages with representations of gender, sexuality, queer

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identities and other LGBTQ issues. The contributors address myriad elements of American Horror Story, from the relationship between gender and nature to contemporary masculinities, offering a sustained analysis of a show that has proven to be central to contemporary genre television. Current regulatory guidelines for cardiac safety utilize hERG block and QT interval prolongation as risk markers. This strategy has been successful at preventing harmful drugs from being marketed, but criticized for leading to early withdrawal of potentially safe drugs. Here we collected a series of articles presenting new technological and conceptual advances, including refinement of ex vivo and in vitro assays, screens and models, and in silico approaches reflecting the increasing effort that has been put forward by regulatory agencies, industry, and academia to try and address the need of a more accurate, mechanistically-based paradigm of proarrhythmic potential of drugs. This Research Topic is dedicated to the memory of Dr. J. Jeremy Rice, our wonderful friend and colleague.

This edited volume focuses on the South Atlantic regional and national issues with maritime implications: naval policy, security, transnational organized crime, and Europe's legacy and current influence. The work analyzes the positions in favor and against NATO's extended role in the South Atlantic, the historical and current issues related to the Falklands War, the African national deficits, and initiatives to attend the regional maritime problems. Including contributions from Angolan, Brazilian, Senegalese, and US collaborators, the volume offers eclectic conceptual frameworks, rich historical backgrounds, updated data, original analysis models, and policy recommendations.

Quorum Network (Sensing/Quenching) in Multidrug-Resistant Pathogens
Frontiers Media SA

A groundbreaking history of Europe's "new lefts," from the antifascist 1920s to the anti-establishment 1960s. In the 1960s, the radical youth of Western Europe's New Left rebelled against the democratic welfare state and their parents' antiquated politics of reform. It was not the first time an upstart leftist movement was built on the ruins of the old. This book traces the history of neoleftism from its antifascist roots in the first half of the twentieth century, to its postwar reconstruction in the 1950s, to its explosive reinvention by the 1960s counterculture. Terence Renaud demonstrates why the left in Europe underwent a series of internal revolts against the organizational forms of established parties and unions. He describes how small groups of militant youth such as New Beginning in Germany tried to sustain grassroots movements without reproducing the bureaucratic, hierarchical, and supposedly obsolete structures of Social Democracy and Communism. Neoleftist militants experimented with alternative modes of organization such as councils, assemblies, and action committees. However, Renaud reveals that these same militants, decades later, often came to defend the very institutions they had opposed in their youth. Providing vital historical perspective on the challenges confronting leftists today, this book tells the story of generations of antifascists, left socialists, and anti-authoritarians who tried to build radical democratic alternatives to capitalism and kindle hope in reactionary times.

Recent decades have seen the rise of a global beauty boom, with profound effects on perceptions of bodies worldwide. Against this background, *Beauty and the*

Norm assembles ethnographic and conceptual approaches from a variety of disciplines and across the globe to debate standardization in bodily appearance. Its contributions range from empirical research to exploratory conversations between scholars and personal reflections. Bridging hitherto separate debates in critical beauty studies, cultural anthropology, sociology, the history of science, disability studies, gender studies, and critical race studies, this volume reflects upon the gendered, classed, and racialized body, normative regimes of representation, and the global beauty economy.

The book presents comprehensive coverage of fundamental computer graphics concepts in a simple, lucid, and systematic way. It uses C programming language to implement various algorithms explained in the book. It also introduces the popular OpenGL programming language with illustrative examples of the multiple primitive functions in OpenGL. The book teaches you a wide range of exciting topics such as graphics devices, scan conversion, polygons, segments, 2D and 3D transformations, windowing and clipping, 3D object representation, illumination models and shading algorithms, colour models, visible surface detection algorithms, curves, grammar-based models, turtle graphics, ray tracing, and fractals. The book also explains concepts in animation.

The underlying mechanisms behind aging has long been a great scientific mystery that the biomedical research community has long studied. In developed nations, as the population grows older, increases in life expectancy

is increasingly limited by our relatively poor control of chronic aging-associated diseases such as arterial aging. Among age-related conditions that negatively influence longevity. Growing evidence demonstrates that arterial aging is fundamentally caused by a proinflammatory process that begins at birth and results in detrimental effects that affects every organ system. Vascular aging is the leading risk factor for quintessential cardiovascular diseases such as hypertension and atherosclerosis. With aging, vascular walls develop a pro-inflammatory and stressed microenvironment characterized by both an upregulation of pro-inflammatory chemokines and cytokines as well as a down-regulation anti-inflammatory counterparts. This chronic imbalance in inflammatory regulatory networks is the key driver of changes at the cellular and molecular level that result in hypertensive and atherosclerotic arterial. Thus, an intervention of proinflammation may be a viable therapeutic intervention to reduce morbidity and mortality from cardiovascular diseases. In this eBook, we aim to supply an updated overview of the physiological and biochemical mechanisms that affect inflammation and vascular aging. We believe that this eBook will contribute to the understanding of the pathogenesis of many chronic or age-related diseases, as well as to their treatment with both current and new therapeutic approaches.

This book is a printed edition of the Special Issue "Solid State Lasers Materials, Technologies and Applications" that was published in Applied Sciences

In 1994, almost one million ethnic Tutsis were killed in

the genocide in Rwanda. In the aftermath of the genocide, some of the top-echelon Hutu officers who had organized it fled Rwanda to the eastern Congo (DRC) and set up a new base for military operation, with the goal of retaking power in Kigali, Rwanda. More than twenty years later, these rebel forces comprise a diverse group of refugees, rebel fighters, and civilian dependents who operate from mountain areas in the Congo forests and have a long and complex history of war and violence. While media and human rights reports typically portray this rebel group as one of the most brutal rebel factions operating in the eastern Congo region, *Hutu Rebels* paints a more complex picture. Having conducted ethnographic fieldwork in a rebel camp located deep in the Congo forest, Anna Hedlund explores the micropolitics and practices of everyday life among a community of Hutu rebel fighters and their families, living under the harshest of conditions. She describes the Hutu fighters not only as a military unit with a vision of return to Rwanda but also as a community engaged in the present Congo conflicts. Hedlund focuses on how fighters and their families perceive their own life conditions, how they remember and articulate the events of the genocide, and why they continue to fight in what appears to be an endless conflict. *Hutu Rebels* argues that we need to move beyond compiling catalogs of atrocities and start examining the "ordinary life" of combatants if we want to understand the ways in which violence is expressed in the context of a most brutal conflict.

One of the goals of plant science is to improve

agricultural sustainability, increasing yield, food diversity, and nutrition, while minimizing the negative impact on our environment. In response to internal and external cues, plant hormones control various aspects of plant growth and development. The wealth of our knowledge on plant hormones shall greatly advance sustainable agriculture.

The findings of the contributed studies from this Research Topic reflect important aspects (hot topics) of Quorum network (Sensing/Quenching) in multidrug-resistant pathogens, which including: (i) novel mechanisms of QS and detection techniques, (ii) QS/QQ in clinical multidrug resistant strains, (iii) the relationship between QS/QQ as well as multidrug resistance, and (iv) the application of new QQ therapies.

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