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RESEARCH ARTICLE

Screening novel antiviral compounds to treat Clostridioides difficile infections

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Abstract

Clostridioides difficile is a major cause of nosocomial infections, often associated with individuals who have gut dysbiosis from previous antibiotic therapies. C. difficile infections. (CDI) have a high recurrence rate and impose significant financial and mortality burdens on the healthcare system. Therefore, novel anti-C. difficile drugs are urgently needed to treat and reduce the severity and recurrence of infection. In this study, we screened a library of 618 antiviral drugs to identify a potential candidate for repurposing as novel anti-C. difficile therapeutics. Following our preliminary screening, we identified 9 novel compounds that inhibited C: difficile at a concentration of 16 µM or lower. Among these, 4 antiviral compounds demonstrated the most potent anti-C. difficile activity against a panel of 15 C. difficile isolates, with minimum inhibitory concentrations (MICs) comparable to the drug of choice. vancomycin. These include rottlerin (MIC₅₀ = 0.25 µg/mL), a-mangostin (MIC₅₀ = 1 µg/mL), dryocrassin ABBA (MIC_{vn} = 1 µg/mL), and obefazimod (MIC_{vn} = 4 µg/mL). All exhibited minimal to no activity against representative members of the human out microbiota. Interestingly, a-mangostin, a natural xanthone derived from the mangosteen fruit, exhibited strong bactericidal action, clearing a high inoculum of C. difficile in less than an hour. All other drugs exhibited bacteriostatic activity. Given their characteristics, these compounds show great promise as novel treatments for CDI.

Introduction

Healthcare-associated infections are one of the greatest burdens on healthcare systems. Most bacteria responsible for a part of this burden are associated with antimicrobial resistance, with one notable exception: C. difficile. Despite lacking a significant antimicrobial resistance profile. C. difficile is still considered an urgent threat and one of the deadliest bacterial infections responsible for approximately 30,000 deaths annually, primarily affecting older populations [1–5]. The incidence of C. difficile infections (CDI) in the United States has increased over the last two decades and has remained relatively stable from 2021 to 2022, with the COVID-19 pandemic seeing a drop in cases due to improved strategies preventing the spread of

Screening The Novel

Keith Selby, Robert Giddings

Screening The Novel:

Screening the Novel Robert Giddings, Keith Selby, Chris Wensley, 1990 **Screening The Novel** Keith Selby, Robert Giddings, 2016-07-27 The book takes as its theme the relationship between literature and the contemporary means of production and distribution collectively termed the media in particular film and television. The intention of the book is to explore and evaluate the mutual opportunities and restrictions in this relationship In the grammar of our culture there seems to be an accepted opinion that print is superior in terms of cultural production to film radio or television that to read a book is somehow a higher cultural activity than seeing a play on television or seeing a film By the same token a novel is a superior work of art to film or television. The longer perspective reveals that traditionally there always is a greater respect paid to the previous mode of literary production poetry was superior to drama poetic drama was superior to the novel and film attained cult and classic status initially over television Screening Novel Women Liora Brosh, 2015-12-04 From Hollywood classics like Jane Eyre or Wuthering Heights to the 1990s wave of Jane Austen films adaptations of the British Nineteenth century novel have been sensationally popular This book examines how British and American filmmakers used the domestic novels of the past to construct stable gender ideals for the present Private Screening Richard North Patterson, 1985 The nation is stunned silent when presidential hopeful James Kilcannon is shot dead point blank while sharing the stage at a benefit concert with his rock star girlfriend Stacy Tarrant Fiercely independent attorney Tony Lord defends the assassin in a sensational trial that erupts into the media event of the decade But the most shocking gambit ever witnessed in the history of television has yet to unfold As America watches a mysterious and ruthless figure known only as Phoenix takes to the airwaves in the ultimate act of high tech terror Holding the wife of a wealthy newspaper mogul and Stacy's manager hostage Phoenix mounts a televised trial of his own in which Stacy Tarrant and Tony Lord are helpless defendants millions of viewers are jurors and unless his chilling demands are met Phoenix is the unstoppable executioner Copyright Libri GmbH All rights reserved Photosynthesis Research for Food, Fuel and Future Tingyun Kuang, Congming Lu, Lixin Zhang, 2013-08-31 Photosynthesis is the process by which plants algae and certain species of bacteria transform solar energy into chemical energy in the form of organic molecules In fact all life on the planet ultimately depends on photosynthetic energy conversion The book provides a compressive and state of the art of very recent progress on photosynthesis research The topics span from atom to intact plants from femtosecond reactions to season long production from physics to agronomy The book is to offer advanced undergraduate students graduate students and research specialists the most recent advances in the all aspects of photosynthesis research The book is intended to offer researchers detailed information on the most recent advances in all aspects of photosynthesis research Tingyun Kuang is a professor at Institute of Botany the Chinese Academy of Sciences CAS and the Academician of CAS Congming Lu is a professor at Institute of Botany CAS Lixin Zhang is a professor at Institute of Botany CAS and the Chief Scientist in the National Basic Research Program of China on

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techniques innovative screening techniques and instrument enabled enzyme assays and their underlying principles among other protocols The book serves as a one stop solution for those working with different enzyme protocols in the fields of biochemistry microbiology biotechnology and allied subjects Each chapter offers a full overview of protocol key resources materials required quantifiable and statistical analysis optimization and troubleshooting safety considerations and standards Applications are discussed across distribution and diversity of microbial enzymes enzyme screening enzymes in solid state fermentations enzyme assays enzyme kinetics and biotechnological uses Provides step by step instruction on enzyme protocols and applications with actionable discussions of needed resources materials quantification and statistical analysis optimization and troubleshooting safety considerations and standards Presents easy to read reproducible protocols for researchers and students across academia and industry Includes color diagrams that illustrate key concepts Alcohol-related Diseases Sebastian Mueller, Markus Heilig, 2023-10-24 Alcohol is one of the major risk factors for negative health outcomes worldwide It accounts for more than 60 alcohol related diseases ranging from addiction through liver cirrhosis to cancer Collectively these conditions account for mortality and morbidity that make alcohol use one of the leading preventable causes of disability adjusted life years DALYs lost globally In this book an international faculty covers all aspects of alcohol related disorders ranging from addiction alcohol use disorders AUD to alcohol related diseases of other organs such as liver heart or cancer A special focus is to reach out to primary care physicians who are in the front line of this major health problem The book also provides an update for addiction specialists as well as specialists in internal medicine gastroenterology and hepatology The book is divided into sections that include epidemiology alcohol use disorders and addiction alcohol related liver disease alcoholic hepatitis primary care and interdisciplinary approaches and other alcohol related diseases Besides current diagnostic measures and treatment strategies the book deals with the many underlying molecular and genetic mechanisms of alcohol toxicity Novel insights include prospective data on all cause mortality and the emerging major role of alcohol mediated hemolysis and enhanced red blood cell turnover. The book also aims at guiding policy makers to handle the topic of alcohol in our society more responsibly *Biostimulants in Agriculture* Youssef Screen Adaptations: Jane Austen's Pride and Prejudice Deborah Rouphael, Giuseppe Colla, 2020-03-24 Cartmell, 2010-08-10 The study of literature on screen is a growing area of study in schools and universities Many students have to produce critical essays comparing the novel and film versions of a particular text The Screen Adaptations series offers a wealth of study material from the literary context of the original work through to thought provoking comparisons of the screen versions critical commentary and the afterlife of the films Pride and Prejudice is a classic piece of literature and any new adaptation is a major event With several well known TV and film versions available featuring stars such as Keira Knightley as well as a Bollywood version discussions around how these films interpret the story themes and characters is a popular classroom choice for students and teachers alike This new title in the Screen Adaptations series provides a rich

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