

aacc disruptive technology award

The AACC Disruptive Technology Award: Shaping the Future of Clinical Chemistry

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Introduction: The Impact of the AACC Disruptive Technology Award

The AACC Disruptive Technology Award stands as a prestigious recognition within the field of clinical laboratory science. This annual award celebrates groundbreaking innovations that significantly advance the capabilities and impact of clinical chemistry and laboratory medicine. It shines a spotlight on technologies poised to revolutionize diagnostics, patient care, and the overall healthcare landscape. This article provides a comprehensive overview of the AACC Disruptive Technology Award, exploring its significance, selection criteria, past winners, and the broader implications of the awarded technologies.

Understanding the Selection Criteria for the AACC Disruptive Technology Award

The AACC Disruptive Technology Award is not bestowed lightly. The selection process is rigorous, emphasizing the transformative potential of the submitted technologies. Key criteria include:

Scientific Innovation: The technology must represent a significant advancement beyond the current state-of-the-art in clinical chemistry or

related fields. This includes novel approaches, methodologies, or instrumentation.

Clinical Impact: The technology must demonstrate the potential for substantial improvements in patient care, such as improved diagnostic accuracy, faster turnaround times, reduced costs, or enhanced accessibility of testing.

Commercial Viability: While not a primary focus, the technology should exhibit the potential for successful translation from the research laboratory to clinical practice. This involves considerations of scalability, manufacturing feasibility, and market demand.

Technological Disruption: The core aspect of the AACC Disruptive Technology Award is its focus on technologies that fundamentally change how clinical chemistry is practiced. This may involve paradigm shifts in testing methodologies, data analysis, or diagnostic approaches.

The award committee, comprised of leading experts in clinical chemistry and related fields, meticulously evaluates each submission against these rigorous criteria. The AACC Disruptive Technology Award thus represents a stringent validation of a technology's potential to reshape the future of healthcare.

Past Winners and their Contributions: Illuminating the Impact of the AACC Disruptive Technology Award

Reviewing the past recipients of the AACC Disruptive Technology Award provides invaluable insight into the trajectory of innovation in clinical chemistry. Each winner exemplifies the transformative power of technological advancement within the field. Analyzing their contributions reveals recurring themes, including:

Automation and High-Throughput Analysis: Several past AACC Disruptive Technology Award winners have focused on automating laboratory processes, leading to increased efficiency, reduced human error, and greater capacity for high-volume testing. This is crucial for meeting the demands of modern healthcare systems.

Point-of-Care Diagnostics (POCT): The development of portable and rapid diagnostic tools has been a recurring theme. These innovations enable timely testing at the patient's bedside or in remote locations, significantly improving access to care and accelerating diagnosis. Many AACC Disruptive Technology Award winners have spearheaded advancements in this area.

Next-Generation Sequencing (NGS): The application of NGS technology in clinical chemistry has revolutionized genetic testing and disease diagnostics. The AACC Disruptive Technology Award has recognized significant contributions in this area, highlighting the transformative power of NGS in personalized medicine.

Artificial Intelligence (AI) and Machine Learning (ML): The integration of AI and ML algorithms in clinical diagnostics has enhanced diagnostic accuracy, automated data analysis, and improved the interpretation of complex results. The AACC Disruptive Technology Award has underscored the pivotal role of these technologies in shaping the future of clinical chemistry.

Microfluidics and Lab-on-a-Chip Technologies: Miniaturization of laboratory

processes through microfluidics has enabled more efficient, portable, and cost-effective diagnostics. The AACC Disruptive Technology Award has consistently acknowledged the importance of these innovative technologies.

Each AACC Disruptive Technology Award winner has contributed to pushing the boundaries of clinical chemistry, demonstrating the profound impact of innovation on patient care and the healthcare ecosystem.

The Broader Implications of the AACC Disruptive Technology Award

The AACC Disruptive Technology Award has far-reaching implications beyond simply recognizing individual achievements. It acts as a catalyst for:

Encouraging Innovation: The award inspires researchers and developers to pursue groundbreaking innovations in clinical chemistry. The recognition provides a powerful incentive for developing and implementing transformative technologies.

Accelerating Technology Transfer: The AACC Disruptive Technology Award can facilitate the translation of promising technologies from research laboratories to clinical settings, accelerating their adoption and improving patient outcomes.

Shaping Healthcare Policy: The award highlights the potential of novel technologies to improve healthcare delivery, influencing policy discussions and resource allocation decisions.

Educating the Field: The recognition of the AACC Disruptive Technology Award winners enhances awareness of cutting-edge advancements within the clinical chemistry community, fostering collaboration and knowledge dissemination.

Conclusion: The Enduring Legacy of the AACC Disruptive Technology Award

The AACC Disruptive Technology Award stands as a testament to the continuous evolution of clinical chemistry and laboratory medicine. By recognizing and celebrating groundbreaking innovations, the award drives advancements that improve patient care, enhance healthcare efficiency, and shape the future of diagnostics. The enduring legacy of the AACC Disruptive Technology Award lies in its ability to inspire innovation, accelerate technology transfer, and ultimately transform the healthcare landscape. The AACC Disruptive Technology Award continues to be a beacon of progress within the field, consistently highlighting the transformative power of scientific breakthroughs.

FAQs

1. How can I nominate a technology for the AACC Disruptive Technology Award? Visit the official AACC website for details on the nomination

process, deadlines, and eligibility criteria.

2. What are the judging criteria for the AACC Disruptive Technology Award? The criteria focus on scientific innovation, clinical impact, commercial viability, and technological disruption.
3. What is the prize associated with the AACC Disruptive Technology Award? Check the official AACC website for the current award details and prizes.
4. Are there any specific technology areas prioritized for the AACC Disruptive Technology Award? While no specific areas are prioritized, the award focuses on technologies impacting clinical chemistry and laboratory medicine.
5. How often is the AACC Disruptive Technology Award presented? The award is typically presented annually.
6. Where can I find a list of past winners of the AACC Disruptive Technology Award? The AACC website archives past winners and details about their winning technologies.
7. Is the AACC Disruptive Technology Award open to international submissions? Check the AACC's official website for international submission guidelines.
8. What is the impact of the AACC Disruptive Technology Award on the field of clinical chemistry? The award significantly influences innovation, technology transfer, and the overall advancements in clinical chemistry.
9. How can I learn more about the research behind the AACC Disruptive Technology Award winning technologies? Detailed information on past winners and their research can often be found in the AACC's publications and other scientific literature.

Related Articles:

1. "The Evolution of Point-of-Care Diagnostics and its Impact on Healthcare Access": Explores the advancements in POCT technologies and their role in improving healthcare access, particularly in underserved communities.
2. "Artificial Intelligence in Clinical Chemistry: Enhancing Accuracy and Efficiency": Focuses on the application of AI and ML in clinical chemistry labs, highlighting their impact on diagnostic accuracy and efficiency.
3. "Next-Generation Sequencing: Transforming Genetic Testing in Clinical

Practice": Examines the role of NGS in genetic diagnostics, discussing its impact on personalized medicine and disease management.

4. "Microfluidics: Miniaturizing Laboratory Processes for Enhanced Diagnostics": Details the advantages of microfluidics in creating efficient and portable diagnostic tools.
5. "Automation in Clinical Laboratories: Improving Efficiency and Reducing Errors": Discusses the impact of automation on clinical laboratory workflows and its contribution to improved accuracy and efficiency.
6. "The Role of Big Data Analytics in Clinical Chemistry: Unlocking Insights for Improved Patient Care": Examines the use of big data analytics to improve diagnostics and patient care in clinical chemistry settings.
7. "Challenges and Opportunities in Implementing Novel Diagnostic Technologies": Discusses the challenges and opportunities associated with translating novel diagnostic technologies into clinical practice.
8. "The Future of Clinical Chemistry: Trends and Predictions": Offers insights into future trends and predictions within the field of clinical chemistry, shaping future research and development.
9. "A Comparative Analysis of AACC Disruptive Technology Award Winning Technologies": Provides a detailed comparative analysis of the technologies that have won the AACC Disruptive Technology Award over the years, highlighting key trends and innovations.

aacc disruptive technology award: Newborn Screening for Pompe Disease Wuh-Liang Hwu, Yin-Hsiu Chien, Raymond Wang, 2021-09-02 Pompe disease, also known as acid maltase deficiency or acid alpha-glucosidase deficiency, in its most severe form results in a rapidly progressive, neonatal-onset skeletal and cardiomyopathy, leading to early infantile death without treatment. The development of treatment with recombinant enzyme replacement therapy radically transformed the clinical trajectory of those affected, enabling long-term ventilator-free survival with resolution of cardiomyopathy. These positive clinical outcomes resulted in the implementation of newborn screening programs for Pompe disease across the world. This Special Issue highlights some of the experiences of Pompe screening programs worldwide and discusses public policy and ethical issues elicited by presymptomatic screening for Pompe disease.

aacc disruptive technology award: American Association of Community Colleges Julie Elkus, 2020-09-15

aacc disruptive technology award: 68th AACC Annual Scientific Meeting Abstract eBook American Association for Clinical Chemistry, 2016-06-14 The poster abstracts presented at the 68th AACC Annual Scientific Meeting & Clinical Lab Expo and published in Clinical Chemistry, Vol. 62, No. 10, Supplement, 2016.

aacc disruptive technology award: Mental Health, Substance Use, and Wellbeing in Higher Education National Academies of Sciences, Engineering, and Medicine, Health and

Medicine Division, Policy and Global Affairs, Board on Health Sciences Policy, Board on Higher Education and Workforce, Committee on Mental Health, Substance Use, and Wellbeing in STEMM Undergraduate and Graduate Education, 2021-03-05 Student wellbeing is foundational to academic success. One recent survey of postsecondary educators found that nearly 80 percent believed emotional wellbeing is a very or extremely important factor in student success. Studies have found the dropout rates for students with a diagnosed mental health problem range from 43 percent to as high as 86 percent. While dealing with stress is a normal part of life, for some students, stress can adversely affect their physical, emotional, and psychological health, particularly given that adolescence and early adulthood are when most mental illnesses are first manifested. In addition to students who may develop mental health challenges during their time in postsecondary education, many students arrive on campus with a mental health problem or having experienced significant trauma in their lives, which can also negatively affect physical, emotional, and psychological wellbeing. The nation's institutions of higher education are seeing increasing levels of mental illness, substance use and other forms of emotional distress among their students. Some of the problematic trends have been ongoing for decades. Some have been exacerbated by the COVID-19 pandemic and resulting economic consequences. Some are the result of long-festering systemic racism in almost every sphere of American life that are becoming more widely acknowledged throughout society and must, at last, be addressed. Mental Health, Substance Use, and Wellbeing in Higher Education lays out a variety of possible strategies and approaches to meet increasing demand for mental health and substance use services, based on the available evidence on the nature of the issues and what works in various situations. The recommendations of this report will support the delivery of mental health and wellness services by the nation's institutions of higher education.

aacc disruptive technology award: *Beer* Charles W. Bamforth, 2008-04-15 This important and extremely interesting book is a serious scientific and authoritative overview of the implications of drinking beer as part of the human diet. Coverage includes a history of beer in the diet, an overview of beer production and beer compositional analysis, the impact of raw materials, the desirable and undesirable components in beer and the contribution of beer to health, and social issues. Written by Professor Charlie Bamforth, well known for a lifetime's work in the brewing world, *Beer: Health and Nutrition* should find a place on the shelves of all those involved in providing dietary advice.

aacc disruptive technology award: *Carl A. Spaatz and the Air War in Europe* Richard G. Davis, 1993 Offers the first detailed review of Carl A. Spaatz as a commander. Examines how the highest ranking U.S. airman in the European Theater of Operations of World War II viewed the war, worked with the British, and wielded the formidable air power at his disposal. Identifies specifically those aspects of his leadership that proved indispensable to the Allied Victory over Nazi Germany. Chapters: Carrying the Flame: From West Point to London, 1891-1942; Tempering the Blade: The North African Campaign, 1942-1943; Mediterranean Interlude: From Pantelleria to London, 1943; The Point of the Blade: Strategic Bombing and the Cross-Channel Invasion, 1944; and The Mortal Blow: From Normandy to Berlin, 1944-1945. Maps, charts and b & w photos.

aacc disruptive technology award: Mass Spectrometry, An Issue of Clinics in Laboratory Medicine Nigel Clarke, Andrew N. Hoofnagle, 2011-12-28 This issue of Clinics in Laboratory Medicine, Guest Edited by Nigel Clarke, MD, and Andrew Hoofnagle, MD, will focus on Mass Spectrometry, with topics including: Proteins; Peptides; Small Molecules: Toxicology; Small Molecules: Diagnostics; and Regulatory Considerations.

aacc disruptive technology award: Open educational resources: policy, costs, transformation Miao, Fengchun, Mishra, Sanjaya, McGreal, Rory, 2016-04-18

aacc disruptive technology award: *An Interactive 24-Hour Recall for Assessing the Adequacy of Iron and Zinc Intakes in Developing Countries* Elaine L. Ferguson, Rosalind S. Gibson, International Life Sciences Institute, 2000-01-01

aacc disruptive technology award: *Root Ecology* Hans de Kroon, Eric J.W. Visser, 2003-05-21 In the course of evolution, a great variety of root systems have learned to overcome the many

physical, biochemical and biological problems brought about by soil. This development has made them a fascinating object of scientific study. This volume gives an overview of how roots have adapted to the soil environment and which roles they play in the soil ecosystem. The text describes the form and function of roots, their temporal and spatial distribution, and their turnover rate in various ecosystems. Subsequently, a physiological background is provided for basic functions, such as carbon acquisition, water and solute movement, and for their responses to three major abiotic stresses, i.e. hard soil structure, drought and flooding. The volume concludes with the interactions of roots with other organisms of the complex soil ecosystem, including symbiosis, competition, and the function of roots as a food source.

aacc disruptive technology award: I Am AspienWoman Tania Marshall, 2015-08-12 Have you ever wondered about a friend, a partner, a mother, sister or daughter? Wondered why she says she feels 'different'? Maybe she is a woman on the Autism spectrum, with a unique constellation of super-abilities, strengths and challenges?

aacc disruptive technology award: 6 Times Thinner Babar Afzal, 2017-03-29 Born in Jammu & Kashmir, Babar leaves his town for good with a promise of never coming back to the troubled land which is engulfed with terrorism and no opportunities for young people. In this book, he takes us on his life's journey from the corporate world to the world which is wild. He asks questions and tries to find answers and keeps responding to the problems around him which turn into a sequence of events that force him to come back. This is Babar's journey to discover his true calling to become a Pashmina artist, activist and a Pashmina goat shepherd (the only one in the world) to save this magnificent specie in Himalayas and the Pashmina eco-system that preserves the ancient culture, religion and heritage of Himalayas. A journey to shed excess baggage (both internal and external) and become 6 times thinner, to bring in social positive change. Along the way he explains the Wisdom of Shepherds which he gets from this tribe which are lessons for businesses, start-ups, students, home-makers, executives, consultants, policy makers, politicians and more. A simple yet inspiring journey, to save Authentic Pashmina, which is rare to see in these hyper times.

aacc disruptive technology award: Educational Research and Innovation Open Educational Resources A Catalyst for Innovation Orr Dominic, Rimini Michele, Van Damme Dirk, 2015-12-01 Education is the key to economic, social and environmental progress, and governments around the world are looking to improve their education systems.

aacc disruptive technology award: Sustainable Development and Social Responsibility—Volume 2 Ahmed N. Al-Masri, Yousef Al-Assaf, 2020-01-13 This book gathers high-quality research papers presented at the 2nd AUE international research conference, AUEIRC 2018, which was organized by the American University in the Emirates, Dubai, and held on November 13th-15th, 2018. The book is broadly divided into two main sections: Sustainability and Smart Business, and Sustainability and Creative Industries. The broad range of topics covered under these sections includes: risk assessment in agriculture, corporate social responsibility and the role of intermediaries, the impact of privatizing health insurance, political events and their effect on foreign currency exchange, the effect of sustainable HR practices on financial performance, sustainability integration in the supply chain and logistics, gender inequality in the MENA economies, the panel data model, the model of sustainable marketing in the era of Industry 4.0, micro-enterprises as a tool for combating unemployment, the impact of financial education and control on financial behavior, measuring financial and asset performance in agricultural firms, a comprehensive strategic approach to sustainability in the UAE, sustainability and project finance, HR analytics, FaD or fashion for organizational sustainability, a conceptual framework of sustainable competitive advantages, psychology of organizational sustainability, Blockchain technology and sustainability, veganism and sustainability, institution building from an emotional intelligence perspective, sustainable concrete production using CWP, occupants' behavior and energy usage in Emirati houses, the effect of shop lighting on consumer behavior, multimedia applications in digital transformation art, integrating biomimicry principles in sustainable architecture, experimental sustainable practices in fashion education, technology-assisted student-centered learning for civil

engineering, and a 10-step design process for architectural design studios. All contributions present high-quality original research work, findings and lessons learned in practical development.

aacc disruptive technology award: Pediatric Laboratory Medicine Patricia M. Jones, Dennis J. Dietzen, Shannon Haymond, Michael J. Bennett, 2017-05-22 A complete full-color guide to medical laboratory test selection and test result interpretation for disorders and diagnoses specific to pediatric and neonatal populations Laboratory medicine practiced at a pediatric institution has unique characteristics specific to infants and children, who differ both metabolically and biochemically from adults. Many aspects of laboratory medicine are affected by these differences, from basic, day-to-day operational issues through test selection for pediatric-specific disorders. However, most references in laboratory medicine merely touch upon pediatrics – and offer little if any coverage of variations in testing and results for different age groups, or the many diseases and disorders most common in infants and children. Pediatric Laboratory Medicine is specifically written to fill this critical void in the literature. Now, for the first time, all important reference material concerning pediatric laboratory medicine is available in one convenient, up-to-date resource. Pediatric Laboratory Medicine teaches the effective operation of a pediatric clinical operation, and also provides guidelines for teaching trainees. This unique text delivers the how-to instruction necessary to ensure proper handling and testing of pediatric specimens to ensure accurate diagnosis. Valuable learning aids include learning objectives, end-of-chapter review questions, and references for further study. Written by experienced clinicians, the book's seventeen chapters cover virtually every important topic – from daily issues in the practice of pediatric laboratory medicine to common tests and considerations to inborn errors of metabolism and therapeutic drug monitoring. Enhanced by numerous tables and high-quality full-color images, this authoritative resource delivers everything necessary for effective pediatric laboratory medicine training and practice.

aacc disruptive technology award: Production, Handling and Characterization of Particulate Materials Henk G. Merkus, Gabriel M.H. Meesters, 2015-11-26 This edited volume presents most techniques and methods that have been developed by material scientists, chemists, chemical engineers and physicists for the commercial production of particulate materials, ranging from the millimeter to the nanometer scale. The scope includes the physical and chemical background, experimental optimization of equipment and procedures, as well as an outlook on future methods. The book addresses issues of industrial importance such as specifications, control parameter(s), control strategy, process models, energy consumption and discusses the various techniques in relation to potential applications. In addition to the production processes, all major unit operations and characterization methods are described in this book. It differs from other books which are devoted to a single technique or a single material. Contributors to this book are acknowledged experts in their field. The aim of the book is to facilitate comparison of the different unit operations leading to optimum equipment choices for the production, handling and storage of particulate materials. An advantage of this approach is that unit operations that are common in one field of application are made accessible to other fields. The overall focus is on industrial application and the book includes some concrete examples. The book is an essential resource for students or researchers who work in collaboration with manufacturing industries or who are planning to make the switch from academia to industry.

aacc disruptive technology award: Nutraceutical and Functional Food Regulations in the United States and Around the World Debasis Bagchi, 2014-02-25 This fully revised and updated edition begins with insights into the scope, importance and continuing growth opportunities in the nutraceutical and functional food industries and explores the latest regulatory changes and their impacts. The book demonstrates the global scenario of the acceptance and demand for these products and explores the regulatory hurdles and claim substantiation of these foods and dietary supplements, as well as addressing the intricate aspects of manufacturing procedures. As the public gains confidence in the quality of these products based on sophisticated quality control, a broad spectrum of safety studies and GRAS, peer-reviewed publications and cutting-edge human clinical studies have emerged. An increasing number of additional populations around-the-world now

recognize the efficacy and functions of nutraceuticals and functional foods as established by those scientific research studies. As a result, a number of structurally and functionally active novel nutraceuticals and several new functional beverages have been introduced into the marketplace around the world. - Features fully revised and updated information with current regulations from around the world, including GRAS status and DSHEA regulators - Offers 45% new content including three new chapters -NSF: Ensuring the Public Health and Safety Aspects of Nutraceuticals and Functional Foods; Role of the United States Pharmacopeia in the Establishment of Nutraceuticals and Functional Food Safety; An Overview on the New Dietary Ingredient (NDI) and Generally Recognized as Safe (GRAS) Status, and the addition of cGMP regulations for dietary supplements - Includes insight into working with regulatory agencies, processes and procedures - Provides a link to the contact information for most regulatory bodies for readers wishing to gain further knowledge

aacc disruptive technology award: Leadership Strategies for Community College Executives Gunder Myran, George A. Baker, Beverly Simone, Tony Zeiss, 2003 Presidents, executive teams, governing boards, administrators, faculty leaders, and graduate students alike will benefit from this comprehensive primer. Designed to help professionals at all stages of their careers, this resource is particularly useful to the growing number of new CEOs. Thorough attention is paid to operational principles and organizational design as well as policy development in both general and specific contexts such as students, curriculum, staff, and resource development. Look for special chapters on crisis management as well as practical advice for new CEOs.

aacc disruptive technology award: Towards a New Partnership with Africa Steve Kayizzi-Mugerwa, Adebayo O. Olukoshi, Lennart Wohlgemuth, Nordiska Afrikainstitutet, 1998 This book is part of a study on future relations between Sweden and Africa and contains a selection of papers which served as background material to the debate at a conference in 1997 with scholars and policymakers from both Africa and Sweden.

aacc disruptive technology award: I Am Aspiengirl Tania Marshall, 2014-06-30 Have you ever wondered why she says she feels different to her peers? Wondered why life seems challenging for her? Her peers seem to gracefully and naturally meet their milestones, yet she has reached some developmental milestones early and some late. She may have spoken and read early, asking an endless array of questions. Maybe at age four she was teaching herself to read as you drove down the road by reading street signs. She may have been an overly active child, had sensory issues, or had a speech delay. You knew she was bright from early on, with a sprinkle of some anxiety, social and eating issues, yet the professionals just cannot find an explanation that completely fits her. She may be very artistic, whether she sings, draws, paints, or writes, at times, too mature for her age. Yet, she struggles socially and emotionally, acting and appearing younger than her peers. She may be ten years old now, yet none of your research completely fits her or maybe you have just now come across some information on females that completely makes sense to you. Maybe she is Aspien, a young female with Asperger Syndrome or High-Functioning Autism. She has a unique constellation of super-abilities, strengths and challenges. She may feel or say that she is from another Planet, Planet Aspien(r). If you are looking for a book on the often perplexing and unique female Autism Spectrum traits, then this is the book for you. Watch for I am AspienWoman, coming soon.

aacc disruptive technology award: Neo-Segregation at Yale Dion J. Pierre, Peter W. Wood, 2019-04-29 The Supreme Court's 1954 decision in Brown v. Board of Education and the reinvigorated Civil Rights Movement spurred American colleges and universities by the early 1960s to a good-faith effort to achieve racial integration. To overcome the shortage of black students who were prepared for elite academic programs, universities such as Yale began to admit substantial numbers of under-qualified black students. Disaster ensued. More than a third of these students dropped out in the first year and those who remained were often embittered by the experience. They turned to each other for support and found inspiration in black nationalism. What emerged by the late sixties were radical and sometimes militant black groups on campus, rejecting the ideal of racial integration and voicing a new separatist ethic. On campus after campus, black separatists won concessions from administrators who were afraid of further alienating blacks. The pattern of college

administrators rolling over to black separatist demands came to dominate much of American higher education. The old integrationist ideal has been sacrificed almost entirely. Instead of offering opportunities for students to mix freely with students of dissimilar backgrounds, colleges promote ethnic enclaves, stoke racial resentment, and build organizational structures on the basis of group grievance. Neo-segregation is the voluntary racial segregation of students, aided by college institutions, into racially exclusive housing and common spaces, orientation and commencement ceremonies, student associations, scholarships, and classes. This case study of Yale University is part of a larger project from the National Association of Scholars, *Separate but Equal, Again: Neo-Segregation in American Higher Education*. The Yale case study explains: 1) Yale's attempt to deal with the academic deficiencies of black students alternately by segregating them into remedial programs or mainstreaming them into programs they couldn't handle. 2) The readiness of black students to adopt race nationalist ideas and theatrics in preference to the ideals of racial integration. 3) Yale's willingness to buy temporary racial peace on campus by conceding to segregationist demands, even when this meant sacrificing academic standards and principles of equal application of rules regardless of race.

aacc disruptive technology award: *Genomics of Rare Diseases* Claudia Gonzaga-Jauregui, James R. Lupski, 2021-06-12 *Genomics of Rare Diseases: Understanding Disease Genetics Using Genomic Approaches*, a new volume in the Translational and Applied Genomics series, offers readers a broad understanding of current knowledge on rare diseases through a genomics lens. This clear understanding of the latest molecular and genomic technologies used to elucidate the molecular causes of more than 5,000 genetic disorders brings readers closer to unraveling many more that remain undefined and undiscovered. The challenges associated with performing rare disease research are also discussed, as well as the opportunities that the study of these disorders provides for improving our understanding of disease architecture and pathophysiology. Leading chapter authors in the field discuss approaches such as karyotyping and genomic sequencing for the better diagnosis and treatment of conditions including recessive diseases, dominant and X-linked disorders, de novo mutations, sporadic disorders and mosaicism. - Compiles applied case studies and methodologies, enabling researchers, clinicians and healthcare providers to effectively classify DNA variants associated with disease and patient phenotypes - Discusses the main challenges in studying the genetics of rare diseases through genomic approaches and possible or ongoing solutions - Explores opportunities for novel therapeutics - Features chapter contributions from leading researchers and clinicians

aacc disruptive technology award: *Writing for Publication* Mary Renck Jalongo, Olivia N. Saracho, 2016-05-24 This book offers systematic instruction and evidence-based guidance to academic authors. It demystifies scholarly writing and helps build both confidence and skill in aspiring and experienced authors. The first part of the book focuses on the author's role, writing's risks and rewards, practical strategies for improving writing, and ethical issues. Part Two focuses on the most common writing tasks: conference proposals, practical articles, research articles, and books. Each chapter is replete with specific examples, templates to generate a first draft, and checklists or rubrics for self-evaluation. The final section of the book counsels graduate students and professors on selecting the most promising projects; generating multiple related, yet distinctive, publications from the same body of work; and using writing as a tool for professional development. Written by a team that represents outstanding teaching, award-winning writing, and extensive editorial experience, the book leads teacher/scholar/authors to replace the old "publish or perish" dictum with a different, growth-seeking orientation: publish and flourish.

aacc disruptive technology award: *The Transfer Experience* John N. Gardner, Michael J. Rosenberg, Andrew K. Koch, 2023-07-03 Co-published with At last there is a handbook that everyone in higher education can use to help increase transfer student success. This comprehensive resource has been brought together to meet the need for a truly holistic approach to the transfer experience. The book brings together research, theory, practical applications, programmatic illustrations, case studies, encouragement, and inspiration, and is supplemented by an online compendium for

continual updates of resources, case studies, and new developments in the world of transfer. Based on a totally different way of thinking about, understanding, and acting to increase transfer student success, The Transfer Experience goes far beyond the traditional, limited view of transfer as a technical process simply about articulating credits, a stage of student development, or a novel enrollment management strategy. Rather, the book introduces a stimulating array of new perspectives, resources, options, models, and recommendations for addressing the many needs of this huge cohort – making the academic, civic, and social justice cases for improving transfer at both transfer-sending and transfer-receiving institutions.

aacc disruptive technology award: *Evidence-based Laboratory Medicine* Christopher P. Price, Robert H. Christenson, 2003

aacc disruptive technology award: *Global Corruption Report 2006* Transparency International, 2005-12-20 TI has once again shown its ability to combine research and policy analysis not just to shine a light on the deeply embedded problems of corruption ... but to propose progressive solutions. Former World Bank President James Wolfensohn on the Global Corruption Report In the health sector, corruption is a matter of life or death. It can take many forms: from medical professionals who sell medicines or services that should be freely available, to high-level government officials who embezzle money from health budgets, to pharmaceutical companies that buy influence over research agendas. The impact of corruption is always felt by the end user -- the sick person who is forced to pay over the odds or who is given unsafe, counterfeit medicines. The 2006 edition of Transparency International's Global Corruption Report shows the impact that corruption has on health care in rich and poor countries. From high-level bribery in Costa Rica to informal payments in Hungary, case studies from around the world explore the characteristics of the health sector that make it so prone to corruption. In a special section dedicated to corruption in HIV/AIDS, the report warns that the large sums being poured into fighting the world's deadliest diseases need to be safeguarded against abuse. There is also a detailed analysis of the problems of the pharmaceutical system. The report also offers an annual round-up of worldwide developments and tracks major trends in more than 40 countries. The Global Corruption Report 2006 is the only report of its kind, and is an essential reference source for anyone who wants the latest research on how corruption affects everything from health to education and the oil and gas industries.

aacc disruptive technology award: *Plant Breeding in the Omics Era* Rodomiro Ortiz Ríos, 2015-09-16 The field of plant breeding has grown rapidly in the last decade with breakthrough research in genetics and genomics, inbred development, population improvement, hybrids, clones, self-pollinated crops, polyploidy, transgenic breeding and more. This book discusses the latest developments in all these areas but explores the next generation of needs and discoveries including omics beyond genomics, cultivar seeds and intellectual and property rights. This book is a leading-edge publication of the latest results and forecasts important areas of future needs and applications.

aacc disruptive technology award: *Disaster Resilience* National Academies, Policy and Global Affairs, Committee on Science, Engineering, and Public Policy, Committee on Increasing National Resilience to Hazards and Disasters, 2012-12-29 No person or place is immune from disasters or disaster-related losses. Infectious disease outbreaks, acts of terrorism, social unrest, or financial disasters in addition to natural hazards can all lead to large-scale consequences for the nation and its communities. Communities and the nation thus face difficult fiscal, social, cultural, and environmental choices about the best ways to ensure basic security and quality of life against hazards, deliberate attacks, and disasters. Beyond the unquantifiable costs of injury and loss of life from disasters, statistics for 2011 alone indicate economic damages from natural disasters in the United States exceeded \$55 billion, with 14 events costing more than a billion dollars in damages each. One way to reduce the impacts of disasters on the nation and its communities is to invest in enhancing resilience-the ability to prepare and plan for, absorb, recover from and more successfully adapt to adverse events. *Disaster Resilience: A National Imperative* addresses the broad issue of increasing the nation's resilience to disasters. This book defines national resilience, describes the

state of knowledge about resilience to hazards and disasters, and frames the main issues related to increasing resilience in the United States. It also provide goals, baseline conditions, or performance metrics for national resilience and outlines additional information, data, gaps, and/or obstacles that need to be addressed to increase the nation's resilience to disasters. Additionally, the book's authoring committee makes recommendations about the necessary approaches to elevate national resilience to disasters in the United States. Enhanced resilience allows better anticipation of disasters and better planning to reduce disaster losses-rather than waiting for an event to occur and paying for it afterward. Disaster Resilience confronts the topic of how to increase the nation's resilience to disasters through a vision of the characteristics of a resilient nation in the year 2030. Increasing disaster resilience is an imperative that requires the collective will of the nation and its communities. Although disasters will continue to occur, actions that move the nation from reactive approaches to disasters to a proactive stance where communities actively engage in enhancing resilience will reduce many of the broad societal and economic burdens that disasters can cause.

aacc disruptive technology award: Applied Laboratory Medicine Rex B. Conn, 1992
Presents the clinical aspects of disease in the context of readily acquired diagnostic data. Organized by body system, 70 of the most common disorders, including AIDS, are featured in case study settings. Contents include diagnosis determination through the presentation of patient history, clinical evaluation, and laboratory and other diagnostic data. Each chapter follows the diagnosis determination with a discussion of differential diagnosis, definition of disease, and a brief principle of treatment.

aacc disruptive technology award: Nitrogen Fixation in Plants R. O. D. Dixon, Christopher T. Wheeler, 1986 THE IMPORTANCE OF NITROGEN FIXATION ON MANAGED AND NATURAL ECOSYSTEMS.

aacc disruptive technology award: Community College Journal , 1992

aacc disruptive technology award: Big Dirty Money Jennifer Taub, 2021-09-28
“Blood-boiling...with quippy analysis...Taub proposes straightforward fixes and ways everyday people can get involved in taking white-collar criminals to task.”—San Francisco Chronicle How ordinary Americans suffer when the rich and powerful use tax dodges or break the law to get richer and more powerful—and how we can stop it. There is an elite crime spree happening in America, and the privileged perps are getting away with it. Selling loose cigarettes on a city sidewalk can lead to a choke-hold arrest, and death, if you are not among the top 1%. But if you're rich and commit mail, wire, or bank fraud, embezzle pension funds, lie in court, obstruct justice, bribe a public official, launder money, or cheat on your taxes, you're likely to get off scot-free (or even win an election). When caught and convicted, such as for bribing their kids' way into college, high-class criminals make brief stops in minimum security Club Fed camps. Operate the scam from the executive suite of a giant corporation, and you can prosper with impunity. Consider Wells Fargo & Co. Pressured by management, employees at the bank opened more than three million bank and credit card accounts without customer consent, and charged late fees and penalties to account holders. When CEO John Stumpf resigned in shame, the board of directors granted him a \$134 million golden parachute. This is not victimless crime. Big Dirty Money details the scandalously common and concrete ways that ordinary Americans suffer when the well-heeled use white collar crime to gain and sustain wealth, social status, and political influence. Profiteers caused the mortgage meltdown and the prescription opioid crisis, they've evaded taxes and deprived communities of public funds for education, public health, and infrastructure. Taub goes beyond the headlines (of which there is no shortage) to track how we got here (essentially a post-Enron failure of prosecutorial muscle, the growth of too big to jail syndrome, and a developing implicit immunity of the upper class) and pose solutions that can help catch and convict offenders.

aacc disruptive technology award: Anticipatory Management William C. Ashley, James L. Morrison, 1995

aacc disruptive technology award: Diagnostic Enzymology Steven Kazmierczak, Hassan M. E. Azzazy, 2014-05-08 This book is the 2nd improved and expanded edition of Clinical Enzymology

(Lott/Wolf, 1987). It includes case studies and guidelines for specialists of laboratory medicine and clinicians, devotes each chapter to a specific enzyme or protein marker, contains case studies and guidelines, a section on marker biochemistry and physiology as well as a section on special pathology and analysis. The clear, didactic structure and the multiple choice questions also make the book valuable reading for graduate students in the fields of clinical pathology and laboratory medicine.

aacc disruptive technology award: Economic Model Predictive Control Helen Durand, Panagiotis D. Christofides, 2018-06-19 Economic Model Predictive Control (EMPC) is a control strategy that moves process operation away from the steady-state paradigm toward a potentially time-varying operating strategy to improve process profitability. The EMPC literature is replete with evidence that this new paradigm may enhance process profits when a model of the chemical process provides a sufficiently accurate representation of the process dynamics. Systems using EMPC often neglect the dynamics associated with equipment and are often neglected when modeling a chemical process. Recent studies have shown they can significantly impact the effectiveness of an EMPC system. Concentrating on valve behavior in a chemical process, this monograph develops insights into the manner in which equipment behavior should impact the design process for EMPC and to provide a perspective on a number of open research topics in this direction. Written in tutorial style, this monograph provides the reader with a full literature review of the topic and demonstrates how these techniques can be adopted in a practical system.

aacc disruptive technology award: User Localization Strategies in the Face of Technological Breakdown Isidore Kafui Dorpenyo, 2020-09-02 This book examines Ghana's use of the fingerprint biometric technology in order to further conversations about localization championed by technical communication scholars. Localization, in this case, refers to the extent to which users demonstrate their knowledge of use by subverting and reconfiguring the purpose of technology to solve local problems. Dorpenyo argues that the success of a technology depends on how it meets the users' needs and the creative efforts users put into use situations. In User Localization Strategies in the Face of Technological Breakdown, Dorpenyo advocates studying how users of technological systems construct knowledge about the technology and develop local strategies to solve technological breakdowns. By analyzing technical documents and interview transcripts, the author identifies and advances three user localization strategies: linguistic localization, subversive localization, and user-heuristic experience localization, and considers how biometric systems can become a tool of marginalization.

aacc disruptive technology award: Discrete Event Systems Christos G. Cassandras, 1993

aacc disruptive technology award: Global Point of Care Gerald J. Kost, American Association for Clinical Chemistry Staff, 2014-07

aacc disruptive technology award: *On Our Terms* Stansfield, 2018-02

aacc disruptive technology award: *Disruptive Technologies for Society 5.0* Vikram Bali, Vishal Bhatnagar, Sapna Sinha, Prashant Johri, 2021-11-14 This book investigates how we as citizens of Society 5.0 borrow the disruptive technologies like Blockchain, IoT, cloud and software-defined networking from Industry 4.0, with its automation and digitization of manufacturing verticals, to change the way we think and act in cyberspace incorporated within everyday life. The technologies are explored in Non-IT sectors, their implementation challenges put on the table, and new directions of thought flagged off. *Disruptive Technologies for Society 5.0: Exploration of New Ideas, Techniques, and Tools* is a pathbreaking book on current research, with case studies to comprehend their importance, in technologies that disrupt the de facto. This book is intended for researchers and academicians and will enable them to explore new ideas, techniques, and tools.

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