

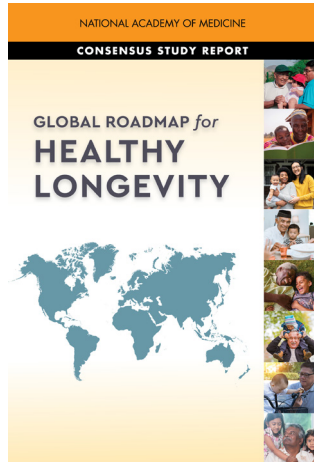
The National Academies Press Spring and Summer 2023





Update on Last Season's Titles
New Titles for Spring and Summer

Update on Last Season's Titles



Global Roadmap for Healthy Longevity

- Doody's Core Titles
- London Review of Books
- Digital Ad on The Nation's Health website (APHA) Fall 2022
- Digital Ad on GSA Website January 2023
- Featured at Gerontological Society of America Annual Conference November 2022
- Featured at APHA Annual Conference November 2022



Oil in the Sea IV

- Ad in The Nation
- Ad in CHOICE
- NYRB Fall AUPresses insert November 2022
- LRB AUPresses insert November 2022
- Ad in EOS Buzz



July 2023

6 x 9, 450 pages

Paperback: 978-0-309-69669-2

\$40.00

Ebook Available: \$29.99

Advancing Antiracism, Diversity, Equity, and Inclusion in STEMM Organizations Beyond Broadening Participation

Individuals from minoritized racial and ethnic groups continue to face systemic barriers that impede their ability to access, persist, and thrive in science, technology, engineering, mathematics, and medicine (STEMM) higher education and workforce. Without actively dismantling policies and practices that disadvantage people from minoritized groups, STEMM organizations stand to lose much needed talent and innovation as well as the ideas that come from having a diverse workforce.

Advancing Anti-Racism, Diversity, Equity and Inclusion in STEM Organizations examines the backdrop of systemic racism in the United States that has harmed and continues to harm people from minoritized groups, which is critical for understanding the unequal representation in STEMM. This book outlines actions that top leaders and gatekeepers in STEMM organizations, such as presidents and chief executive officers, can take to foster a culture and climate of antiracism, diversity, equity, and inclusion that is genuinely accessible and supportive to all.

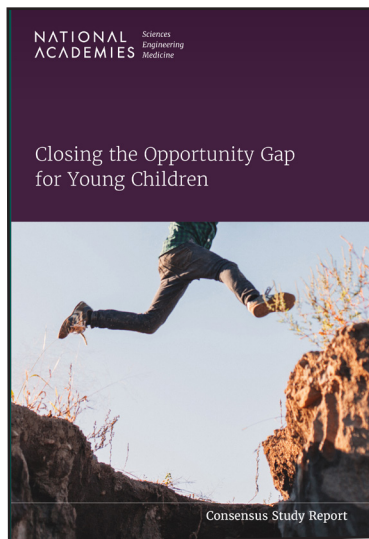
Committee on Advancing Antiracism, Diversity, Equity, and Inclusion in STEM Organizations | Gilda A. Barabino, Susan T. Fiske, Layne A. Scherer, and Emily A. Vargas, Editors | National Academies of Sciences, Engineering, and Medicine

“The concepts of antiracism, diversity, equity, and inclusion are not goals for which a simple checklist will indicate success. Rather, the goal is to create environments that focus on inclusive excellence, where all participants have access to educational and professional opportunities, feel included, and have the resources to actualize their full potential. STEMM organizations will require ongoing leadership, resources, and commitment to ensure that these values become part of an intentionally maintained organizational culture.” - Gilda Barabino, president of Olin College of Engineering and professor of biomedical and chemical engineering, and co-chair of the authoring committee

The release of this report coincides with a growing awareness of the persistent challenges of racism, diversity, equity, and inclusion and with an increased interest in addressing these issues in STEMM. The scientific evidence and lived experiences presented in this report offer critical insights and form a strong foundation for the committee's conclusions and recommendations.

"I applaud NASEM for taking a data-driven approach to assessing how racism individually and systemically impedes historically marginalized racial and ethnic groups in STEMM careers. The report examines the broad scope of these challenges and offers recommendations that will serve as the basis for a path forward for change. Like former Chairwoman Eddie Bernice Johnson, who called for this report, I believe that we must do more to acknowledge, understand, and address racial disparities in STEMM educational and professional environments. I call on the Biden-Harris Administration, the federal science agencies, and STEM organizations at all levels to devote their attention, leadership, and resources to addressing the recommendations of this report." - Ranking Member Zoe Lofgren (D-CA).

"Today, the National Academies of Science, Engineering, and Medicine (NASEM) released a report that makes recommendations for advancing antiracism, diversity, equity, and inclusion in science, technology, engineering, mathematics, and medicine (STEMM) organizations. I thank NASEM for their thoughtful report that identifies conditions that create systemic barriers and impede the full talent pool from pursuing and advancing in STEMM careers. NIH provided funding for the report to help inform NIH's ongoing efforts to improve the diversity of the scientific workforce and address structural racism in biomedical research." - Lawrence A. Tabak, D.D.S., Ph.D. (Performing the Duties of the Director, NIH)



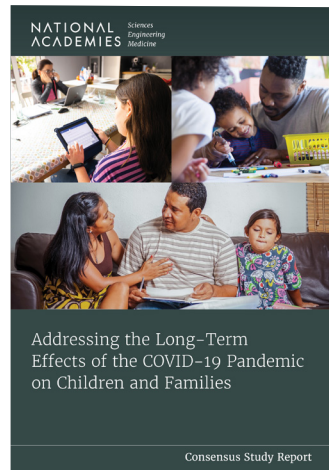
July 2023
6 x 9, pages
Paperback: 978-0-309-69461-2
\$40.00
Ebook Available: \$24.99

Closing the Opportunity Gap for Young Children

While many young children are thriving and have access to the conditions and resources they need to grow up healthy, a substantial number of young children face more challenging conditions. These conditions—rooted in a racialized distribution of resources in the United States—have compounded over time, and today manifest as inadequate access to health care and well funded quality schools, poverty, food insecurity, lack of mental health care, and exposure to violence. In addition to the effects on future academic outcomes, these challenges can also lead to disparities in physical and mental health and wellbeing. Opportunity gaps arise from the unequal and inequitable distribution of resources and experiences on the basis of race, ethnicity, socioeconomic status, English proficiency, immigration status, community wealth, familial situations, geography, or other factors that contribute to or perpetuate inequities in well-being across groups of young children in outcomes including health, social emotional development, and education.

Closing the Opportunity Gap for Young Children describes the opportunity gaps that confront children and explores the negative effects that result. This book makes the case that, more than creating new tools to close this pernicious gap, we as a nation need to mobilize what we already have and know, or what we could know if we compared notes and collaborated across policy and practice silos. The recommendations of this book can improve conditions and promote success for children – at home, in communities, and in schools.

Committee on Exploring the Opportunity Gap for Young Children 16 from Birth to Age Eight | LaRue Allen and Rebekah Hutton, Editors | National Academies of Sciences, Engineering, and Medicine



June 2023

6 x 9, 306 pages

Paperback: 978-0-309-69695-1

\$35.00

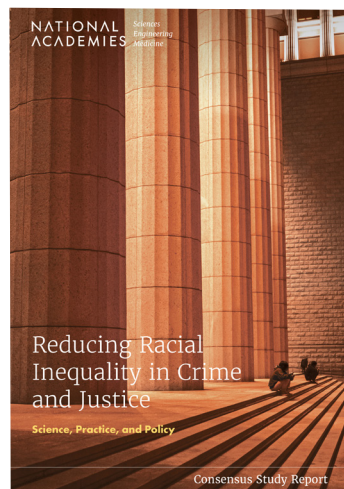
Ebook Available: \$28.99

Addressing the Long-Term Effects of the COVID-19 Pandemic on Children and Families

The COVID-19 pandemic has had an unprecedented impact on the lives of children and their families, who have faced innumerable challenges such as illness and death; school closures; social isolation; financial hardship; food insecurity; deleterious mental health effects; and difficulties accessing health care. In almost every outcome related to social, emotional, behavioral, educational, mental, physical, and economic health and well-being, families identifying as Black, Latino, and Native American, and those with low incomes, have disproportionately borne the brunt of the negative effects of the pandemic. The effects of the COVID-19 pandemic on children and families will be felt for years to come. While these long-term effects are unknown, they are likely to have particularly significant implications for children and families from racially and ethnically minoritized communities and with low incomes.

Addressing the Long-Term Effects of the COVID-19 Pandemic on Children and Families identifies social, emotional, behavioral, educational, mental, physical, and economic effects of the COVID-19 pandemic and looks at strategies for addressing the challenges and obstacles that the pandemic introduced for children and families in marginalized communities. This book provides recommendations for programs, supports, and interventions to counteract the negative effects of the pandemic on child and family well-being and offers a path forward to recover from the harms of the pandemic, address inequities, and prepare for the future.

Committee on Addressing the Long-Term Impact of the COVID-19 Pandemic on Children and Families
Tumaini Rucker Coker, Jennifer Appleton Gootman, and Emily P. Backes, Editors | National Academies of Sciences, Engineering, and Medicine



June 2023
6 x 9, 414 pages
Paperback: 978-0-309-69337-0
\$50.00
Ebook Available: \$39.99

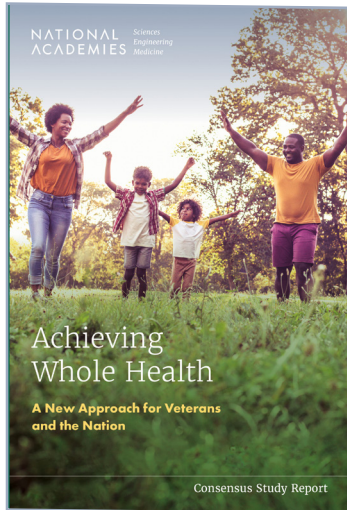
Reducing Racial Inequality in Crime and Justice Science, Practice, and Policy

The history of the U.S. criminal justice system is marked by racial inequality and sustained by present day policy. Large racial and ethnic disparities exist across the several stages of criminal legal processing, including in arrests, pre-trial detention, and sentencing and incarceration, among others, with Black, Latino, and Native Americans experiencing worse outcomes. The historical legacy of racial exclusion and structural inequalities form the social context for racial inequalities in crime and criminal justice. Racial inequality can drive disparities in crime, victimization, and system involvement.

Reducing Racial Inequality in Crime and Justice: Science, Practice, and Policy synthesizes the evidence on community-based solutions, noncriminal policy interventions, and criminal justice reforms, charting a path toward the reduction of racial inequalities by minimizing harm in ways that also improve community safety. Reversing the effects of structural racism and severing the close connections between racial inequality, criminal harms such as violence, and criminal justice involvement will involve fostering local innovation and evaluation, and coordinating local initiatives with state and federal leadership.

Committee on Reducing Racial Inequalities in the Criminal Justice System | Khalil Gibran Muhammad, Bruce Western, Yamrot Negussie, and Emily Backes, Editors | National Academies of Sciences, Engineering, and Medicine

“Research tells us that the relationship between racial inequality in criminal justice and racial inequality more broadly is a pernicious and persistent feedback loop. These perpetuating effects of inequality can lead to continual criminal justice involvement for individuals, severely impacting neighborhoods and communities.” - Khalil Gibran Muhammad, professor of history, race, and public policy at Harvard Kennedy School and co-chair of the committee that wrote the report.



June 2023

6 x 9, 406 pages

Paperback: 978-0-309-69927-3

\$27.00

Ebook Available: \$19.99

Achieving Whole Health A New Approach for Veterans and the Nation

Whole health is physical, behavioral, spiritual, and socioeconomic well-being as defined by individuals, families, and communities. Whole health care is an interprofessional, team-based approach anchored in trusted relationships to promote well-being, prevent disease, and restore health. It aligns with a person's life mission, aspiration, and purpose. It shifts the focus from a reactive disease-oriented medical care system to one that prioritizes disease prevention, health, and well-being. It changes the health care conversation from “What’s wrong with you?” to “What matters to you?”

Achieving Whole Health provide guidance on how to fill gaps and create processes to accelerate the transformation to whole health care for veterans, both inside and outside the VA system, and the rest of the U.S. population. This book presents findings and recommendations that provide a roadmap for improving health and well-being for veterans and the nation.

Committee on Transforming Health Care to Create Whole Health: Strategies to Assess, Scale, and Spread the Whole Person Approach to Health; Alex H. Krist, Jeannette South-Paul, and Marc Meisner, Editors | National Academies of Sciences, Engineering, and Medicine

“If the measure of an effective health care system is whether everyone has the opportunity to be as healthy as possible, then the U.S. is failing. The VA’s Whole Health System shows the promise of whole health care for veterans across the nation, and we believe it is possible for whole health approaches to be expanded to the rest of the U.S. health care system, with enormous potential benefits for all.”

- Alex Krist, Co-Chair of the Authoring Committee



June 2023

6 x 9, 170 pages

Paperback: 978-0-309-69551-0

\$24.00

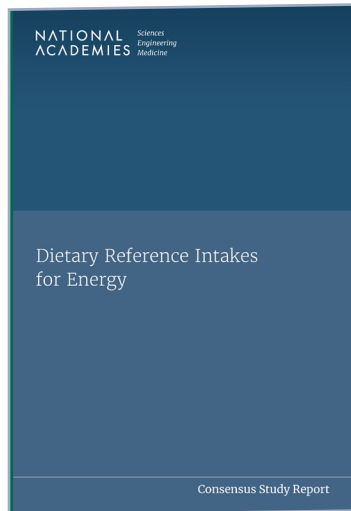
Ebook Available: \$19.99

Wastewater-based Disease Surveillance for Public Health Action

The COVID-19 pandemic spurred a rapid expansion of wastewater-based infectious disease surveillance systems to monitor and anticipate disease trends in communities. The Centers for Disease Control and Prevention (CDC) launched the National Wastewater Surveillance System in September 2020 to help coordinate and build upon those efforts. Produced at the request of CDC, this study reviews the usefulness of community-level wastewater surveillance during the pandemic and assesses its potential value for control and prevention of infectious diseases beyond COVID-19.

Wastewater-based Disease Surveillance for Public Health Action concludes that wastewater surveillance is and will continue to be a valuable component of infectious disease management. This book presents a vision for a national wastewater surveillance system that would track multiple pathogens simultaneously and pivot quickly to detect emerging pathogens, and it offers recommendations to ensure that the system is flexible, equitable, and economically sustainable for informing public health actions. *Wastewater-based Disease Surveillance for Public Health Action* also recommends approaches to address ethical and privacy concerns and develop a more representative wastewater surveillance system.

Committee on Community Wastewater-based Infectious Disease Surveillance | National Academies of Sciences, Engineering, and Medicine



Dietary Reference Intakes for Energy

The Dietary Reference Intakes (DRIs) are a set of reference values that encompass a safe range of intake and provide recommended nutrient intakes for the United States and Canada. The DRIs for energy are used widely to provide guidance for maintaining energy balance on both an individual and group level.

U.S. and Canadian governments asked the National Academies to convene an expert committee to examine available evidence and provide updated Estimated Energy Requirements (EERs) for their populations. This study presents EER equations that provide a baseline for dietary planners and assessors who are estimating energy needs and monitoring energy balance to enhance the general health of individuals and populations.

Committee on the Dietary Reference Intakes for Energy | National Academies of Sciences, Engineering, and Medicine

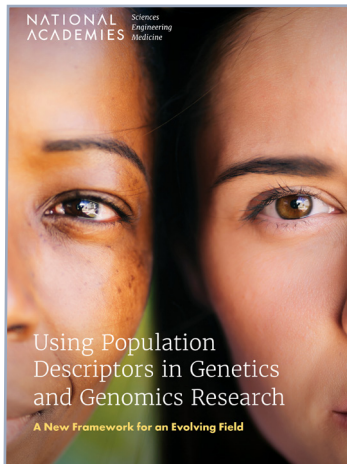
June 2023

6 x 9, 460 pages

Paperback: 978-0-309-69723-1

\$80.00

Ebook Available: \$68.99



July 2023

6 x 9, 238 pages

Paperback: 978-0-309-70065-8

\$25.00

Ebook Available: \$20.99

Using Population Descriptors in Genetics and Genomics Research A New Framework for an Evolving Field

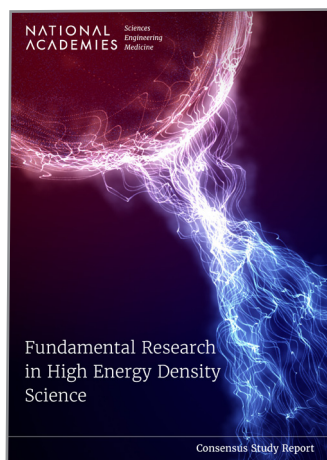
Genetic and genomic information has become far more accessible, and research using human genetic data has grown exponentially over the past decade. Genetics and genomics research is now being conducted by a wide range of investigators across disciplines, who often use population descriptors inconsistently and/or inappropriately to capture the complex patterns of continuous human genetic variation.

This book reviews and assesses existing methodologies, benefits, and challenges in using race, ethnicity, and other population descriptors in genomics research. With an emphasis on the use of appropriate and validated population descriptors in genomics research, *Using Population Descriptors in Genetics and Genomics Research* explores the current use of population descriptors in genomics research; examines best practices in the use of race, ethnicity, and ancestry as population descriptors; and identifies how best practices in the use of population descriptors could be widely adopted within the biomedical and scientific communities to strengthen genetics and genomics research.

Committee on the Use of Race, Ethnicity, and Ancestry as Population Descriptors in Genomics Research
National Academies of Sciences, Engineering, and Medicine

“Classifying people by race is a practice entangled with and rooted in racism, and the pernicious effects of applying this classification to genetics and genomics research have undeniably caused harm over the last century. The lack of consistency in the use of population descriptors also presents problems for the accuracy and applicability of genomics research. The new framework and processes our report recommends can help our field produce more trustworthy science.”

- Charmaine D. Royal, co-chair of the authoring committee



June 2023

7 x 10, 130 pages

Paperback: 978-0-309-69414-8

\$24.00

Ebook Available: \$19.99

Fundamental Research in High Energy Density Science

High energy density (HED) science has critical applications for society from fusion energy to sustaining the US nuclear deterrent, while also contributing to broader scientific questions such as understanding planets and their origins.

The next decade of HED science will be instrumental to growing our understanding and in the development of new technologies and processes. *Fundamental Research in High Energy Density Science* identifies key challenges and science questions for the field for the coming decade and proposes ways to address them.

Committee on the Assessment of High Energy Density Science | National Academies of Sciences, Engineering, and Medicine

“Notable advances have been made in high energy density science over the past few decades - including the recent achievement of fusion ignition through inertial confinement - putting the field on the threshold of major leaps in understanding nuclear fusion, astrophysical phenomena and the evolution of the solar system, and quantum states. But, if the U.S. scientific enterprise is to continue leading the way in fusion and in other areas of high energy density science, we will have to keep investing in facilities and technology that make these advances possible.” - Giulia Galli, co-chair of the study committee

