2022 Annual Report
We recently celebrated the 50th anniversary of the founding of the NAM, formerly the Institute of Medicine. Reflecting on the achievements of the past decades is an important part of charting the course toward the future. The work of the NAM over the last year is a testament to our commitment to tackling the challenges of today and preparing for those yet to come.

Throughout 2022, the NAM has responded to the pressing issues of the COVID-19 pandemic, firearm violence, reproductive health and well-being, and clinician burnout to name a few. In the face of uncertainty, the NAM has stepped forward without hesitation, offering science-based leadership and facilitating collaborative solutions.

As part of our effort to stem the tide of the health workforce burnout and depletion, we launched a National Plan for Health Workforce Well-Being (page 6), identifying priority areas to drive collective and coordinated action across the health sector. To date, 50 organizations have formally endorsed the National Plan and this year we announced a nationwide campaign to implement its priorities focused on supporting health workers and their patients.

The NAM also released publications focused on U.S. health system transformation and extending the human healthspan. Emerging Stronger After COVID-19: Priorities for Health System Transformation (page 9) outlined priorities for cross-sector impact and the Global Roadmap on Healthy Longevity (page 13) presented a vision for healthy longevity achievable by 2050.

Our focus on the climate crisis and its impact on health and equity remains steadfast (page 13). In addition to work on reducing the carbon footprint of the U.S. health sector and building a roadmap toward systems transformation, the NAM has launched the Climate Communities Network. This initiative will bring together community leaders from U.S. regions disproportionately impacted by climate change to work collaboratively on solutions and inform decision-making.

In response to two issues reaching new levels of crisis in 2022—firearm injuries and inequitable access to reproductive health care—the NAM launched two new groups that are now hard at work developing critical resources (pages 7 and 8).

Centering equity and lived experience is critical to the success of the NAM and is woven throughout our work. You will find more highlights throughout this report that underscore this commitment, including activities to communicate about the health impacts of structural racism, address the U.S. opioid epidemic, and more.

This work is possible only through the generosity, expertise, and care shown by the NAM’s donors, members, volunteers, and staff. Together, we are paving the road to a healthier future for all.

VICTOR J. DZAU
President, National Academy of Medicine

May 2023
Contents

2  2022-2023 Council

3  Organizational Chart

5  Program Highlights
   Responding to Pressing Issues
   Advising on U.S. & Global Health & Science Policy
   Tackling Grand Challenges & Advancing Bold Ideas

14  Featured Consensus Reports from the National Academies of Sciences, Engineering, and Medicine

19  Member Highlights
   NAM 50th Anniversary Gala
   Members Elected in 2022
   2022 Nobel Prize in Chemistry
   The Jane E. Henney Director of Membership and Governance
   In Memoriam

29  Awards
   NAM Member Awards
   Gustav O. Lienhard Award for Advancement of Health Care
   Rhoda and Bernard Sarnat International Prize in Mental Health
   David and Beatrix Hamburg Award for Advances in Biomedical Research and Clinical Medicine
   Cecil Awards

35  Fellowships & Emerging Leaders

43  Finances

44  2022 Honor Roll of Donors
National Academy of Medicine

2022-2023 Council

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Program Highlights

Responding to Pressing Issues

Advising on U.S. & Global Health & Science Policy

Tackling Grand Challenges & Advancing Bold Ideas
Responding to Pressing Issues

Clinician Well-Being

Throughout 2022, the NAM convened, published, and shaped the national health workforce well-being conversation, holding sessions focused on health care worker retention, documentation burden, health technology, and more. The NAM also released the Resource Compendium for Health Care Worker Well-Being in January 2022. The Compendium offers resources for health care leaders and workers to address burnout and improving clinician well-being.

In October 2022, the NAM launched the National Plan for Health Workforce Well-Being to drive collective action to strengthen health workforce well-being and restore the health of the nation. More than 1,700 public comments were received on the draft plan in May 2022; more than 1,000 virtual participants attended the October launch; and 50 organizations endorsed the final publication.

The NAM is leading a new Change Maker Campaign to implement the National Plan’s priorities and plans to establish a national awareness day to raise visibility about health workforce well-being, year after year.

The U.S. Opioid Epidemic

In April 2022, the NAM released a patient-centered Chronic Pain Journey Map, which visually illustrates the experiences of people living with chronic, non-cancer pain as they navigate treatment and care systems. The interactive journey map has been cited as informing the Centers for Medicare & Medicaid Services chronic pain management payment codes for the 2023 Physician Fee Schedule to improve comprehensive care.

To address how education and training can more effectively respond to this crisis, the NAM published Educating Together, Improving Together: Harmonizing Interprofessional Approaches to Address the Opioid Epidemic, a framework that identifies competencies needed across professions to address practice gaps and strengthen care delivery.

Future work of the NAM Action Collaborative on Countering the U.S. Opioid Epidemic will focus on advancing health equity, catalyzing data-driven implementation, and developing a public health framework for substance use disorders.
Structural Racism & Health Inequity

The NAM’s Culture of Health Program is a collaborative effort to identify strategies to create and sustain conditions that support equitable good health for everyone in the United States. In January 2022, the NAM held a meeting to examine key considerations for measuring, evaluating, and communicating the impact of efforts to accelerate health equity. This event highlighted existing approaches to measuring and evaluating health equity strategies in various sectors, and elevated promising strategies to measure impact of efforts to sustain and advance health equity outcomes.

Upcoming program activities will advance action on addressing inequitable health outcomes among groups that have been marginalized, with particular focus on Black, Indigenous, Pacific Islander, Latino/a/x, and Asian American populations in the United States, identifying systems-level changes needed to remove barriers to achieving optimal health for all.

Firearm Violence & Injury in the United States

The toll of firearm-related death and injury that wreaks havoc across U.S. communities also does so to our health care system. The complex national challenge of firearm violence and injury is wide and deep and requires significant research, investment, and multisectoral participation to move the needle. The NAM assembled a task force of experts to determine how to advance critical research and interventions to reverse the deadly trends around firearm violence and injury in America. As part of its work, the task force is developing a paper outlining an evidence-based, multisectoral approach—characteristic of efforts used to address public health challenges—that can prevent firearm-related injuries and death.
Reproductive Health, Equity & Society

An NAM advisory group was formed in September 2022 to shape the NAM/NASEM response to the broad-reaching effects of the *Dobbs v. Jackson Women’s Health Organization* decision. The group is developing two resources: a landscape paper, charting the likely impacts of the decision across facets of health, health care, and society, and a compilation of relevant external research and guidance. In order to create a longer-term infrastructure for this group, it has evolved into the NASEM Standing Committee on Reproductive Health, Equity, and Society. Fundraising is underway to develop new activities under the standing committee.

Credible Online Health Information

In 2022, the NAM collaborated with the Council for Medical Specialty Societies and the World Health Organization to build on guidance from the 2021 NAM discussion paper “Identifying Credible Sources of Health Information in Social Media: Principles & Attributes” (Kington, et al.). The second paper, published in May 2023, considers the credibility of a broader set of information sources, including corporations and individuals. Further program planning in the area of credible health information is underway.
Advising on U.S. & Global Health & Science Policy

Emerging Science, Technology, & Innovation in Health and Medicine

In 2022, the NAM launched a consensus study informed by the analyses undertaken by its standing Committee on Emerging Science, Technology, and Innovation. The study is tasked with developing a cross-sectoral governance framework for considering potential benefits and harms that emerging science, technology, and innovation in health and medicine can bring to society and with recommending approaches to align development and governance of emerging technologies with core ethical principles, with a focus on equity. The 19-member study committee is co-chaired by Keith Wailoo, PhD (NAM), Princeton University and Keith Yamamoto, PhD (NAS/NAM), University of California, San Francisco. The committee’s report is due for publication in summer 2023.

U.S. Health System Transformation

The efforts of the NAM Leadership Consortium: Collaboration for a Learning Health System have influenced strategic thinking, facilitated action, and advanced impact toward a learning health system where best practices and new knowledge are being integrated to improve the health and well-being of all.

Especially important, in November 2022, the NAM announced the Emerging Fairer & Stronger from COVID-19 National Commission on Investment Imperatives for a Healthy Nation. As the primary national level entity working to improve alignment in activities across the health system, it has set the stage for transformational action in the wake of the COVID-19 pandemic. This new initiative aims to advance transformative improvements in the U.S. health system, motivated by and based on lessons learned from deadly shortfalls experienced during the pandemic. The Commission will examine cross-sectoral challenges of health system fragmentation, misaligned incentives, and structural inequities, describing their characteristics and identifying strategic actions and policies to remedy them.

Throughout the year, the NAM Leadership Consortium released 11 publications that support the advancement of a learning health system, including Emerging Stronger from COVID-19: Priorities for Health System Transformation—a special publication that distills insight from leaders across all major health system sectors to identify opportunities for meaningful health system transformation—and “Assessing Meaningful Community Engagement: A Conceptual Model to Advance Health Equity Through Transformed Systems for Health,” a commentary that describes factors needed to assess the quality and impact of meaningful community engagement.
Emerging Stronger from COVID-19: Priorities for Health System Transformation

During the COVID-19 pandemic, there have been heroic responses to the disease, death, inequity, and economic strife unleashed by the virus, but the United States also experienced the consequences of poor pandemic preparedness and long-standing structural failures in our health system. Leveraging lessons learned, this report suggested actions for a health system that centers patients, families, and communities; cares for clinicians; supports care systems, public health, and biomedical research to perform at the best of their abilities; applies innovations from digital health and quality, safety, and standards organizations; and encourages health care payers and health product manufacturers and innovators to produce products that benefit all.

Sharing Health Data: The Why, the Will, and the Way Forward

Sharing health data and information across stakeholder groups is the bedrock of a learning health system. During the pandemic, there was a surge in collaboration among data holders in public health, health care, and technology firms, suggesting that an evolution in health data sharing is visible and tangible. This report highlighted some of these novel data sharing collaborations and provided practical context and implementation guidance; identified and described exemplar groups to dispel the myth that sharing health data more broadly is impossible; illuminated the innovative approaches being taken to make progress in the current environment; and shared lessons and insights from those on the front lines.
Catalyzing Innovative Health System Transformation: An Opportunity Agenda for the Center for Medicare & Medicaid Innovation

Since its founding, the Center for Medicare & Medicaid Innovation (CMMI) has tested more than 50 alternative payment models, yielding invaluable insights on the implementation of models to achieve better care, better health, and lower costs. But many of these lessons are unapplied. This report suggested priority actions for CMMI centered on signaling, mapping, measuring, modeling, partnering, and demonstrating. These priority actions are intended to assist in aligning, supporting, and informing the implementation of CMMI's Strategic Refresh.

“Assessing Meaningful Community Engagement: A Conceptual Model to Advance Health Equity Through Transformed Systems for Health”

Meaningful community engagement requires working collaboratively with and through those who share similar situations, concerns, or challenges. This commentary described a dynamic conceptual model highlighting factors for assessing the quality and impact of meaningful community engagement across various sectors and partnerships, while simultaneously emphasizing health equity and health system transformation.
“Multi-Payer Alignment on Value-Based Care” highlighted priority areas and key themes to help address critical issues and challenges around multi-payer alignment.

“Collecting Data to Ensure Equity in Payment” Policy highlighted priority areas and key themes to help address critical issues and challenges around collecting data to ensure equity.

“Health Product Manufacturers and Innovators COVID-19 Impact Assessment: Lessons Learned and Compelling Needs” suggested policy priorities to increase the effectiveness, efficiency, and equity of the HPMI sector and across the U.S. health care system.

Digital Health COVID-19 Impact Assessment: Lessons Learned and Compelling Needs explored digital health lessons learned during the response to COVID-19 and discussed key priorities to inform a vision for a better future.

“A Global Equity Model (GEM) for the Advancement of Community Health and Health Equity” proposed an innovative payment model that realigns incentives across the necessary stakeholders, programs, and payments in metropolitan areas to advance community health and achieve health equity.

“The Promise of Digital Health: Then, Now, and the Future” provided a comprehensive review of digital health tools and identified critical priorities for cooperation and collaboration among policy makers and industry leaders.

“Meeting the Moment: Addressing Barriers and Facilitating Clinical Adoption of Artificial Intelligence in Medical Diagnosis” examined key factors related to the successful adoption of AI-DDS tools and discussed related issues of bias and equity.

“Health Technology for All: An Equity-Based Paradigm Shift Opportunity” called for health sector stakeholders—including academic institutions, funding organizations, health system leaders, technology companies, and policy leaders—to consider their role in a future paradigm where equity and progress are inextricably linked.
Tackling Grand Challenges & Advancing Bold Ideas

Healthy Longevity

2022 was a milestone year for the NAM’s Healthy Longevity Global Grand Challenge. In June, the NAM released the *Global Roadmap for Healthy Longevity* consensus report, which describes a vision of healthy longevity that could be achieved by 2050. The NAM held three summits—in the United States, Singapore, and Saudi Arabia—to discuss how the report recommendations can be put into action.

In September, the NAM and its collaborators in the Healthy Longevity Global Competition announced the extension of the international Catalyst Awards through 2025, securing commitments of an additional $15M. The competition seeks bold, new ideas with the potential for big impact in disease prevention, mobility, functionality, social connectedness, the biology of aging, and more. In 2022, more than 1,100 innovators entered the competition and 130 received a $50,000 Catalyst Award.

Climate Change, Human Health, & Equity

Climate change is one of our greatest public health and equity challenges, requiring action across every sector of society. The health sector has a duty to raise the alarm on the health impacts of climate change and to address the sector’s own contributions to the climate crisis. The NAM’s Grand Challenge on Climate Change, Human Health, and Equity—launched in 2020—is focused on decarbonization of the U.S. health sector, elevating community expertise to address climate-related health inequities, and developing a roadmap for global systems transformation.

The Action Collaborative on Decarbonizing the U.S. Health Sector established four working groups and has expanded to include network organizations—more than 110 organizations have committed to mitigating climate change and protecting human health, well-being, and equity. In March 2022, the NAM hosted a public meeting on health sector decarbonization in the United States and globally, drawing more than 400 participants.

Centering community priorities is key to reducing climate-related health inequities and, in December 2022, the NAM held a listening session to gather critical input for building the Climate Communities Network (CCN), a community-driven initiative to create solutions to climate-related health inequities at the local level. The CCN will create a platform for climate-impacted communities to share challenges and solutions, and elevate community wisdom to inform climate-related policy, investments, and research decision-making. Applications for CCN Members opened in May 2023.

Looking forward, and on a global scale, the NAM is working to develop a comprehensive roadmap report that offers a vision, strategy, and recommendations for systems transformation toward a global economy that promotes health, well-being, and equity. The roadmap will provide actionable recommendations for public and private sector leaders and entities to facilitate this transformation. Work on the roadmap will begin in late 2023.
Featured Consensus Reports
from the National Academies of Sciences, Engineering, and Medicine
The National Imperative to Improve Nursing Home Quality: Honoring Our Commitment to Residents, Families, and Staff

Nursing homes play a unique dual role in the long-term care continuum, serving as a place where people receive needed health care and a place that they call home. Ineffective responses to the complex challenges of nursing home care have resulted in a system that often fails to ensure the well-being and safety of nursing home residents. This report identified seven broad goals and supporting recommendations which provide the overarching framework for a comprehensive approach to improving the quality of care in nursing homes.

Realizing the Promise of Equity in the Organ Transplantation System

Each year, the individuals and organizations in the U.S. organ donation, procurement, allocation, and distribution system work together to provide transplants to many thousands of people, but thousands more die before getting a transplant due to the ongoing shortage of deceased donor organs and inequitable access to transplant waiting lists. This report provided expert recommendations to improve fairness, equity, transparency, and cost-effectiveness in the donor organ system.

Reassessment of the Department of Veterans Affairs Airborne Hazards and Open Burn Pit Registry

assessed the ability of the registry to “ascertain and monitor” the health effects of exposure to airborne hazards, including oil-well fire smoke, emissions from open burn pits, dust and sand, diesel exhaust, and poor-quality ambient air.

Review of Fate, Exposure, and Effects of Sunscreens in Aquatic Environments and Implications for Sunscreen Usage and Human Health

called on the U.S. Environmental Protection Agency to conduct an ecological risk assessment of UV filters to characterize the possible risks to aquatic ecosystems and the species that live in them.

Guidance on PFAS Exposure, Testing, and Clinical Follow-Up

recommended that the Centers for Disease Control and Prevention update its clinical guidance to advise clinicians to offer PFAS blood testing to patients likely to have a history of elevated exposure, such as those with occupational exposures or who live in areas known to be contaminated.

Selected Heritable Disorders of Connective Tissue and Disability

provided information regarding the diagnosis, treatment, and prognosis of selected heritable disorders of connective tissue and the effect of the disorders and their treatment on functioning.
Improving the CDC Quarantine Station Network’s Response to Emerging Threats identified how lessons learned during COVID-19 and other public health emergencies can be leveraged to strengthen pandemic response.

Selected Immune Disorders and Disability provided an overview of the current status of the diagnosis, treatment, and prognosis of selected immune system disorders in the U.S. population, common treatments, and other considerations.

Building Data Capacity for Patient-Centered Outcomes Research: Priorities for the Next Decade offered input on strengthening the overall framework for building the data infrastructure for patient-centered outcomes research over the coming years.

Building Resilience into the Nation’s Medical Product Supply Chains examined the root causes of medical product shortages and identified ways to enhance their resilience, including during public health emergencies.

Frameworks for Protecting Workers and the Public from Inhalation Hazards made recommendations for a framework of responsibilities and authorities that would provide an authoritative source of information and effective oversight for the development, approval, and use of respiratory protection.

Enhancing NIH Research on Autoimmune Disease called for the creation of systems to collect data to study disease across the life course and highlighted research needs that crosscut many autoimmune diseases.

Traumatic Brain Injury: A Roadmap for Accelerating Progress called not merely for improvement, but for a transformation of attitudes, understanding, investments, and care systems for TBI.

Premium Cigars: Patterns of Use, Marketing, and Health Effects assessed the state of evidence on premium cigar characteristics, current patterns of use, marketing and perceptions of the product, and short- and long-term health effects, and provided priority research recommendations.
Long COVID: Examining Long-Term Health Effects of COVID-19 and Implications for the Social Security Administration: Proceedings of a Workshop

"Long COVID" refers to the wide range of long-lasting symptoms experienced by some patients after a SARS-CoV-2 infection. Long COVID symptoms can affect a person's ability to work and otherwise function in daily life, so people with the condition may need to utilize programs such as Social Security Disability Insurance (SSDI) and the Supplemental Security Income Program (SSI). The National Academies of Sciences, Engineering, and Medicine hosted a public workshop to discuss research into the long-term health effects of COVID-19, their impacts on individuals and populations, and how the SSDI and SSI programs can support individuals who suffer disability as a result of Long COVID. This publication summarizes the presentation and discussion of the workshop.


Rapid Expert Consultation on Critical Federal Capabilities Needed to Evaluate Real-World Safety, Effectiveness, and Equitable Distribution and Use of Medical Countermeasures During a Public Health Emergency proposes modifications to a draft list of critical federal capabilities needed to evaluate real-world safety, effectiveness, equitable distribution, access, and use of medical countermeasures during a public health emergency.

Supporting Individual Risk Assessment during COVID-19 identifies actionable guidance for state, local, and tribal decision makers seeking to help members of the public make their own and others' risk assessments related to COVID-19.

Evaluating COVID-19-Related Surveillance Measures for Decision-Making highlights new and updated COVID-19 data measures and surveillance strategies that decision makers can use to inform policy decisions.

Increasing Uptake of COVID-19 Vaccination Through Requirement and Incentive Programs identifies actionable guidance for state and local decision makers engaged in designing COVID-19 vaccine requirement and incentive programs to increase uptake of COVID-19 vaccines.
Member Highlights

NAM 50th Anniversary Gala

Members Elected in 2022

2022 Nobel Prize in Chemistry

The Jane E. Henney Director of Membership and Governance

In Memoriam
A major highlight of 2022 was the belated in-person celebration of the 50th anniversary of the founding of the NAM, formerly the Institute of Medicine (IOM). Nearly 700 members, staff, colleagues, supporters, and friends gathered at the National Building Museum in Washington, DC, for a remarkable gala that included speeches by President Biden’s Science Advisor and White House Office of Science and Technology Policy Director Arati Prabhakar, European Commission President Ursula von der Leyen, and WHO Director-General Tedros Adhanom Ghebreyesus. This momentous event was an opportunity to reflect on the IOM/NAM’s impact across its six decades and the NAM members who made it possible. To mark the anniversary, the NAM released two commemorative books, Transforming Human Health: Celebrating 50 Years of Discovery and Progress and A History of the National Academy of Medicine: 50 Years of Transformational Leadership.
Members Elected in 2022

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DREW WEISSMAN, MD, PHD
Perelman School of Medicine, University of Pennsylvania

RUTH E. ZAMBRANA, PHD
University of Maryland, College Park

*Deceased
International Members Elected in 2022

PEDRO L. ALONSO, MD, PHD
University of Barcelona

PETER JOHN CAMPBELL, MBCHB, PHD
Wellcome Sanger Institute

DIARMID CAMPBELL-LENDRUM, MA, DPHIL
World Health Organization

BART DE STROOPER, MD, PHD
UK Dementia Research Institute, KU Leuven, Vlaams Instituut voor Biotechnologie, University College London

JAN DEPREST, MD, PHD, FRCOG
University Hospitals Leuven, University College London

CONNIE J. EAVES, PHD
BC Cancer Research Institute, University of British Columbia

GAGANDEEP KANG, MD, PHD, FRCPATH, FAAM, FASC, FNASC, FNA, FFPH, FRS
Christian Medical College

FAREES (FARY) KHAN, AM, MD, MBBS, FAFRM (RACP)
The Royal Melbourne Hospital

ROBERT JAMES MASH, MBCHB, DCH, DCOG, FRCGP, FCFP (SA), PHD
Stellenbosch University

MARLEEN TEMMERMAN, MD, MPH, OB/GYN, PHD
Aga Khan University and Ghent University
The 2022 Nobel Prize in Chemistry was awarded jointly to Carolyn R. Bertozzi, Morten Meldal, and K. Barry Sharpless for their development of click chemistry and bio-orthogonal chemistry. Bertozzi is a dual member of the NAM and the National Academy of Sciences (NAS).

The three laureates have brought chemistry into the era of functionalism with the development of click chemistry, which allows molecular building blocks to be snapped together, and bio-orthogonal chemistry. Bertozzi modified click reactions for use in living cells and these bio-orthogonal reactions have been used in developing cancer immunotherapies and several other applications.

In 2016, Bertozzi received the NAS Award in Chemical Sciences for founding bio-orthogonal chemistry.

Carolyn R. Bertozzi
In 2022, members Jane E. Henney and Robert “Bob” Graham endowed a position in the NAM’s Office of Membership and Governance, the Jane E. Henney Director of Membership and Governance.

“We have greatly appreciated the opportunities for professional involvement that our memberships have provided. The opportunity now to support the NAM’s mission in future years is one we view as both timely, and welcome,” shared Henney and Graham.

“The endowment of positions, programs, and other ongoing activities is vital to ensuring the long-term vitality of the Academy. I’m honored that Jane and Bob have made this generous gift in recognition of Jane’s service to the NAM, and I’m grateful for their important contributions and service throughout the years,” said NAM president, Victor J. Dzau.

Henney has served in a series of senior health-policy leadership positions in the public sector, including serving as the first woman Food and Drug Administration commissioner. She was inducted into the NAM in 2000. In 2014, she was appointed home secretary, and in 2018 became the first elected home secretary as the Institute of Medicine transitioned to the NAM.

Graham has held leadership positions in public health and family medicine organizations. He was inducted into the NAM in 1990. Graham is a long-time faculty member of the Robert Wood Johnson Health Policy Fellowship Program and serves as chair of the NAM Fellowships Advisory Committee.
In Memoriam

The NAM honors members who passed away between January 1, 2022, and May 1, 2023.

BERNARD W. AGRANOFF
C. DAVID ALLIS
ARTHUR K. ASBURY
H. DAVID BANTA
STANLEY BAUM
R. DANIEL BEAUCHAMP
PAUL BERG
C. THOMAS CASKEY
JOSEPH M. DAVIE
DANIEL B. DRACHMAN
PAUL M. ELLWOOD, JR.
PAUL E. FARMER
HENRY W. FOSTER, JR.
KRISTINE M. GEBBIE
IRVING H. GOLDBERG
EMIL C. GOTSCHLICH
MICHAEL R. GREEN
JOHN S. GREENSPAN
FERNANDO A. GUERRA
MARGARET C. HEAGARTY
JEAN E. JOHNSON
MARIE-LOUISE T. JOHNSON
HAIG H. KAZAZIAN, JR.
JOYCE C. LASHOF
MARION MANN
GEORGE M. MARTIN
HUGH O. MCDEVITT
GUY M. MCKHANN
ROBERT F. MURRAY, JR.
JOHN EDWARD PORTER
LINDA A. RANDOLPH
LEON E. ROSENBERG
ABRAHAM M. RUDOLPH
RALPH L. SACCO
KRISHNA V. SHENOY
WILLIAM SILEN
JAMES P. SMITH
JOHN Q. TROJANOWSKI
EMIL R. UNANUE
CHRISTOPHER T. WALSH
Awards

Gustav O. Lienhard Award for Advancement of Health Care

Rhoda and Bernard Sarnat International Prize in Mental Health

David and Beatrix Hamburg Award for Advances in Biomedical Research and Clinical Medicine

NAM Member Awards

Cecil Awards
**Gustav O. Lienhard Award for Advancement of Health Care**

*Mary D. Naylor* received the 2022 Gustav O. Lienhard Award for Advancement of Health Care for improving the lives of millions of older adults living with complex health and social needs through her role as the architect of the Transitional Care Model and pioneer of the field of transitional care. The award, which recognizes Naylor’s achievements with a medal and $40,000, was presented at the NAM’s annual meeting in October. Naylor is the Marian S. Ware Professor in Gerontology and director of the New Courtland Center for Transitions and Health at University of Pennsylvania School of Nursing.

**Rhoda and Bernard Sarnat International Prize in Mental Health**

*Daniel H. Geschwind* is the recipient of the 2022 Rhoda and Bernard Sarnat International Prize in Mental Health for his groundbreaking scientific work and leadership in the area of autism genetics. The award, which recognizes Geschwind's achievements with a medal and $20,000, was presented at the NAM's annual meeting in October. Geschwind is Gordon and Virginia McDonald Distinguished Professor in Neurology, Psychiatry, and Human Genetics, director of the Center for Autism Research, and senior associate dean and associate vice chancellor for precision health at the University of California, Los Angeles.
**Inaugural David and Beatrix Hamburg Award for Advances in Biomedical Research and Clinical Medicine**

**Jeffrey I. Gordon** is the recipient of the 2022 David and Beatrix Hamburg Award for Advances in Biomedical Research and Clinical Medicine for discoveries that have transformed understanding of how human physiology is shaped by microbial communities. The inaugural award, which recognizes Gordon’s achievements with a medal and $50,000, was presented at the NAM’s annual meeting in October. Gordon is the Dr. Robert J. Glaser Distinguished University Professor and director of the Edison Family Center for Genome Sciences and Systems Biology at Washington University School of Medicine in St. Louis.
In 2022, the NAM honored three members for their outstanding service — Richard J. Jackson, professor emeritus at University of California, Los Angeles, and director emeritus of the Centers for Disease Control and Prevention’s National Center for Environmental Health; Dean T. Jamison, professor emeritus at University of California, San Francisco; and Michael M.E. Johns, executive vice president for health affairs emeritus and professor at Emory University.

Jackson received the David Rall Medal, which recognizes a member who has demonstrated distinguished leadership as chair of a study committee or other activity. An NAM member since 2011, Jackson is a national leader in environmental health. He has held leadership roles in state and federal public health throughout his career, as well as prominent academic roles. He chaired the National Academies committee that produced the 2011 report Improving Health in the United States: The Role of Health Impact Assessment. Jackson demonstrated leadership in bringing climate change as a health concern to the NAM agenda. He was instrumental in forming Interest Group 19 and co-chaired the group during its first year, which was marked by NAM’s launch of the Grand Challenge on Climate Change, Human Health, and Equity.

Jamison received the Adam Yarmolinsky Medal, which recognizes distinguished service by a member from a discipline outside the health and medical sciences. An NAM member since 1994, Jamison previously worked at the World Bank as a research economist and served as lead author for World Development Report 1993: Investing in Health, which transformed global financing for health. He served on the Committee on Population and chaired the Board on Global Health. Jamison was also a liaison to the Committee on the Economics of Antimalarial Drugs. He led efforts to create a new Economic Burden of Disease framework, leading to a standardized way to create an overall metric for disease burden that incorporates an economic dimension, including the large contribution of health.
Johns received the **Walsh McDermott Medal**, which recognizes a member for distinguished service to the National Academies of Sciences, Engineering, and Medicine over an extended period. An NAM member since 1993, Johns is a nationally recognized leader in academic medicine and American health policy. He served as vice chair and then chair for Section 06 (Surgery, Anesthesia, Radiology); on the NAM Council, including a year as vice chair; and on the Governing Board of the National Research Council. Johns chaired the Committee on Optimizing Graduate Medical Trainee (Resident) Hours and Work Schedules to Improve Patient Safety. He was a member of the Roundtable on Value and Science-Driven Health Care, and he served as chair of the Committee on a National Strategy for Cancer Control in the United States. Johns was recently tapped to serve on the NAM Program Planning Committee for the 50th Anniversary Regional Symposia–South.
Cecil Awards

The Cecil Awards recognize staff from throughout the National Academies who have demonstrated superb skill and commitment in furthering the mission of the NAM: to improve health for all by advancing science, accelerating health equity, and providing independent, authoritative, and trusted advice nationally and globally.

The following individuals were chosen for the 2022 Cecil Awards by a committee composed of NAM members and staff representatives from across the National Academies.

Sandra H. Matthews Cecil Award for Administrative Excellence

Jamal B. Samuel, Senior Membership Associate, NAM

Sandra H. Matthews supported three presidents throughout her tenure at the Institute of Medicine, in addition to contributing her guidance and wisdom to many other projects, including the National Academies’ African American Histories Program. She is the only staff member to have an award issued in her honor.

Cecil Award for Individual Excellence

Sarah H. Beachy, Senior Program Officer, Health and Medicine Division

Cecil Award for Excellence of a Group/Team

Samira Abbas (HMD), Tracy Lustig (HMD), Marc Meisnere (HMD), Sharyl J. Nass (DEPS), Sarah K. Robinson (HMD), Cyndi L. Trang (HMD), and Micah Winograd (OCFO), the Health and Medicine Division, Division on Engineering and Physical Sciences, and Office of the Chief Financial Officer study team for Implementing High-Quality Primary Care (pictured above)
The NAM administers the following fellowships and leadership programs to build future leadership capacity, promote innovation, and accelerate advances in health, medicine, and biomedical sciences.

**Robert Wood Johnson Foundation (RWJF) Health Policy Fellows** — offers the nation’s most comprehensive fellowship experience at the nexus of health, science, and policy in Washington, DC

**Distinguished Nurse Scholar-in-Residence** — provides a one-year immersion experience at the NAM for outstanding nurse leaders

**NAM Fellowships for Health Science Scholars** — offers nine distinct programs across diverse disciplinary areas of focus for high-potential early-career professionals

**International Fellowships** — provides an opportunity for emerging leaders from abroad to become directly involved with the work of the NAM and the National Academies and to contextualize our work to a global setting

**NAM Scholars in Diagnostic Excellence** — supports the implementation and dissemination of programs that advance diagnostic excellence and equity at the national level

**Emerging Leaders in Health and Medicine** — supports exceptional individuals as they develop innovative, creative interdisciplinary approaches to challenges in health and medicine
2022-2023 RWJF Health Policy Fellows

ELIZABETH COX, MD, PHD
Professor
Pediatrics and Population Health Sciences
School of Medicine and Public Health
University of Wisconsin-Madison
Madison, WI
Placement: Senate Committee on Health, Education, Labor, and Pensions (Majority)

LAURA FINDEISS, MD
Chief of Service, Grady Health System
Radiology and Imaging Sciences
Emory University School of Medicine
Atlanta, GA
Placement: House Committee on Energy and Commerce (Minority)

YING-YING GOH, MD, MSHS
Director and Health Officer
City of Pasadena Public Health Department
Pasadena, CA
Placement: Office of the Vice President of the United States

LINDSEY HARRIS, DNP, RN, FNP-BC
Nurse Practitioner
University of Alabama at Birmingham Medicine
Birmingham, AL
Placement: Office of Representative Lauren Underwood

KUMHEE RO, DNP, FNP-BC, FAANP
Assistant Professor
Director of Advanced Practice Nursing Immersion Program
Seattle University College of Nursing
Seattle, WA
Placement: Office of Senator Tim Kaine

BERLINA WALLACE-BERUBE, MED, MACP, LPC, NCC
Director, Primary Care Office
U.S. Virgin Islands Department of Health
Christiansted, St. Croix, U.S. Virgin Islands
Placement: Office of Senator Ed Markey

2022–2023 Distinguished Nurse Scholar-in-Residence

CHERYL KILLION, PHD, MA, MS, RN, FAAN
Associate Professor
Frances Payne Bolton School of Nursing
Case Western Reserve University
Cleveland, OH
Launch of a New NAM Fellowship for Health Science Scholars

The NAM is proud to announce a new NAM Fellowship launching in 2024, the Foundation for Anesthesia Education and Research (FAER) Fellowship, with support from the FAER.

This fellowship offers a unique learning opportunity for outstanding early career anesthesiology scholars to get directly involved in the work of the NAM and the National Academies. Fellows gain a hands-on experience developing sound, evidence-based strategies and policies; learn to see health policy issues from various perspectives considering a wide range of disciplines and viewpoints; expand professional networks of experts and leaders in health and medicine; and accelerate their own career development in becoming future leaders in the field.

This fellowship will be awarded for a two-year period. Candidates will be drawn from the field of anesthesiology and must have completed their post-graduate work 2 to 10 years prior to the award and have a demonstrated interest in and focus on research, policy, and scholarship in the specialty.
NAM Fellowships for Health Science Scholars

**Norman F. Gant/American Board of Obstetrics and Gynecology (ABOG) Fellowship**

ALEXANDER MELAMED, MD, MPH (2021-2023)
Gynecologic Oncologist
Massachusetts General Hospital
Assistant Professor
Harvard Medical School
Boston, MA

**James C. Puffer, M.D./American Board of Family Medicine (ABFM) Fellowship**

STEVEN LIN, MD (2021–2023)
Clinical Associate Professor
Executive Director, Stanford Healthcare AI Applied Research Team (HEA3RT)
Vice Chief of Technology Innovation, Division of Primary Care and Population Health
Stanford University School of Medicine
Stanford, CA

ALICIA COHEN, MD, MSC, FAAFP (2022–2024)
Research Investigator
Center of Innovation in Long Term Services and Supports
VA Providence Healthcare System
Assistant Professor of Family Medicine, Alpert Medical School
Assistant Professor of Health Services, Policy, and Practice
School of Public Health
Brown University
Providence, RI

RUCHI M. FITZGERALD, MD, FAAFP (2022–2024)
Assistant Professor, Department of Family and Preventive Medicine
Assistant Professor, Department of Psychiatry and Behavioral Sciences
Associate Program Director, Addiction Medicine Fellowship
Rush University
Chicago, IL
Service Chief, Inpatient Addiction Medicine
PCC Community Wellness Center
Oak Park, IL

**Gilbert S. Omenn Fellowship**

ANDREW GONZALEZ, MD, JD, MPH (2021-2023)
Assistant Professor of Surgery
Indiana University School of Medicine
Associate Director for Data Science in Health Services Research
Regenstrief Institute
Indianapolis, IN

**American Board of Emergency Medicine (ABEM) Fellowship**

TRACY MADSEN, MD, PHD, FACEP, FAHA (2021-2023)
Associate Professor, Department of Emergency Medicine
Associate Director, Division of Sex and Gender
Alpert Medical School of Brown University
Brown University School of Public Health
Co-Director, Rhode Island Hospital Comprehensive Stroke Center
Director, Emergency Department Acute Stroke Services, Rhode Island Hospital
Providence, RI

CAITLIN RUBLEE, MD, MPH (2022–2024)
Assistant Professor
Department of Emergency Medicine and Department of Environmental and Occupational Health
Assistant Fellowship Director, Climate and Health Science Policy Fellowship
Director of Graduate Medical Education, Climate and Health Program
University of Colorado School of Medicine
Colorado School of Public Health
Aurora, CO

**Greenwall Fellowship in Bioethics**

KAVITA SHAH ARORA, MD, MBE, MS (2021-2023)
Associate Professor
Division Director for General Obstetrics and Gynecology
University of North Carolina, Chapel Hill
Chapel Hill, NC
NAM Fellowship in Pharmacy

INMACULADA HERNANDEZ, PHARMD, PHD (2022-2024)
Associate Professor, Division of Clinical Pharmacy
Skaggs School of Pharmacy and Pharmaceutical Sciences
University of California, San Diego
La Jolla, CA

NAM Fellowship in Osteopathic Medicine

STERLING HARING, DO, MPH (2022-2024)
Pain Medicine Physician
Tift Regional Medical Center
Tifton, GA

American Academy of Nursing (AAN) Fellowship

PAULE V. JOSEPH, PHD, MS, FNP-BC, CTN-B, FAAN (2022-2024)
Lasker Clinical Research Scholar
Acting Chief, Section of Sensory Science and Metabolism Unit
Division of Intramural Clinical and Biological Research
National Institute on Alcohol Abuse and Alcoholism, Biobehavioral Research Branch
National Institute of Nursing Research, National Institutes of Health
Bethesda, MD

NAM Fellowship to Advance State Health Policy

BEN WESTON, MD, MPH, FAEMS (2022-2024)
Associate Professor
Department of Emergency Medicine
Medical College of Wisconsin
Chief Health Policy Advisor, Milwaukee County
Director of Medical Services
Milwaukee County Office of Emergency Management
Milwaukee, WI

International Fellowships

NAM International Health Policy Fellowship

VINCENT CHUNG, PHD, MSC (2021-2023)
Associate Professor, Jockey Club School of Public Health and Primary Care
Head, Development Division, School of Chinese Medicine
Faculty of Medicine
The Chinese University of Hong Kong
Hong Kong Special Administrative Region, China

NAM-HKU Fellowship in Global Health Leadership

HOLLY HOU, PHD, MSC (2021-2022)
Former Health Field Officer
East Asia Regional Delegation
International Committee of the Red Cross
Beijing, China
2022-2023 NAM Scholars in Diagnostic Excellence

This listing includes the titles of project proposals submitted by Scholars as part of their application.

REUBEN ARASARATNAM, MD, MPH
Assistant Professor of Medicine
UT Southwestern Medical Center
Infectious Diseases Staff Physician and Assistant to the Medical Services Chief for Education
VA North Texas Health Care System
Dallas, TX
*“Advancing the Equity of Penicillin Allergy Diagnosis at a Veterans Affairs Facility”*

ALAINA J. JAMES, MD, PHD
Director, Skin Health Equity, and Assistant Professor
Department of Dermatology
University of Pittsburgh School of Medicine
Medical Dermatologist
University of Pittsburgh Medical Center
Pittsburgh, PA
*“Do you see me? Visual Learning Equity: Achieving Diagnostic Excellence in Skin Health and Disease”*

MIRIAM BREDELLA, MD, MBA
Professor of Radiology
Harvard Medical School
Vice Chair for Faculty Affairs and Clinical Operations
Department of Radiology
Massachusetts General Hospital
Boston, MA
*“Using Opportunistic CT and Machine Learning to Diagnose Osteoporosis and Determine Fracture Risk in Underserved Populations”*

NADJA KADOM, MD
Professor of Radiology
Emory University School of Medicine
Neuroradiologist, Department of Radiology
Children’s Healthcare of Atlanta
Atlanta, GA
*“Developing a Patient Decision Aid (PDA) For Use in Children with Headaches”*

KIMBERLY C. CLAEYS, PHARMD, PHD
Associate Professor
Department of Pharmacy and Practice
University of Maryland School of Pharmacy
Baltimore, MD
*“Engaging Antimicrobial Stewardship Pharmacists in Diagnostic Excellence for Urinary Tract Infections”*

DIMITRI PAPANAGNOU, MD, MPH
Professor and Vice Chair for Education
Department of Emergency Medicine
Associate Dean for Faculty Development
Sidney Kimmel Medical College
Thomas Jefferson University
Philadelphia, PA
*“Unfortunately, I Do Not Have a Diagnosis for You: Interprofessional Training for the Equitable Communication of Diagnostic Uncertainty in the Emergency Department”*

CRISTINA M. GONZALEZ, MD, MED
Professor, Department of Medicine
Professor, Department of Population Health
Associate Director, Medical Education, Institute for Excellence in Health Equity
Grossman School of Medicine
New York University
New York, NY
*“Identifying Specific Behaviors within the Diagnostic Process Influenced by Racial Implicit Bias”*

MICHAEL PULIA, MD, PHD
Assistant Professor
Department of Emergency Medicine
University of Wisconsin
Madison, WI
*“Improving Diagnostic Accuracy for Older Adults with Suspected Pneumonia”*
NAYKKY SINGH OSPINA, MD, MS
Associate Professor
Division of Endocrinology
Department of Medicine
University of Florida
Gainesville, FL
“Developing a Framework for Understanding the Process of Diagnostic Reconciliation and Supporting Diagnostic Conversations”

SWATHI ARUR, PHD
Associate Professor and Deputy Chair, Department of Genetics, University of Texas M.D. Anderson Cancer Center

AMI S. BHATT, MD, PHD
Assistant Professor of Medicine (Hematology, BMT) and Genetics; Director of Global Oncology, Center for Innovation in Global Health, Stanford University

BRANDON BROWN, PHD, MPH
Associate Professor of Medicine, Department of Social Medicine, Population, and Public Health, University of California, Riverside

ALEJANDRA CASILLAS, MD, MSHS
Assistant Professor of Medicine in Residence, David Geffen School of Medicine, University of California, Los Angeles

CHRISTOPHER R. COGLE, MD
Professor of Hematology and Oncology, University of Florida

PAUL COHEN, MD, PHD
Albert Resnick, M.D. Associate Professor, The Rockefeller University

CARRIE H. COLLA, PHD
Associate Professor, The Dartmouth Institute for Health Policy & Clinical Practice, Geisel School of Medicine at Dartmouth

DUSTIN T. DUNCAN, SCD
Associate Professor of Epidemiology, Mailman School of Public Health, Columbia University

2022 Emerging Leaders in Health and Medicine Scholars

FELLOWSHIPS & EMERGING LEADERS
ELLEN F. EATON, MD, MSPH  
Associate Professor, Department of Medicine, Division of Infectious Diseases, University of Alabama at Birmingham

JUSTIN BASILE ECHOUFFO TCHEUGUI, MD, PHD  
Associate Professor of Medicine, Johns Hopkins University School of Medicine

HOLLY FERNANDEZ LYNCH, JD, MBE  
Assistant Professor of Medical Ethics and Law, Department of Medical Ethics and Health Policy, Perelman School of Medicine, University of Pennsylvania

ANNA GREKA, MD, PHD  
Associate Professor of Medicine, Brigham and Women’s Hospital and Harvard Medical School; Broad Institute of MIT and Harvard

KELLI STIDHAM HALL, PHD, MS  
Associate Professor, Heilbrunn Department of Population & Family Health, Mailman School of Public Health, Columbia University; Associate Professor, Rollins School of Public Health, Emory University

SIDNEY H. HANKERSON, MD, MBA  
Vice Chair for Community Engagement in Psychiatry, Icahn School of Medicine at Mount Sinai

RONALD L. HICKMAN, JR., PHD, RN, ACNP-BC, FNAP, FAAN  
The Ruth M. Anderson Endowed Chair and Associate Dean for Research, Frances Payne Bolton School of Nursing, Case Western Reserve University

EHSAN HOQUE, PHD  
Assistant Professor of Computer Science; Affiliate faculty, Goergen Institute for Data Science, University of Rochester

GUNISHA KAUR, MD, MA  
Assistant Professor of Anesthesiology and Director, Human Rights Impact Lab, Weill Cornell Medicine

CAPRICE KNAPP, PHD  
Medicaid Director, State of North Dakota

JOSEPH A. LEWNARD, PHD  
Assistant Professor of Epidemiology, University of California, Berkeley

MIGUEL MARINO, PHD  
Associate Professor of Biostatistics, Oregon Health & Science University

MEREDITH T. NILES, PHD  
Associate Professor of Food Systems and Policy, Department of Nutrition and Food Sciences, University of Vermont

ZIAD OBERMEYER, MD  
Acting Associate Professor of Health Policy and Management, University of California, Berkeley

CHRISTINA ANN ROBERTO, PHD  
Mitchell J. Blutt and Margo Krody Blutt Presidential Associate Professor of Health Policy, University of Pennsylvania

CYNTHIA E. ROGERS, MD  
Professor of Psychiatry, Washington University

BENJAMIN N. ROME, MD, MPH  
Instructor in Medicine, Department of Medicine, Division of Pharmacoepidemiology and Pharmacoeconomics, Harvard Medical School and Brigham and Women’s Hospital

CARLO GIOVANNI TRAVERSO, MB, BCHIR, PHD  
Assistant Professor, Department of Mechanical Engineering, Massachusetts Institute of Technology; Gastroenterologist, Division of Gastroenterology, Brigham and Women’s Hospital, Harvard Medical School

BROWNSYNE TUCKER EDMONDS, MD, MPH, MS  
Vice President and Chief Health Equity Officer, Indiana University Health; Associate Professor of Obstetrics and Gynecology and Clinical Pediatrics, and Associate Dean for Health Equity Research, Indiana University

JING WANG PHD, MPH, MSN, RN, FAAN  
Dean and Professor, Florida State University

KEEGAN WARREN-CLEM, JD, LLM  
Director and Managing Attorney, Medical-Legal Partnerships at Texas Legal Services Center; Adjunct Professor, The University of Texas School of Law and McCombs School of Business
Finances 2022

Revenues
- Grants, Contributions, & Other: $13.2M
- NRC Indirects: $3.6M
- Endowment Payout: $2.4M

Expenses
- Programs: $10.5M
- Membership & Council: $1.9M
- Health Policy Fellowships: $2.6M
- Operations: $5.5M
2022 Honor Roll of Donors
We gratefully acknowledge the support of private contributors to the National Academy of Medicine. The collective, private philanthropy of our members and friends helps to enhance the NAM’s mission to lead, inspire innovation, and impact the health of all people.

**Lifetime Giving Societies**
We gratefully acknowledge the following members and friends who have made generous charitable lifetime contributions. Their collective, private philanthropy enhances the impact of the academies as advisor to the nation on matters of science, engineering, and medicine.

**The Lincoln Society**
In recognition of members and friends who have made lifetime contributions of $1 Million or more to the National Academy of Sciences, National Academy of Engineering, or National Academy of Medicine as of December 31, 2022. Boldfaced names are NAM members.

Bruce and Betty Alberts
*A* **Richard** and **Rita** Atkinson
Norman R. Augustine
Craig and Barbara Barrett
Jordan and Rhoda Baruch
Stephen D. Bechtel, Jr.
Arnold and Mabel Beckman
Leonard Blavatnik
Harry E. Bovay, Jr.
Donald Bren
Ralph J.* and Carol M. Cicerone
**Harvey V. Fineberg** and Mary E. Wilson
Bernard M. Gordon
Cecil H. Green
John O. and Candace E. Hallquist
Michael and Sheila Held
**Jane E. Henney** and Robert Graham
William R. and Rosemary B. Hewlett
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Kenneth A. Jonsson
Fred Kavli
Daniel E. Koshland, Jr.*
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The Ambrose Monell Foundation
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**Philip** and **Sima Needleman**
Peter O’Donnell, Jr.*
**Gilbert S. Omenn** and Martha A. Darling
*Jonathan B.* and Donna J. Perlin
Robert* and Mayari Pritzker
Richard L. and Hinda G. Rosenthal*
Martine A. Rothblatt
**Jack W.** and **Valerie Rowe**
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William Rutter
Dame Jillian Sackler
Raymond and Beverly Sackler*
Bernard and Rhoda Sarnat*
**Leonard D. Schaeffer**
Sara Lee and Axel Schupf
James H. and Marilyn Simons
John and Janet Swanson
Marcia and James J. Truchard
Anthony J. Yun and Kimberly A. Bazar

**The Franklin Society**
In recognition of members and friends who have made lifetime contributions of $500,000 to $999,999 to the National Academy of Sciences, National Academy of Engineering, or National Academy of Medicine as of December 31, 2022. Boldfaced names are NAM members.

John and Pat Anderson
Rose-Marie and Jack R. Anderson
John and Elizabeth Armstrong
Kenneth E. Behring
Gordon Bell
**Elkan R.** and Gail F. **Blout**
Russell L. Carson
Charina Endowment Fund
James McConnell Clark
**Barry** and **Bobbi Collier**
Ross and Stephanie Corotis
Henry David*
Richard Evans*
Eugene Garfield Foundation
Theodore Geballe*
Penny and Bill George, George Family Foundation
Christa and Detlef Goge
William T.* and Catherine Morrison Golden
Alexander Hollaender*
Thomas V. Jones*
Cindy and Jeong Kim
Ralph and Claire Landau*
Asta and William W. Lang*
Robin K. and Rose M. McGuire
Marcia K. McNutt
Ruben F.* and Donna Mettler
Dane* and Mary Louise Miller
Oliver E. and Gerda K. Nelson*
Shela and Kumar Patel
Henry and Susan Samuei
Herbert A. and Dorothea P. Simon*
Raymond and Maria Stata
**Roy** and **Diana Vagelos**
Andrew and Erna* Viterbi
Alan M. Voorhees*
Anonymous (2)

*Deceased*
The Marie Curie Society
In recognition of members and friends who have made lifetime contributions of $250,000 to $499,999 to the National Academy of Sciences, National Academy of Engineering, or National Academy of Medicine as of December 31, 2022. Boldfaced names are NAM members.

The Agouron Institute
W.O. Baker*
Warren L. Batts
Elwyn* and Jennifer Berlekamp
Daniel and Lana Branton
George* and Virginia Bugliarello
Gail H. Cassell
Chau-Chyun and Li-Li Chen
Clarence S. Coe*
Rosie and Stirling A. Colgate*
W. Dale and Jeanne C. Compton*
Lance and Susan Davis
Nicholas M. Donofrio
David and Miriam Donoho
Ruth and Victor Dzau
James O. Ellis, Jr. and Elisabeth Paté-Cornell
Dotty* and Gordon England
William L.* and Mary Kay Friend
George and Christine Gloeckler
Paul and Judy Gray
Diane E. Griffin
Jerome H.* and Barbara N. Grossman
Wesley L. Harris
John L. Hennessy
Chad and Ann Holliday
William R. Jackson*
Anita K. Jones
Mary and Howard Kehrl*
Kent Kresa
Mark and Becky Levin
Frances and George Ligler
Stella and Steve Matson
William W. McGuire
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