Targeting Chronic Diseases Through Geroscience

November 4th- 6th, 2019

Natcher Conference Center, NIH
and
The Cloisters, NIH

Organized by
Geroscience Interest Group
of the
National Institutes of Health
U.S. Department of Health and Human Services
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Meeting Objectives

Aging itself is by far the greatest risk factor for most chronic diseases and disabilities which affect older adults. While recent basic research and clinical trials addressing individual diseases has led to increases in life expectancy, this has not always been accompanied by a parallel increase in healthspan, the portion of life spent in good health.

The Geroscience hypothesis posits that since aging physiology plays a role in many – if not all – chronic diseases, therapeutically addressing aging physiology directly will prevent the onset or mitigate the severity of multiple chronic diseases. Thus, the aims of Geroscience are to understand how aging enables diseases and to exploit that knowledge to slow the appearance and progression of age-related diseases and disabilities.

Through developing a deeper understanding of the major underlying causes of age-related vulnerability to chronic disease, Geroscience aims to improve overall health in our later years. Interventions that slow the aging process would dramatically lower health care costs and have societal benefits that are unmatched by the cure of any single disease.

The third Geroscience Summit organized by the trans-NIH Geroscience Interest Group (GSIG) will provide a forum for novel interactions between disease-focused professional societies and foundations, the academic community involved in geroscience research, and drug-discovery groups looking to develop therapies against aging and age-related diseases. The focus will be on drawing the attention of professional societies focused on specific age-related diseases to the emerging field of geroscience and its potential role in combating those diseases.

Specific goals are to:

• Ensure that participants are aware of the potential role of aging biology as a major risk factor in the etiology of the age-related disease of their focus, and the potential benefits of geroscience approaches for treatment of those diseases.

• Identify ways in which advocacy groups, research societies, or foundations can leverage the emerging field of geroscience to support their mission and patient populations.

• Survey the current status of regulatory issues related to geroscience.
Planning Committee

Kristin Abraham, PhD (NIDDK)  Francesca Macchiarini, PhD (NIA)
Johanna Dwyer, DSc (NIH/OD)  Ron Kohanski, PhD (NIA)
Jovier Evans, PhD (NIMH)  Gayle Lester, PhD (NIAMS)
Leslie Frieden, PhD (NIDCR)  Kristy Nicks, PhD (NIAMS)
Paige Green, PhD (NCI)  Young Oh, PhD (NHLBI)
Evan Hadley, MD (NIA)  Mercy Prabhudas, PhD (NIAID)
Todd Haim, PhD (NIA)  Grace Shen, PhD (NEI)
Kevin Howcroft, PhD (NCI)  Felipe Sierra, PhD (NIA)
Chamelli Jhappan, PhD (NCI)  Yisong Wang, PhD (NCCIH)

National Cancer Institute (NCI)
National Center for Complementary and Integrative Health (NCCIH)
National Eye Institute (NEI)
National Heart Lung and Blood Institute (NHLBI)
National Institute on Aging (NIA)
National Institute of Allergy and Infectious Diseases (NIAID)
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
National Institute of Dental and Craniofacial Research (NIDCR)
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
National Institute of Mental Health (NIMH)
National Institutes of Health, Office of the Director (NIH OD)
8:00 am – 8:30 am  Registration

**8:30 am – 8:45 am  Welcoming Remarks**

- Opening Remarks and Orientation  5 minutes
- Francis Collins (Director, NIH)  10 minutes

**8:45 am – 10:15 am  Session I: Principles of Geroscience**

Co-Chairs:  Paige Green (NCI)
            Felipe Sierra (NIA)

- Felipe Sierra (NIA)  10 minutes
- Anne Newman (University of Pittsburgh)  10 minutes
- Terrie Moffitt (Duke University)  10 minutes
- Gordon Lithgow (Buck Institute for Aging Research)  10 minutes

Panel Discussion: 50 minutes

10:15 am – 10:45 am  Break

**10:45 am – 12:15 pm  Session II: Advances in Basic Biology**

Co-Chairs:  Ron Kohanski (NIA)
            Youngsuk Oh (NHLBI)

- Luigi Ferucci (NIA)  12 minutes
- Helen Blau (Stanford University)  12 minutes
- Michael Steffen Kober (University of British Columbia)  12 minutes
- Darren Baker (Mayo Clinic)  12 minutes
- Beth Levine (Texas Southwestern Medical School)  12 minutes

Panel Discussion: 30 minutes

12:15 pm – 1:15 pm  Lunch
Agenda – Day 1

1:15 pm – 2:45 pm  Session III: Successful Partnerships

Co-Chairs:   Kristin Abraham (NIDDK)
             Johanna Dwyer (NIH OD)

Keynote:  Joseph Menetski (Foundation for the National Institutes of Health)  20 minutes

Cyndy B. Cordell (Global Alzheimer’s Platform Foundation)  15 minutes

Steven Clauser (Patient-Centered Outcomes Research Institute)  15 minutes

Debra Reed-Gillette (Centers for Medicare & Medicaid Services)  15 minutes

Panel Discussion: 25 minutes

2:45 pm – 3:15 pm  Break

3:15 pm – 5:00 pm  Session IV: Opportunities I

Co-Chairs:   Jovier Evans (NIMH)
             Kevin Howcroft (NCI)

Russell Shilling - american Psychological Association  5 minutes

Diane Bovenkamp - BrightFocus Foundation  5 minutes

Olivia Okereke - american Association for Geriatric Psychiatry  5 minutes

Stephen Rose - Foundation Fighting Blindness  5 minutes

Alison Steiber - Academy of Nutrition and Dietetics  5 minutes

Shelley Fuld Nasso - National Coalition for Cancer Survivorship  5 minutes

Rita Kalyani - american Diabetes Association  5 minutes

Heidi D. Klepin - american Society of Clinical Oncology  5 minutes

Douglas P. Kiel - american Society of Bone and Mineral Research  5 minutes

Jennifer Westendorf - Orthopedic Research Society  5 minutes

Sue Peschin - The Alliance for Aging Research  5 minutes

Panel Discussion: 40 minutes
Agenda – Day 2

8:00 am – 8:30 am  Registration

8:30 am – 8:35 am  Opening Remarks and Orientation

**8:35 am – 10:00 am  Session V: Advances on Interventions**

Co-Chairs: Chamelli Jhappan (NCI) and Gayle Lester (NIAMS)

Kristy Nicks (NIAMS) and Yisong Wang (NCCIH)

James Kirkland (Mayo Clinic)  12 minutes

Eric Verdin (Buck Institute for Aging Research)  12 minutes

Thomas Rando (Stanford University)  12 minutes

Joan Mannick (resTORbio)  12 minutes

Mary Goldring (Hospital for Special Surgery)  12 minutes

**Panel Discussion: 25 minutes**

10:00 am – 10:30 am  Break

**10:30AM – 12:15 pm  Session VI: Opportunities II**

Co-Chairs: Leslie Frieden (NIDCR)  

Mercy Prabhudas (NIAID)

Marc W. Heft - American Association for Dental Research  5 minutes

Marcelo Araujo - American Dental Association  5 minutes

Gwen Nichols - Leukemia and Lymphoma Society  5 minutes

Sarah Ohlhorst - American Society for Nutrition  5 minutes

Kathyrn Richmond - Allen Institute  5 minutes

Wilson Tang - Heart Failure Society of America  5 minutes

James Appleby - The Gerontological Society of America  5 minutes

Stephanie Lederman - American Federation for Aging Research  5 minutes

Jacques Banchereau - Federation of Clinical Immunology Societies  5 minutes
Panel Discussion: 50 minutes

12:15 pm – 1:30 pm    Lunch

1:30 pm – 3:15 pm    Session VII: Biotech and Implementation

Co-Chairs: Ron Kohanski (NIA)
Gayle Lester and Kristy Nicks (NIAMS)
Farshid Guilak (Washington University) 12 minutes
Marco Quarta (Rubedo Life Sci.) 12 minutes
Livia Wilz Brier (Valitorbio) 12 minutes
Anthony Oliva (Longeveron) 12 minutes
Tony Ratcliffe (Synthasome) 12 minutes
Kelsey Moody (Ichor Therapeutics) 12 minutes

Panel Discussion: 33 minutes

3:15 pm – 3:45 pm    Break

3:45 pm – 5:00 pm    Session VIII: A Look to the Future

Co-Chairs: Evan Hadley (NIA)
Francesca Macchiarini (NIA)
Cynthia Kenyon (Calico) 30 minutes
Tom Kalil (Schmidt Futures) 30 minutes
Closing Remarks
Richard Hodes (Director, NIA)
Session IX – Executive Session I (Grace Shen/Kevin Howcroft/Felipe Sierra)

Session IX will consist of three parallel panels discussing outcomes of the Summit as a whole, and a vision forward. Each of the panels will include basic scientists, representatives of professional societies, and advocates/regulators. Panel Co-Chairs will be charged with envisioning feasible plans for development of partnerships and other activities, with timelines of 2, 5 and 10 years.

Session X – Executive session II (Felipe Sierra/Grace Shen)

Session X will be a reconvening of panelists from session IX, where conclusions will be presented, followed by open discussion among all panelists on ways to proceed to bring those visions and proposals into reality. Specific quantifiable action items are expected.
Meeting Participant List

James C. Appleby, BSPharm, MPH, ScD (Hon)
Chief Executive Officer
The Gerontological Society of America
220 L St NW #901, Washington, DC 20005
Email: jappleby@geron.org

Marcelo Araujo, DDS, MS, PhD
Vice President
Science Institute
American Dental Association
211 E Chicago Ave, Chicago, IL 60611
Email: araujom@ada.org
Admin: mangoldk@ada.org

Darren J Baker, PhD
Associate Professor of Biochemistry and Molecular Biology
Mayo Clinic Rochester
200 1st ST SW
Guggenheim 1511C
Rochester, MN 55905
Email: Baker.Darren@mayo.edu

Jacques Banchereau, Ph.D.
Ad Hoc Director
Federation of Clinical Immunology Societies
Email: jacques.banchereau@jax.org

Helen Blau, PhD
Professor and Director, Baxter Laboratory for Stem Cell Biology
Department of Microbiology and Immunology
Stanford University
269 Campus Drive
CCSR Room 4215
Stanford, CA 94305-5175
Email: HBLAU@STANFORD.EDU

Diane Bovenkamp, PhD
Vice President, Scientific Affairs
BrightFocus Foundation
22512 Gateway Center Drive
Clarksburg, MD 20871
Email: dbovenkamp@brightfocus.org

Livia Wilz Brier, PhD
Director of Nonclinical Research
Valitorbio
820 Heinz Ave, Berkeley CA 94710,
Email: lbrier@valitorbio.com

Francis Collins, MD, PhD
Director
National Institutes of Health
10 Center Dr, Bethesda, MD 20814
Email: execsec1@od.nih.gov
Admin: pelisk@od.nih.gov

Steven Clauser, PhD, MPA
Health Care Delivery and Disparities Research Team
Patient-Centered Outcomes Research Institute (PCORI)
1828 L St., NW, Suite 900 Washington, DC 20036
Email: sclauser@pcori.org

Cyndy B. Cordell, Bs, MBA
Chief of Staff and Marketing
Global Alzheimer’s Platform Foundation
1101 K St NW #400, Washington, DC 20005
Email: cyndy@gloabalalzplatform.org

Luigi Ferrucci, MD, PhD
Scientific Director
National Institute on Aging, NIH
251 Bayview Boulevard, Suite 100
Baltimore, MD 21224
Email: FerrucciLu@grc.nia.nih.gov

Mary Goldring, PhD
Professor of Cell and Developmental Biology
Weill Cornell Medical College
1300 York Ave. Box 65
New York, NY 10065
Email: GoldringM@HSS.EDU
Farshid Guilak, PhD
Mildred B Simon Research Professor of Orthopaedic Surgery
Department of Orthopaedics
Washington University
660 S. Euclid Ave, Campus Box 8233
St. Louis, MO 63110
Email: guilak@wustl.edu

Marc W. Heft, DMD, MA, PhD
Professor
Department of Oral and Maxillofacial Surgery
University of Florida, College of Dentistry
1395 Center Drive, Gainesville, FL 32610
Email: mwheft@ufl.edu

Richard Hodes, MD
Director
National Institute on Aging, NIH
Gateway Building
7201 Wisconsin Avenue
Bethesda MD 20814
Email: hodesr@31.nia.nih.gov

Rita R. Kalyani, MD, MHS
Past Chair, American Diabetes Association’s Professional Practice Committee
Division of Endocrinology, Diabetes, & Metabolism
Johns Hopkins University School of Medicine
1830 E Monument St # 8059, Baltimore, MD 21287
Email: rrastogi@jhmi.edu

Cynthia Kenyon, PhD
Vice President, Aging Research
Calico Life Sciences LLC
170 Veterans Blvd, South San Francisco, CA 94080
Email: cynthia@calicolabs.com

Douglas P. Kiel, MD, MPH
Director, Musculoskeletal Research Center
Senior Scientist, Hinda and Arthur Marcus Institute for Aging Research
1200 Centre Street
Boston, MA 02131
Email: kiel@hsl.harvard.edu

James L. Kirkland, MD, PhD
Director
Robert and Arlene Kogod Center on Aging
Mayo Clinic
200 First St. SW
Rochester, MN 55905
Email: kogodagingcenter@mayo.edu

Tom Kalil
Chief Innovation Officer
Schmidt Futures
954 Carol Lane
Lafayette CA 94549
Email: tkalil2050@gmail.com

Heidi D. Klepin, MD, MS
Past Chair, Cancer Research Committee, American Society of Clinical Oncology
Wake Forest University Baptist Medical Center
Medical Center Blvd, Winston-Salem, NC 27157
Email: hklepin@wakehealth.edu

Michael S. Kobor, PhD
Professor, Department of Medical Genetics
Canada Research Chair in Social Epigenetics
University of British Columbia
AS-151, Centre for Molecular Medicine and Therapeutics
950 West 28th Avenue
Vancouver, BC
VSZ 4H4 Canada
Email: msk@cmmt.ubc.ca

Stephanie Lederman
Executive Director
American Federation for Aging Research (AFAR)
55 West 39th Street, 16th Floor
New York, NY 10018
Email: stephanie@afar.org

Bethe Levine, MD
Howard Hughes Medical Institute
Professor of Internal Medicine and Microbiology
Director, Center for Autophagy Research
UT Southwestern Medical Center
5323 Harry Hines Blvd.
Dallas, TX 75390-9113
Email: Beth.Levine@UTSouthwestern.edu
Gordon Lithgow, PhD  
Professor and Chief Academic Officer  
Buck Institute for Aging Research  
8001 Redwood Blvd, Novato, CA 94945  
Email: glithgow@buckinstitute.org

Joan Mannick, PhD  
Chief Medical Officer, resTORbio  
500 Boylston Street, 13th Floor  
Boston, MA 02116  
Email: JMannick@restorbio.com

Joseph Menetski, PhD  
Associate Vice President, Research Partnerships  
Foundation for the National Institutes of Health (FNIH)  
11400 Rockville Pike Suite 600  
North Bethesda, MD 20852  
Email: jmenetski@fnih.org

Kelsey Moody, PhD, MBA  
Chief Executive Officer  
Ichor Therapeutics, Inc.  
2521 US Route 11  
LaFayette, NY 13084  
Email: kelsey.moody@ichortherapeutics.com

Terrie Moffitt, PhD  
Professor  
Departments of Psychology and Neuroscience, Psychiatry and Behavioral Sciences and Center for Genomic and Computational Biology  
Suite 201 Grey House  
2020 West Main Street  
Duke University  
Durham, NC 27708  
Email: terrie.moffitt@duke.edu

Shelley Fuld Nasso, MPP  
Chief Executive Officer  
National Coalition for Cancer Survivorship  
8455 Colesville Rd, Suite 930  
Silver Spring, MD 20910  
Email: sfuldnasso@canceradvocacy.org

Anne Newman, MD, MPH  
Director  
Center for Aging and Population Health  
University of Pittsburgh  
5126 Public Health, 130 DeSoto Street  
Pittsburgh, PA, 15261  
Email: newmana@edc.pitt.edu

Gwen Nichols, MD  
Chief Medical Officer  
Leukemia and Lymphoma Society  
161 Fort Washington Ave, New York, NY 10032  
Email: gwen.nichols@lls.org  
Admin: Bernadette.ODonoghue@lls.org

Sarah D. Ohlhorst, MS, RD  
Senior Director of Advocacy and Science Policy  
American Society for Nutrition  
9211 Corporate Blvd, Suite 300  
Rockville, MD 20850  
Email: sohlhorst@nutrition.org

Olivia Okereke, PhD  
Associate Professor in the Department of Epidemiology  
Channing Laboratory, 3rd Floor  
181 Longwood Avenue  
Boston, Massachusetts 02115  
Email: ookereke@partners.org

Anthony A. Oliva, PhD  
Longeveron LLC  
1951 NW 7th Avenue, Suite S20  
Miami, FL 33136  
Email: www.linkedin.com/in/anthonyaoliva/

Sue Peschin  
President  
Alliance for Aging Research  
1700 K St NW #740, Washington, DC 20006  
Email: speschin@agingresearch.org

Marco Quarta, PhD, MS  
Molecular Medicine Research Institute  
428 Oakmead Pkwy, Sunnyvale, CA 94085  
Email: marcoquarta@rubedolife.com

Tony Ratcliffe, PhD  
President and CEO  
Synthasome, Inc  
2658 Del Mar Heights Road, #370  
Del Mar, CA 92014  
Email: anthonyratcliffe@synthasome.com
Thomas Rando, MD, PhD
Professor
Department of Neurology
Room H3160
Stanford University Medical Center
Stanford, CA 94305
Email: rando@stanford.edu

Debra Reed-Gillette
Director, Survey Management and Analysis Group
Centers for Medicare & Medicaid Services (CMS)
Email: debra.reed-gillette@cms.hhs.gov

Kathy Richmond, PhD, MBA
Director
The Paul G. Allen Frontiers Group,
Allen Institute
615 Westlake Avenue North
Seattle, WA 98109
Email: kathrynr@alleninstitute.org

Stephen Rose, PhD
Senior Scientific Advisor
Foundation Fighting Blindness
7168 Columbia Gateway Drive, Suite 100
Columbia, MD 21046
Email: Srosee@fightingblindness.org

Russell Shilling, PhD
Chief Scientific Officer
American Psychological Association
750 First St. NE, Washington, DC 20002
Email: RShilling@apa.org

Allison Steiber, PhD, RDN
Chief Scientific Officer
Academy of Nutrition and Dietetics
Research International and Scientific Affairs
1120 Connecticut Ave NW #460
Washington, DC 20036
Email: asteiber@eatright.org
Admin: schassagne@eatright.org

Wai Hong Wilson Tang, MD
Heart Failure Society of America
Lerner Research Institute
9500 Euclid Avenue
Cleveland, Ohio 44195
Email: tangw@ccf.org

Eric Verdin, MD
President and CEO of the Buck Institute
for Research on Aging
8001 Redwood Blvd
Novato, CA 94945
Email: everdin@buckinstitute.org

Jennifer J. Westendorf, PhD
Margaret Amini Professor of Orthopedic Regenerative
Medicine Research
Mayo Clinic
200 First Street SW, MSB 3-71
Rochester, MN 55905
Email: westendorf.jennifer@mayo.edu

ORGANIZERS

Kristin Abraham, PhD
Division of Diabetes, Endocrinology & Metabolic Diseases
NIDDK
6707 Democracy Blvd, Rm 7223
Bethesda, MD 20892-5460
Email: abrahamk@mail.nih.gov

Johanna Dwyer, DSc, RD
Office of the Director
Office of Dietary Supplements
BG 6100 RM 3801M
6100 Executive Blvd.
Rockville MD 20852
Email: dwyerj1@mail.nih.gov

Jovier Evans, PhD
Division of Translational Research, NIMH
6001 Executive Blvd, Room 7113
Rockville, MD 20852
Email: jevans1@mail.nih.gov

Leslie Frieden, PhD
Research Training and Career Development Branch
National Institute of Dental and Craniofacial Research
Email: leslie.frieden@nih.gov

Paige Green, PhD
Behavioral Research Program
Division of Cancer Control and Population Sciences,
National Cancer Institute
9609 Medical Center Dr., MSC 9761
Room 3E133
Rockville, MD 20850
Email: paige.green@nih.gov
Evan Hadley, MD
Division of Geriatrics and Clinical Gerontology
National Institute on Aging
Gateway Building, Suite 3W200
7201 Wisconsin Avenue
Bethesda MD 20892
Email: ehadley@nih.gov

Todd Haim, PhD
Chief, Office of Small Business Research
National Institute on Aging (NIH/NIA)
Gateway Building, Suite 311
7201 Wisconsin Ave.
Bethesda, MD 20892
Email: todd.haim@nih.gov

Kevin Howcroft, PhD
Cancer Immunology Hematology and Etiology Branch (CIHEB)
Division of Cancer Biology, NCI/NIH
9609 Medical Center Drive, Room 6W532
Rockville, MD 20850-9745
Email: Howcroftk@mail.nih.gov

Chameli Jhappan, PhD
Cancer Immunology Hematology and Etiology Branch (CIHEB)
Division of Cancer Biology, NCI/NIH
9609 Medical Center Drive, Room 6W560
Rockville, MD 20850-9745
Email: jhappanc@mail.nih.gov

Ron Kohanski, PhD
Division of Aging Biology
National Institute on Aging
Gateway Building, Suite 3N300
7201 Wisconsin Avenue
Bethesda MD 20892
Email: 3kohanskir@mail.nih.gov

Gayle Lester, PhD
Building 1 Democracy, Room 870
6701 Democracy Blvd.
Bethesda, MD 20817
Email: lester1@mail.nih.gov

Francesca Macchiarini, PhD
Biological Resources Branch
Division of Aging Biology, National Institute on Aging
Gateway Building, Suite 3N300
Bethesda MD 20892
Email: Francesca.Macchiarini@nih.gov

Kristy Nicks, PhD
Building 1 Democracy, Room 837
6701 Democracy Blvd.
Bethesda, MD 20817
Email: kristy.nicks@mail.nih.gov

Young Oh, PhD
Vascular Biology and Hypertension Branch
Division of Cardiovascular Sciences
National Heart, Lung, and Blood Institute
6701 Rockledge Drive, RLKII, Room 8106
Bethesda, MD 20892
Email: yoh@nhlbi.nih.gov

Mercy Prabhudas, PhD
Basic Immunology Branch
Division of Allergy, Immunology and Transplantation
NIAID, NIH
5601 Fishers Lane, #7B57
Rockville, MD 20852
Email: mprabhudas@niaid.nih.gov

Grace Shen, PhD
Retinal Diseases Program
Division of Extramural Science Programs
Vision Research Program
National Eye Institute, NIH
6700 B, Rockledge Dr, Suite 3400/MSC 6914
Bethesda, MD 20817
Email: sheng@mail.nih.gov

Felipe Sierra, PhD
Division of Aging Biology
National Institute on Aging
Gateway Building, Suite 3N300
7201 Wisconsin Avenue
Bethesda MD 20892
Email: sierraf@mail.nih.gov

Yisong Wang, PhD
Basic and Mechanistic Research Branch
Division of Extramural Research, NCCIH/NIH
6707 Democracy Blvd., Suite 401
Bethesda, MD 20892-5475
Email: yisong.wang@nih.gov
Join the conversation on Twitter: #Geroscience