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| **Workshop: Is there a causative role for infectious agents in Alzheimer’s Disease?****National Institute on Aging****Division of Neuroscience****October 5-6, 2021**The goal of this workshop is to discuss whether microbial pathogens may represent a causal component of Alzheimer’s disease, review knowledge gaps, and establish scientific priorities to address these gaps. Draft Agenda |
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| **DAY ONE** |
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| 10:00 a.m. | Welcome Remarks | Eliezer Masliah (NIA) |
| 10:10 a.m. | Workshop Objectives | NIA DN Staff |
| **Keynote** |
| 10:20 - 10:55 a.m. | The Antimicrobial Protection Hypothesis of Alzheimer’s Disease | Rudolph Tanzi(Harvard University) |
| Break– 5 min |
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| **Session I: Herpes simplex and Alzheimer’s Disease – the epidemiological perspective****Session Chair:**  **Steven Jacobson** |
| 11:00 a.m. | Herpes virus infections, antiviral treatment and Alzheimer's disease | Hugo Lövheim(Umeå University, Sweden) |
| 11:15 a.m. | Association of herpesvirus diagnosis, anti-herpesviral treatment and herpesvirus vaccination with dementia | Christian Schnier (University of Edinburgh, UK) |
| 11:30 a.m.  | Interrogating the brain microbiome in Alzheimer’s disease: Challenges and opportunities | Benjamin Readhead (Arizona State University) |
| 11:45 a.m. | Human Herpesvirus 6 detection in Alzheimer's disease cases and controls across multiple cohorts | Steven Jacobson(NINDS IRP, NIH) |
| 12 – 12:30 pm | **Moderated Discussion** | Moderator: Steven Jacobson(NINDS IRP, NIH) |
| Lunch Break – 30 min |
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| **Session II: Herpes Viruses and Alzheimer’s Disease -The Debate Continues****Session Chair: Maria Nagel** |
| 1:00 p.m. | Amyloid beta and HSV1: A model for examining infection and innate immunity in Alzheimer's Disease | William Eimer(Harvard University) |
| 1:15 p.m. | Testing the hypothesis on viral etiology of late onset Alzheimer's disease | Ilia Baskakov(University of Maryland) |
| 1:30 p.m. | Exposure to Infectious Agents and Cognitive Function: the Baltimore Epidemiologic Catchment Area Study Follow-Up | Adam Spira (Johns Hopkins Bloomberg School of Public Health) |
| 1:45 p.m. | The potential role of Bacteroides in Alzheimer’s disease | Laura Cox(Harvard)  |
| 2:00 p.m. | Enterobacterial infections as drivers of tauopathies | Irene Salinas(University of New Mexico) |
| 2 – 2:30 p.m. | **Moderated Discussion** | Moderator: Maria Nagel (University of Colorado) |
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| ADJOURN DAY ONE |
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| **DAY TWO** |
| **Session III: Pathogens and Alzheimer’s Disease - Is there evidence for causation?****Session Chair: Adam Spira** |
| 9:55 a.m. | Welcome to Day Two | NIA DN Staff |
| 10:00 a.m. | Single-cell dissection of pathogen-associated changes in Alzheimer's Disease | Manolis Kellis (MIT) |
| 10:15 a.m. | Periodontal disease and cognitive aging in a multiethnic cohort: Findings from the Washington Heights-Inwood Columbia Aging Project (WHICAP) Ancillary Study of Oral Health | James Noble(Columbia University) |
| 10:30 a.m. | Porphyromonas gingivalis in Alzheimer's disease brains: Evidence for disease causation and treatment with small-molecule inhibitors | Stephen Dominy(Cortexyme, Inc., San Francisco) |
| Break – 15 min |
| 11:00 a.m. | Clearance of amyloid beta in Toxoplasma-infected murine models of Alzheimer’s disease | Melissa Lodoen (UC Irvine) |
| 11:15 a.m. | Microglia, genetics and pathogens in AD | Elisabeth Bradshaw(Columbia University) |
| 11:30 a.m.  | Cerebrospinal fluid immunity in Alzheimer’s disease | David Gate (Northwestern University) |
| 11:45 -12:15 a.m. | Moderated Discussion | Moderator: Adam Spira (Johns Hopkins Bloomberg School of Public Health) |
| Lunch Break- 30 min |
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| **Session III (cont.): Pathogens and Alzheimer’s Disease - Is there evidence for causation?** **Session Chair: Avindra Nath** |
| 12:45 p.m. | HIV/AIDS and Alzheimer’s Disease  | Eliezer Masliah |
| 1:00 p.m. | Virus and olfactory system interactions accelerate Alzheimer’s disease pathology | Maria Nagel(University of Colorado) |
| 1:15 p.m. | HHV6A and Alzheimer’s disease  | Chris Proschel(University of Rochester) |
| Break 15 min |
| 1:45 p.m. | Effects of Chlamydia pneumoniae infection on the brain and retina in Alzheimer’s Disease | Timothy Crother and Maya Koronyo-Hamaoui(Cedars-Sinai Medical Center) |
| 2:00 p.m. | Polymicrobial “Lichenoid” Cerebritis in Alzheimer’s Disease and Preclinical Models | David Corry(Baylor College of Medicine) |
| 2:15 p.m. | Repurposing of existing vaccines for Alzheimer’s prevention | Svetlana Ukraintseva (Duke University) |
| 2:30 -3:00 pm | **Moderated Discussion** | Moderator: Avindra Nath(NINDS, IRP) |
| Break 10 min |
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| 3:10 pm | **Synthesis by Moderators**  |  |
| 3:40 pm | **Final discussion** | Mack Mackiewicz |
| 4:10 pm | **Closing Remarks** | Eliezer Masliah |
| MEETING ADJOURNS |

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