### ALZHEIMER'S AND RELATED DISEASES RESEARCH AWARD FUND (ARDRAF)

Grants awarded since enactment in 1982 by the Virginia General Assembly (Code of Virginia, Title 51.5, Section 153).

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<th>Year</th>
<th>Institution</th>
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<tr>
<td>1982</td>
<td>VCU/VCV</td>
<td>Lindon J. Eaves, Ph.D.</td>
<td>&quot;Genetic Heterogeneity in Senile and Presenile Dementias of the Alzheimer's Type&quot;</td>
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<tr>
<td></td>
<td>VCU/VCV</td>
<td>Elizabeth Harkins, Ph.D.</td>
<td>&quot;Incidence of Alzheimer's and Related Diseases, Mortality, and Institutionalization among High Risk Elderly Virginians&quot;</td>
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<tr>
<td>1983</td>
<td>UVA</td>
<td>H. Robert Brashear, M.D.</td>
<td>&quot;Nucleus Basalis Changes in Pick's Disease&quot;</td>
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<tr>
<td></td>
<td>UVA</td>
<td>John Savory, Ph.D.</td>
<td>&quot;The Effect of Plasma Protein Binding of Aluminum in Altering Permeability of Brain Tissue to Aluminum&quot;</td>
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<td>1984</td>
<td>UVA</td>
<td>George Alheid, Ph.D.</td>
<td>&quot;Heavy Metal Labeling of Ventral Forebrain Neurons&quot;</td>
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<td>GMU</td>
<td>Jody Bennett, Ed.D.</td>
<td>&quot;Needs Assessment of Persons with Alzheimer's Disease&quot;</td>
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<tr>
<td>1985</td>
<td>VCU/VCV</td>
<td>George DeVries, Ph.D.</td>
<td>&quot;Relationship of Axolemmas Antibody Induced Neuropathology to Alzheimer's Disease&quot;</td>
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<tr>
<td></td>
<td>UVA</td>
<td>Ivan S. Login, M.D.</td>
<td>&quot;Cortical Deficiency of Somatostatin in Alzheimer's Disease: Effects on Biochemistry and Physiology&quot;</td>
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<td>UVA</td>
<td>Eric W. Lothman, M.D., Ph.D.</td>
<td>&quot;In Vitro Studies of Functional Properties of Basal Forebrain Cholinergic Neurons&quot;</td>
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<tr>
<td></td>
<td>UVA</td>
<td>John Savory, Ph.D.</td>
<td>&quot;Alzheimer's Disease Neuropathology: Development of an In Vitro Model of Cytoskeletal Changes&quot;</td>
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1986  
VA TECH  William Blaker, Ph.D., "The Role of Axonally Transported Phospholipids in the Synthesis of Acetylcholine"

VCU/MCV  Vincent Calabrese, M.D., "Immunologic Response in Dementia of the Alzheimer's Type"

VCU  Barbara Myers, Ph.D. and Gary Creasey, Ph.D., "Alzheimer's Disease: Effects on Child and Family Life"

VCU/MCV  Iris Parham, Ph.D. and Joan Wood, Ph.D., "Ethnic and Cultural Issues in Family Caregiving"

EVMS  Patricia Williams, Ph.D., "Abnormal Calcium Uptake as Expressed by Fibroblasts from Patients with Alzheimer's Disease"

1987  
VCU/MCV  Lorna M. Barrell, Ph.D., R.N., "Needs Assessment of Persons with Alzheimer's Disease and Their Family Caregivers"

VCU/MCV  Richard A. Glennon, Ph.D., "Discriminative Stimulus Properties of the Psychogeriatric Agent Pramiracetam in Rats"

VCU/MCV  Susan E. Robinson, Ph.D., "Regulation of Basal Forebrain Cholinergic Neurons"

UVA  John Savory, Ph.D., "Effect of Aluminum on Amyloid Gene Expression in a Rabbit Model for Alzheimer's Disease"

EVMS  Patricia B. Williams, Ph.D., "Mechanism for Abnormal Calcium Uptake by Fibroblasts from Patients with Alzheimer's Disease"

1988  
VA TECH  William D. Blaker, Ph.D., "The Influence of Cholinergic Afferents on the Somatostatinergic System in the Rat Hippocampus"

UVA  Lennart Heimer, M.D., "Degeneration of Higher Order Olfactory Pathways in Alzheimer's Disease"

VCU/MCV  Alfred J. Richard, Ph.D., "The Interactions of THA with DNA as a Function of Ionic Strength and Drug Concentration"

UVA  Claire Levesque, M.D., "Quantitative Autoradiographic Analyses of Changes in Cholinergic Markers in Alzheimer's Disease and Aging"
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<tr>
<td>1989</td>
<td>VCU/MCV</td>
<td>Donald J. Abraham, Ph.D.,</td>
<td>&quot;Specific Ligands for Alzheimer's Disease Beta-Amyloid Protein&quot;</td>
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<td>UVA</td>
<td>Felicia Gaskin, Ph.D.,</td>
<td>&quot;Comparison of Antibodies in Alzheimer's Disease and Down's Syndrome&quot;</td>
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<td></td>
<td>VCU/MCV</td>
<td>Heidi F. Villanueva, Ph.D.,</td>
<td>&quot;Blockade of AF64A (Ethylcholine Aziridinium Ion) - Induced Memory Impairment in Rats via Pretreatment with Cholinergic Agonists&quot;</td>
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<tr>
<td></td>
<td>UVA</td>
<td>Michael R. Wills, M.D., Ph.D.,</td>
<td>&quot;Aluminum-Induced Neurofibrillary Pathology - - Similarities to Human Motoneuron Disease&quot;</td>
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<td>1990</td>
<td>VCU/MCV</td>
<td>James M. Collins, Ph.D.,</td>
<td>&quot;Altered Membrane Fluidity of Peripheral Blood Cells of Alzheimer's Disease&quot;</td>
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<td></td>
<td>VCU/MCV</td>
<td>Linda M. Dougherty, Ph.D. and Joan B. Wood, Ph.D.,</td>
<td>&quot;Emotional &amp; Personality Factors Related to Caregivers' Adaptation&quot;</td>
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<td></td>
<td>UVA</td>
<td>Carol A. Manning, Ph.D.,</td>
<td>&quot;Glucose Enhancement of Memory in Patients with Alzheimer's Disease&quot;</td>
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<td>EVMS</td>
<td>Bruce W. Tedeschi, Ph.D. and Francis J. Liuzzi, Ph.D.,</td>
<td>&quot;The Effects of Amyloid-Associated Protease Inhibitors on Neuronal Pathology&quot;</td>
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<tr>
<td>1991</td>
<td>VCU</td>
<td>Joyce O. Beckett, Ph.D.,</td>
<td>&quot;Family Care of African-Americans with Dementia&quot;</td>
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<td>WESTERN STATE</td>
<td>Bernice A. Marcopulos, Ph.D. and David Steiner, M.D.,</td>
<td>&quot;Periodicity of Agitated Behaviors in Patients with Alzheimer's Disease and Related Disorders: Relationship to Circadian Change in Cognition, Physiological Variables, and Environmental Milieu&quot;</td>
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<td>VCU/MCV</td>
<td>Glenn C. Van Tuyle, Ph.D.,</td>
<td>&quot;Accumulation of Partially Deleted DNA as a Basis for Aging and Aging-Related Diseases&quot;</td>
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<td>VCU/MCV</td>
<td>Robert K. Yu, Ph.D. and Megumi Saito, M.D., Ph.D.,</td>
<td>&quot;Ganglioside Changes in Alzheimer's Brain&quot;</td>
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<td>1992</td>
<td>UVA</td>
<td>Daniel J. Cox, Ph.D., &quot;The Presence and Progression of Driving Disability in Alzheimer's Disease Patients&quot;</td>
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<td>FAMILY</td>
<td>Lin E. Noyes, R.N., M.S.N. and Shelley K. Gardner, M.A., N.H.A., &quot;Measuring the Effectiveness of a Supervised CENTER Practicum as an Adjunct to Training Family Caregivers&quot;</td>
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<td>John Savory, Ph.D., &quot;Reversal of Al-induced Neurodegeneration by Desferrioxamine&quot;</td>
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<td>UVA</td>
<td>Patricia A. Trimmer, Ph.D., &quot;Regulation of Astrocyte Gene Expression in Young Adult and Aged Rats in Response to Neuronal Degeneration&quot;</td>
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<td>1993</td>
<td>UVA</td>
<td>Shelley Halpain, Ph.D., &quot;Regulation of TAU Phosphorylation in Intact Neurons&quot;</td>
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<td>Suzanne Holroyd, M.D., &quot;A Pilot Study of Visual Hallucinations in Patients with A.D.&quot;</td>
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<td>Susan Robinson, Ph.D., &quot;Role of Nicotine Receptors in the Regulation of Cholinergic Neurons&quot;</td>
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<td>EVMS</td>
<td>Bruce Tedeschi, Ph.D., &quot;Does the Amyloid Peptide (A4B) Have Molecular Associations with Heat Shock Chaperone Proteins?&quot;</td>
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<td>1994</td>
<td>VCU/MCV</td>
<td>Marc W. Fariss, Ph.D., &quot;Tacrine-Mediated Hepatotoxicity: Role of Protein Synthesis Inhibition&quot;</td>
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<td>UVA</td>
<td>Samuel A. Green, Ph.D., &quot;Rapid Constitutive Lysosomal Targeting of Amyloid Precursor Protein&quot;</td>
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<td>VA TECH</td>
<td>Bradley G. Klein, Ph.D., &quot;Glia-derived Trophic Cytokines Associated with Alzheimer's Disease: Neuroplasticity as a Putative Precursor to Neuropathology&quot;</td>
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<td>UVA</td>
<td>Daniel B. Willingham, Ph.D. &amp; Carol Manning, Ph.D., &quot;Motor Skill in Alzheimer's Disease&quot;</td>
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1995  
VCU/MCV  
John W. Bigbee, Ph.D., "Studies on Possible Neurotoxic Effects of Acetylcholinesterase Inhibitors Used in Alzheimer's Disease Treatment"

UVA  
Heidi Scorable, Ph.D., Shelley Halpain, Ph.D. and David Brautigan, Ph.D., "Investigation into the Role of PP2A in Alzheimer's-like Cytoskeletal Alterations Using a Novel Inducible Gene Expression System"

UVA  
Patricia A. Trimmer, Ph.D., "Reactive Astrocytes in Aging and Alzheimer's Disease: Neurotrophic Factors"

VCU/MCV  
Richard B. Westkaemper, Ph.D., "Molecular Models of the Nicotinic Receptor: A Potential Route to the Rational Design of Agents to Treat Alzheimer's Disease"

1996  
EVMS  
Frank J. Castora, Ph.D., “Analysis of the Role of Mitochondrial DNA in Alzheimer’s Disease Using mtDNA-Depleted Cells”

VDEM  
Robert J. Koester, M.S., “Behavioral and Statistical Profile of Lost Alzheimer’s and Related Diseases Subjects in Virginia”

UVA  
John Savory, Ph.D., “Amyloid Precursor Protein and Tau Aggregation in Neuritic Tangles in Aging”

UVA  
Daniel B. Willingham, Ph.D., “Intrapatient Variability in Alzheimer’s Disease”

1997  
UVA  
Thomas C. Foster, Ph.D., "Mechanism for Memory Impairment and Pathophysiology Associated with Aging and Alzheimer's Disease"

EVMS  
Evan T. Keller, D.V.M., Ph.D. and Paul F. Aravich, Ph.D. "Do Free Radicals Induce Interleukin-6 Expression in the Rat Hippocampus? A Model for Alzheimer's Disease"

EVMS  
Francis J. Liuzzi, Ph.D., "Does Estrogen Protect Basal Forebrain Neurons from Neurodegenerative Changes?"

UVA  
Russell H. Swerdlow, M.D., "Cytochrome Oxidase Associated Pathophysiology in Alzheimer's Disease"
1998  
VCU  J. James Cotter, Ph.D., "Special Care for Persons with Alzheimer's Disease and Related Disorders: The Response of Virginia's Nursing Facilities, Adult Care Residences and Home Care Agencies"

VA TECH  Bradley G. Klein, Ph.D. and Jeffrey Bloomquist, Ph.D., "Improved Visualization and Localization of the Neural Substrates of Experimental Parkinsonism"

UVA  Carol A. Manning, Ph.D. and J. Hunter Downs, III, Ph.D., "Brain Effect of Glucose Facilitation on Memory in Alzheimer's Disease: A Functional Magnetic Resonance Imaging Study"

1999  
GMU  Giorgio Ascoli, Ph.D., "Effect of Dendritic Morphology on Neuronal Electrophysiology in a Lesion Model of Alzheimer's Disease"

UVA  Suzanne Holroyd, M.D. and Andrew Wolf, M.D., "Attitudes on Whether Physicians Should Tell Alzheimer's Disease Patients Their Diagnosis"

VA TECH  Shannon E. Jarrott, Ph.D., "The Effects of Instrumental Assistance on Family Caregivers of Patients with Dementia"

UVA  Virginia Simnad, M.D., "Alteration in Proton Spectra of the Hippocampus to Oral Ingestion of Glucose in Alzheimer's Disease"

VCU  Patricia W. Slattum, Pharm.D., Ph.D. and Vivien E. James, Pharm.D., "Anticholinergic Medication Use in Elderly Patients Diagnosed with Dementia or Taking Acetylcholinesterase Inhibitors"

2000  
UVA  James P. Bennett, Jr., M.D., Ph.D. & Christine Thiffault, Ph.D. "Mitochondria Membrane Potential in Alzheimer's Disease"

Goodwin House  Sheila Caswell, Mary A. Corcoran, Ph.D, O.T.R., & Karen Love "A Staff-Developed Program to Enhance Care Quality for Residents with Dementia"

EVMS  Barbara Freund, Ph.D., R.N. "Use of the Clock Drawing Test as a Screen for Declining Driving Competency in Cognitively Impaired Older Adults"

VCU/MCV  Mohammed Kalimi, Ph.D. "Amyloid Beta Protein-Induced Hippocampal Cell Death: Mechanism of Action"

VCU/MCV  Elizabeth O'Keefe, M.D., Pamela Parsons, G.N.P., & Peter Boling, M.D. "Percutaneous Endoscopic Gastrostomy (PEG) for Nutritional Support in Persons with Advanced Dementia and Feeding Difficulties: Do the Outcomes Fulfill the Expectations of the Decision-Maker?"

VA Tech  Sherry Schofield-Tomschin, Ph.D. & Anna Marshall-Baker, Ph.D. "Tactile and Visual Stimuli in Alzheimer's Care Units: Incorporating Quilts in the Living Environment"
2001

UVA  Erik J. Fernandez, Ph.D.  "Revealing Amyloid-β Structure and Oligomer Distributions Using Mass Spectrometry"

UVA  Carol Manning, Ph.D. and Kathleen Fuchs, Ph.D.  "The Subjective and Objective Experience of Women at Genetic Risk for Alzheimer's Disease"

UVA  John Savory, Ph.D. and Othman Ghribi, Ph.D.  "Stress in the Endoplasmic Reticulum Mediates Active Neuronal Death in Experimental Neurodegeneration"

VCU/MCV  Jurgen Venitz, M.D., Ph.D. and Yuxin Men, M.D.  "Pharmacokinetic/Pharmacodynamic (PK/PD) Modeling of the Interaction of IV Scopolamine and Physostigmine in Healthy Elderly Volunteers"

VCU/MCV  Janet H. Watts, Ph.D., O.T.R. and Jodi L. Teitelman, Ph.D.  "Alzheimer's Disease Caregiver Occupational Performance, Respite as a Mental Break, and Program Implications"

2002

VA Tech  Paul R. Carlier, Ph.D.  “Structure-Based Design of Dimeric Memory Enhancing Drug”

VCU  J. James Cotter, Ph.D., E. Ayn Welleford, Ph.D. and K. Vesley  "Improving the Capacity of Home Care Aides in Rural Areas Serving Persons with Alzheimer’s Disease and Related Disorders"

UVA  Elana Farace, Ph.D. and Mark E. Shaffrey, M.D.  “Neurocognitive Discrimination of Alzheimer's from Normal Pressure Hydrocephalus Verified by Brain Biopsy”

JMU  Merle E. Mast, Ph.D. and Marilyn Wakefield, Ph.D.  “Rural Family Caregivers’ Perceptions of Facilitators and Deterrents to the Use of In-Home Respite”

Mountain Empire Older  Marilyn Pace Maxwell, M.S.W. and Michael Creedon, D.S.W  “Using the Internet for Alzheimer’s Care: The Challenge for Citizens, Inc. Elders and Service Organizations in Approach”
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<tr>
<td>2003</td>
<td>UVA</td>
<td>James P. Bennett, M.D., Ph.D. and Bradley Miller, M.D., Ph.D.</td>
<td>“Mitochondrial DNA Deletions and Mutations in Alzheimer’s Disease Brain Neurons”</td>
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<td>VA Tech</td>
<td>Toni Calasanti, Ph.D.</td>
<td>“Gender Differences in Informal Care Work for Persons with Alzheimer’s Disease”</td>
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<td>VA Tech</td>
<td>Shannon E. Jarrott, Ph.D. and P. Diane Relf, Ph.D.</td>
<td>“Horticulture Therapy for Persons with Dementia: Replication of a Pilot Study”</td>
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<td>2004</td>
<td>UVA</td>
<td>Kathleen Fuchs, Ph.D.</td>
<td>“Beyond Memory Impairment in MCI: Executive Abilities and Implications for Functioning”</td>
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<td>UVA</td>
<td>David S. Geldmacher, M.D.</td>
<td>“Eye-Movement Approaches to Information Processing Abnormalities in Mild Cognitive Impairment”</td>
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<tr>
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<td>VA Tech</td>
<td>Anne Glass, Ph.D.</td>
<td>“The End-of-Life Care Experience for Alzheimer’s Patients and Their Families”</td>
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<td>Mountain Empire Older Citizens, Inc.</td>
<td>Marilyn Pace Maxwell, M.S.W. and Michael Creedon, D.S.W</td>
<td>“Developing, Implementing, and Evaluating Training Modules for High School Students to Teach Alzheimer’s Caregivers to Use the Internet Effectively as a Tool to Assist in Caring for Their Family Members”</td>
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2005


GMU  Pamela M. Greenwood, Ph.D. and Karl Fryxell, Ph.D.  “Use of Allelic Association to Study the Genetics of Cognitive Aging”

College of William and Mary  Christine J. Jensen, Ph.D. and colleagues “Promoting an Effective Partnership between Families Coping with Alzheimer’s Disease and Their Healthcare Providers”

UVA  Michelle King, Ph.D.  “Direct Interactions between A and Tau in Cultured Cells”

Virginia Tech  Bradley G. Klein, Ph.D. and Jeffrey R. Bloomquist, Ph.D.  “Modulation of Cognitive Sequelae of Parkinsonism by Environmental Manganese: Implications for Dementia with Lewy Bodies”

UVA  Isaac G. Onyango, D.V.M., Ph.D.  “Molecular Mechanisms of Neurodegeneration in Alzheimer’s Disease”

UVA  Heidi Scrable, Ph.D.  "Gene Expression Changes in the Aging HPF Axis"

2006

VCU  Dusan Bratko, Dr. Sci.  “Computer Screening of Amyloidogenic Protein Variants”

EVMS  Frank J. Castora, Ph.D.  “Effect of T9861C mtDNA Mutation on Cytochrome Oxidase Structure and Function”

ODU  Sheri R. Colberg, Ph.D., FACSM and colleagues. “The Relationship among Alzheimer’s Disease, Dementia, Diabetes, and Physical Activity Status”

VCU  Jeffrey L. Dupree, Ph.D.  “Understanding the Role of Sulfatide in Maintaining Viable Neurons in Alzheimer’s Disease”

UVA  Paul Freedman, Ph.D., Richard J. Bonnie, LL. B., and Thomas M. Guterbock, Ph.D.  “Voting and Dementia in Virginia Long-Term Care Facilities”

UVA  Ian G. Macara, Ph.D. and Huaye Zhang, Ph.D.  “The Role of Septins in Alzheimer’s Disease”

GMU  Jeanne Sorrell, Ph.D., R.N. and Catherine J. Tompkins, Ph.D.  “Ethics of Respect for Spirituality in Persons Living with Alzheimer’s Disease”
2007

**VCU** Galya R. Abdrakhmanova, M.D., Ph.D. “Novel Epibatidine Analogs as Potential Selective Agonists of 4β2 nAChRs”

**Shenandoah University** Mary A. Corcoran, Ph.D., OTR “Caregiving Styles of Adult Children Who Provide Dementia Care”

**UVA** Erik J. Fernandez, Ph.D. “Designed Peptides as Models for Amyloid-β Toxicity”

**VCU** Richard A. Glennon, Ph.D. “Positive Allosteric Modulators of Cholinergic Receptors”

**UVA** Isaac G. Onyango, D.V.M., Ph.D. “Receptor for Advance Glycation End Products (RAGE) and Lipid Rafts Mediate Amyloid β Neurotoxicity”

2008

**Virginia Tech** Paul R. Carlier, Ph.D. “Hydroxyethylamine isostere triazole-linked BACE1 inhibitors for Alzheimer's disease”

**ODU** Gianluca De Leo, Ph.D. “Improving quality of life and short-term memory loss in patients with Alzheimer’s dementia: Smartphone application for capturing daily life moments”

**UVA** Manoj K. Patel Ph.D. “Cleavage of sodium channel β3 subunit by BACE1 and γ-secretase modulates sodium channel activity in brain neurons”

**Virginia Tech** Karen A. Roberto, Ph.D., Rosemary Blieszner, Ph.D., and Jyoti Savla, Ph.D. “Caring for a spouse with Mild Cognitive Impairment: Daily challenges, marital relations, and physiological indicators”

**UVA** Timothy Salthouse, Ph.D. “Detection of preclinical Alzheimer’s disease”

**VCU** Shijun Zhang, Ph.D. & Tailiang Guo, Ph.D. “Bivalent ligands targeting amyloid-β-peptide and lipid rafts”
2009

VCU  Guo-Huang Fan, Ph.D.  “Potential therapeutic effect of lupeol on Alzheimer’s neuropathology in a transgenic mouse model”

Alzheimer's Association  Ellen Phipps, C.T.R.S., and Barbara Braddock, Ph.D.
Central and Western Virginia  “Home-based cognitive intervention program in dementia”

UVA  Karen M. Rose, Ph.D., R.N., and Ishan C. Williams, Ph.D.  “Family quality of life in dementia”

VCU  H. Tonie Wright, Ph.D.  “Alzheimer’s Aβ amyloid peptide interactions with inflammatory chaperone molecules”

UVA  J. Julius Zhu, Ph.D., and Lei Zhang, Ph.D.  “Mechanisms for Cdk5-mediated synaptic depression”

2010

VCU  Severn B. Churn, Ph.D.  “Neuronal Mechanisms of Trauma-induced Alzheimer’s Disease”


Alzheimer's Association  Patricia Lacey, M.B.A., Sonya Barsness, M.S.G. and Scott Sautter, Ph.D.  “The Impact of Early Alzheimer’s Support and Education Programs on Both Diagnosed Participants and Their Care Partners”

VCU  Kate Lapane, Ph.D.  “Assessment of Factors which Influence Physician Decision-making Regarding Medication Use in Patients with Dementia at the End of Life”

EVMS  Serina A. Neumann, Ph.D. and colleague  “Donepezil’s Effect on Cardiac Function in Patients with Alzheimer’s Disease Through an In Vivo, Non Invasive Measure of Peripheral Neuro-cholinergic Function: Relation to Therapeutic Efficacy”
2011

VCU  Malgorzata Dukat, Ph.D. and Galia R. Abdrakhmanova, M.D., Ph.D. “Small Molecules as Negative Allosteric Modulators of α7 nAChRs”

GMU  Jane M. Flinn, Ph.D., Nathalia Peixoto, Ph.D., and Daniel N. Cox, Ph.D. “Behavioral and Inflammatory Changes in a Mouse Model of Late-Onset Alzheimer’s Disease”

VCU  Aron H. Lichtman, Ph.D. and Laura E. Wise, Ph.D. “Targeting the Endogenous Cannabinoid System to Treat Alzheimer’s Disease”

GMU  Robert H. Lipsky, Ph.D. “Functional Characterization of Promoter Polymorphisms of the Human GRIN2B Glutamate Receptor Gene Associated with Altered Memory Functioning in Older Adults”

2012

UVA  Inchan Kwon, Ph.D. and Erik Fernandez, Ph.D. “Revealing the Effect of Food Dyes on Amyloid-Beta Structure-Cytotoxicity Relationships”

UVA  Carol Manning, Ph.D., ABPP-CN, Steven DeKosky, M.D., and Ishan C. Williams, Ph.D. “Vascular Risk Factors and Cognition in African Americans”

Marymount University  Julie D. Ries, Ph.D., P.T. “Balance Training Program Designed for Individuals with Alzheimer’s Disease: The Effect on Balance and Falls”

VCU  Vladimir Sidorov, Ph.D. “Identification and Characterization of nAChRs Clustered in Cell Membrane Lipid Rafts Using Novel Patching Technique with Chemically Modified Electrodes”

Ferrum College  Megan M. St. Peters, Ph.D. “Who Forgot the Hippocampus? Potential Involvement in the Neural Circuitry of Attentional Control”

VCU  Dong Sun, M.D., Ph.D. “Excessive Inflammation in Aging Population Following Brain Injury Impairs Hippocampal Neurogenesis and Cognitive Function: Implications for Alzheimer’s Disease”
2013

“Assessment of Whether Genetic Risk Factors for Alzheimer’s Disease and Vascular Dementia are Associated with Cognitive Impairment in Parkinson Disease”

ODU Christianne Fowler DNP, RN, GNP-BC and colleagues
“The Impact of an Interdisciplinary Virtual Healthcare Neighborhood on Sleep, Healthcare/Social Support, and Self-Efficacy among Caregivers of Elderly Persons with Dementia”

Liberty University Gary D. Isaacs, Ph.D.
“Remodeling of DNA Methylation Associated with Increased Beta Amyloid Deposition in Mice”

CCAL Karen Love, B.S., Elia Femia, Ph.D., and Sonya Barsness, M.S.G.
“Promoting Change and Action in Person-Centered Care Practices Using a Multi-Media Approach”

Radford University Lisa L. Onega, Ph.D., R.N.
“Bright Light Therapy for Individuals with Dementia”

GMU Maren Strenziok, Ph.D. and Pamela Greenwood, Ph.D.
“The Impact of Auditory Perception Training on Brain Activation and Connectivity in Attention Networks, Reasoning Ability, and Everyday Cognitive Function in Patients with Mild Cognitive Impairment”

VCU Shijun Zhang, Ph.D. and Hyoung-gon Lee, Ph.D.
“Development of Curcumin/Melatonin Hybrids as Neuroprotective Agents for AD”

2014

GMU Robin Couch, PhD
“Neuroprotection and Alzheimer’s Disease”

UVA Roberto Fernandez-Romero MD, MPH, PhD
“The Neuropsychology of Driving Impairments in Early Alzheimer’s Disease”

UVA Erin Pennock Foff, MD, PhD and Benjamin Purow, MD
“Investigating the Role of miR-762 in Mediating Disease in C9ORF72-Based Frontotemporal Degeneration”

Warren Memorial Hospital Jonathan Winter, MD and J. William Kerns, MD

GMU Joseph J. Pancrazio, PhD
“Analysis of Amyloid Beta Effects with Living Neuronal Networks”

Virginia Tech Doris T. Zallen, PhD, Golde Holtzman, PhD, and Kye Kim, MD
“Evaluation of a Web-Based Decision Aid for People Considering a Genetic Testing for Alzheimer’s Risk”

UVA Zhiyi Zuo, PhD
“Environmental Enrichment Reduces Postoperative Cognitive Dysfunction”
2015

EVMS  Frank J. Castora, PhD and Randolph Coleman, PhD
“Biochemical Systems Theory Modeling of Alzheimer's Disease Using Mitochondrial Genes Involved in Amyloid Precursor Protein and Tau Processing”

UVA  Alev Erisir, MD, PhD*
“Ultrastructural Neuropathology in Transgenic Models of Alzheimer's Disease”

ODU  Karen A. Karlowicz, EdD, RN and colleagues
“An Examination of Policy Application and Education Needs of Working Dementia Caregivers”

VCU  MaryPeace McRae, PharmD, PhD and Patricia Slattum, PharmD, PhD*
“Investigating the Relationship between Benzodiazepine Medications and the Development of Blood Brain Barrier Dysfunction as Risk Factors for Alzheimer's Disease”

Virginia Tech  Webster L. Santos, PhD and Gregorio Valdez, PhD*
“Controlling Neuronal Sphingosine-1-Phosphate as Alzheimer’s Disease Therapy”

GMU  Catherine J. Tompkins, PhD and colleagues*
“Individuals with Dementia at Adult Day Health Care Centers: Examining the Effects of Individualized Music on Mood and Agitation”

Virginia Tech  Bin Xu, PhD, David Bevan, PhD and Ling Wu, MD, PhD*
“Molecular Mechanisms of Amylin as a Novel Contributor to Alzheimer’s Disease”

*The awards for this year were enhanced by a $25,000 donation from Mrs. Russell Sullivan of Fredericksburg, in memory of her husband who died of dementia. Sullivan awards are indicated by an asterisk (*).
2016

UVA  Matthew J. Barrett, MD, MSc, Jason Druzgal, MD, PhD, and Scott Sperling, PsyD
“Nucleus Basalis of Meynert Degeneration in Parkinson Disease Cognition”

VCU  Jennifer Inker, MBA, MS, Tracey Gendron, PhD, and J. James Cotter, PhD*
“Use of Antipsychotic Medications by Residents with Dementia in Assisted Living Facilities”

College of William and Mary  Oliver Kerscher, PhD and Munira Basrai, PhD*
“STUbL-dependent clearance of transcriptionally-active, aggregate-prone proteins from the nucleus”

VCU  Rory McQuiston, PhD*
“AAV-Induced Tau Pathophysiology in Interneurons of the Mouse Hippocampus”

UVA  Andrés Norambuena, PhD*
“Amyloid Beta Peptides, Nutrient Signaling and Mitochondria Dysfunction: An Unholy Triad in Alzheimer’s Disease”

Virginia Tech  Jyoti S. Savla, PhD, Karen A. Roberto, PhD, and Rosemary Blieszner, PhD*
“Families in Rural Appalachia Caring for Older Relatives with Dementia”

Christopher Newport University  Lisa S. Webb, PhD and Darlene A. Mitrano, PhD
“Comparative Biochemical and Behavioral Analysis of the 3xTg-AD Mouse Model of Alzheimer’s Disease”

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