About the USF Health Byrd Alzheimer’s Institute

The USF Health Byrd Alzheimer’s Institute was founded in 2002 on the vision of former Florida Speaker of the House, Johnnie Byrd, Jr. whose father suffered from Alzheimer’s disease and for a number of years was known as the Johnnie B. Byrd, Sr. Alzheimer’s Center and Research Institute.

Today the institute is a multi-disciplinary center of excellence at the University of South Florida that provides compassionate family-centered patient care, performs cutting edge research and delivers quality public and professional education. With a state-of-the-art building and a highly qualified team of researchers, doctors, clinicians and educators, the institute is at the forefront of Alzheimer’s research and care.

Mission Statement
The USF Health Byrd Alzheimer’s Institute is dedicated to the prevention, treatment and cure of Alzheimer’s disease and related disorders.

The key activities of the institute include:
• Conducting laboratory research to understand the changes in the brain that cause dementia and to develop approaches for the prevention and treatment of Alzheimer’s disease.
• Conducting clinical trials to test treatments for individuals with all stages of memory loss.
• Providing state-of-the-art diagnostic evaluations and the highest level of patient care to individuals with Alzheimer’s disease and other memory problems.
• Supporting family caregivers by providing educational programs, support groups, counseling and information.
• Providing education and training for healthcare professionals, service providers and students.
Letter from the Chief Executive Officer

The faculty students and staff of the Byrd Alzheimer's Institute are pleased to provide you with this summary of our activities for the 2015-2016 fiscal year. The most momentous event for this time frame was the delivery of the first-of-its-kind Memory Research Suite in June 2016. This mobile research unit has been gestating for the last four years. After multiple iterations of the idea, we held a retreat sponsored by the Albert Foundation in December of 2014 that brought together multiple stakeholders from the pharmaceutical trial companies and non-profits, clinical trial coordinators, representatives of older adult communities, the Alzheimer's Association, physicians, and others experienced with mobile medical facilities. In our searching, we found a number of mobile units for clinical services, patient education and a couple for clinical research, but none focused on clinical trials. At the retreat we debated the advantages and disadvantages of such an approach to clinical trials, and concluded there were no fatal flaws that would doom the effort. With the help of our longtime supporter Nicholas Ferreri, we convinced the Florida legislature to include the funds to build such a unit in an allocation to the institute for the 2015-16 fiscal year. Next we set about designing the spaces in the unit with Jill Smith taking the lead role. A short trip to Columbus, Ohio to select the interior finishes and nine months after starting the design we had the Memory Research Suite in our parking lot. We can use the unit for a variety of activities including memory screening, clinical diagnosis, and caregiver education, but long term we wish the Memory Research Suite to be used exclusively to conduct clinical trials. We are arranging to locate the suite in shopping center parking lots so that older adults can participate in research with minimal travel-related barriers.

The tremendous faculty and staff excelled last year in every aspect of institute activity. Most prominent were increases in basic sciences research. Without adding any faculty, the number of grants funding research increased year over year by 33% to 2.3 per faculty member. Moreover, the amount of research funding increased by 50% to $5.4 million (does not include cardiovascular faculty). This is the highest amount of research funding since the institute began by a considerable margin! And, so far for 2016-17 there are several new large grants that are likely to make the present year greater still. Clinical research also continued to increase, with a 20% year over year increase in clinical research expenditures and four new studies awarded to the team.

Clinical services continued to increase with 25% more patient visits in 2015-16 reaching a new high of 7,200 visits. Much of this increase was driven by a doubling of geriatric clinic visits by internal medicine. In addition, the number of PET scan visits was 15% greater this fiscal year and driving evaluations increased by 70% in our occupational therapy service line.

Educational programs continued their expansion with Community-Based Memory Screening adding several new sites and reaching the 3,500 mark for entries into the Memory Care Registry. We are switching the caregiver seminar model from one supported by vendors leasing tables at our events to one where caregivers pay a moderate sum for tuition for the event. This model, at least at this early stage, appears to be a more sustainable source of support for these valuable events helping our community partners.

Finally, it is with some disappointment that I share with you a reorganization of the institute. The Byrd Alzheimer's Institute is destined on January 1, 2017 to become part of a larger Neurosciences Institute at USF. As part of this reorganization Dr. Harry van Loveren, chairperson of neurosurgery will become the next CEO of the Byrd Alzheimer's Institute. Please join me in wishing Harry the best of luck in this venture and we sincerely hope he sustains the growth trajectory we have maintained for the last seven years.

Dave Morgan, PhD
CEO and Executive Director
Faculty Appointed to the USF Health Byrd Alzheimer’s Institute

Jessica L. Banko, Ph.D., M.S.
Associate Professor of Molecular Medicine
College of Medicine

Deborah Burke, M.D.
Assistant Professor of Neurology
College of Medicine

Chuanhai Cao, Ph.D.
Associate Professor of Pharmaceutical Sciences
College of Pharmacy

Hemant Chheda, M.D.
Assistant Professor of Radiology
College of Medicine

Jasmine Cutler, Pharm.D., CPH
Clinical Pharmacist
College of Pharmacy

Marilin Espino-Mayá, M.D.
Assistant Professor of Radiology
College of Medicine

Chad Dickey, Ph.D.
Associate Professor of Molecular Medicine
College of Medicine

Max Feldman, M.D.
Assistant Professor
Division of General Internal Medicine

Joshua Gamsby, Ph.D.
Research Associate, Byrd Institute
College of Medicine

Marcia Gordon, Ph.D.
Professor of Molecular Pharmacology & Physiology
College of Medicine

Lucy Guerra, M.D.
Associate Professor
Division of General Internal Medicine

Jaya Padmanabhan, Ph.D.
Assistant Professor of Molecular Medicine
College of Medicine

Danielle Gulick, Ph.D.
Assistant Professor of Molecular Medicine
College of Medicine

Robert Hauser, M.D., M.B.A.
Professor of Neurology
College of Medicine

Angela Hill, Pharm.D., BCMP
Professor & Chair, Pharmacy Practice
College of Pharmacy

Crystal Jacovino, D.O.
Assistant Professor
Division of General Internal Medicine

David Kang, Ph.D.
Associate Professor of Molecular Medicine
College of Medicine

Umesh Jinwal, Ph.D.
Associate Professor of Pharmaceutical Sciences
College of Pharmacy

Daniel Lee, Ph.D.
Assistant Professor of Pharmaceutical Sciences
College of Pharmacy

David G. Morgan, Ph.D.
Distinguished Professor of Molecular Pharmacology & Physiology
College of Medicine

Peter Mouton, Ph.D.
Professor of Pathology & Cell Biology
College of Medicine

Hugo Narvarte, M.D.
Assistant Professor
Division of General Internal Medicine
Kevin Nash, Ph.D.
Assistant Professor of Molecular Pharmacology & Physiology
College of Medicine

Eileen Poiley, M.S.
Instructor of Suncoast Gerontology
College of Medicine

Balaibail Ashok Raj, M.D.
Professor of Neurology
College of Medicine

Kristin Robinson, Pharm.D.
Clinical Pharmacist
College of Pharmacy

Maj-Linda Selenica, Ph.D.
Assistant Professor of Pharmaceutical Sciences
College of Pharmacy

Associate Members

Norma Alcantar, Ph.D.
Professor
Chemical and Biomedical Engineering

Ross Andel, Ph.D.
Associate Professor of School of Aging Studies
College of Behavioral & Community Sciences

Paula Bickford, Ph.D.
Professor, Center of Excellence for Aging & Brain Repair
College of Medicine

Cesar Borlongan, MA, Ph.D.
Professor, Center of Excellence for Aging & Brain Repair
College of Medicine

Sharon Aroda Shah, M.D.
Assistant Professor
Division of General Internal Medicine

Amanda G. Smith, M.D.
Associate Professor of Psychiatry & Behavioral Neurosciences
College of Medicine

Jill Smith, M.S.
Instructor
School of Aging Studies

Robert Walker, M.D.
Associate Professor
Division of General Internal Medicine

Edwin J. Weeber, Ph.D.
Associate Professor of Molecular Pharmacology & Physiology
College of Medicine

Gabriel De Erausquin, M.D., Ph.D., M.Sc.
Endowed Chair and Professor, Psychiatry and Behavioral Neurosciences
College of Medicine

Jerri Edwards, Ph.D.
Associate Professor of School of Aging Studies
College of Behavioral & Community Sciences

Kathryn Hyer, Ph.D. MPP
Professor and Director, Florida Policy Exchange Center for Aging
College of Behavioral & Community Sciences

Jennifer Lister, Ph.D., CCC-A, FAAA
Associate Professor College of Behavioral & Community Sciences

Meredeth Rowe, RN, Ph.D., FGSA, FAAN
Professor and Endowed Chair
College of Nursing
Brent Small, Ph.D.
Professor of School of Aging Studies
*College of Behavioral & Community Sciences*

Naoki Tajiri, P.T., Ph.D.
Assistant Professor, Center of Excellence for Aging and Brain Repair
*College of Medicine*

Jun Tan, Ph.D., M.D.
Endowed Chair and Professor, Psychiatry and Behavioral Neurosciences
*College of Medicine*

Vladimir Uversky, Ph.D., DSc
Associate Professor of Molecular Medicine
*College of Medicine*
# USF Health Byrd Alzheimer's Institute Statistics

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<tbody>
<tr>
<td>Suncoast Alzheimer's Center new patient visits</td>
<td>529</td>
<td>283</td>
<td>336</td>
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<tr>
<td>Suncoast Alzheimer's Center Follow-up visits</td>
<td>1,489</td>
<td>1,242</td>
<td>1,174</td>
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<tr>
<td>C.A.R.E. visits</td>
<td>262</td>
<td>204</td>
<td>81</td>
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<tr>
<td>Imaging visits – diagnostic</td>
<td>274</td>
<td>335</td>
<td>362</td>
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<tr>
<td>Imaging visits – research</td>
<td>18</td>
<td>52</td>
<td>81</td>
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<tr>
<td>Occupational Therapy visits</td>
<td>203</td>
<td>377</td>
<td>421</td>
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<tr>
<td>Driver Safety Evaluations</td>
<td>44</td>
<td>74</td>
<td>126</td>
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<tr>
<td>Clinical Trial visits (non-imaging)</td>
<td>349</td>
<td>526</td>
<td>514</td>
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<tr>
<td>Movement Disorders Clinic visits</td>
<td>2,450</td>
<td>2,100</td>
<td>2,856</td>
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<tr>
<td>Geriatric Medicine visits</td>
<td>518</td>
<td>647</td>
<td>1,323</td>
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<tr>
<td><strong>Total patient visits</strong></td>
<td><strong>6,136</strong></td>
<td><strong>5,840</strong></td>
<td><strong>7,274</strong></td>
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</table>

| STUDENTS                                    |           |           |           |
| Medical degree-seeking                      | 3         | 5         | 15        |
| Graduate degree-seeking                     | 35        | 25        | 52        |
| Post-doctoral                               | 15        | 14        | 29        |
| Undergraduate                               | 97        | 114       | 113       |
| High School                                 | 13        | 11        | 10        |
| **Total Trainees**                          | **163**   | **169**   | **219**   |

| FACULTY AND STAFF                           |           |           |           |
| Clinical Faculty                            | 12        | 16        | 14        |
| Clinical Staff                              | 17        | 15        | 23        |
| Laboratory Research Faculty                 | 14        | 14        | 14        |
| Laboratory Research Staff                   | 14        | 16        | 15        |
| Education Staff                             | 1         | 2         | 2         |
| Administrative Staff                         | 6         | 6         | 6         |
| Plant Operations/Maintenance Staff          | 6         | 5         | 5         |
| Part-time/temporary Staff                   | 2         | 3         | 2         |
| **Total Employees**                         | **71**    | **77**    | **78**    |

| RESEARCH                                    |           |           |           |
| Active Research Grants                       | 26        | 24        | 32        |
| Active Clinical Trials                       | 15        | 14        | 16        |
| Clinical Trial Subject Visits                | 349       | 526       | 565       |

| ENDOWMENT                                   |           |           |           |
| Principal Value                             | $5,478,384| $5,841,657| $7,009,840|
| Market Value                                | $7,643,015| $7,886,448| $8,614,404|
2016 Financial Overview

Funding by Source

![Pie chart showing funding distribution](chart1.png)

Expenditures by Activity

![Pie chart showing expenditure distribution](chart2.png)
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<tbody>
<tr>
<td>Basic Research Grants &amp; Contracts</td>
<td>$2,365</td>
<td>$3,468</td>
<td>$5,454</td>
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<tr>
<td>Clinical Research Grants &amp; Contracts</td>
<td>$533</td>
<td>$727</td>
<td>$917</td>
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<tr>
<td>Research Initiative Accounts</td>
<td>$374</td>
<td>$534</td>
<td>$184</td>
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<td>USF Foundation</td>
<td>$478</td>
<td>$450</td>
<td>$646</td>
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<td>State E&amp;G</td>
<td>$3,690</td>
<td>$4,454</td>
<td>$4,971</td>
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<tr>
<td>Patient Services Revenue</td>
<td>$671</td>
<td>$867</td>
<td>$878</td>
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<tr>
<td>Educational Business Activity</td>
<td>$43</td>
<td>$71</td>
<td>$33</td>
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<td>Institute Reserves</td>
<td>$404</td>
<td>$170</td>
<td>$183</td>
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<td><strong>TOTAL INSTITUTE FUNDING</strong></td>
<td><strong>$8,558</strong></td>
<td><strong>$10,741</strong></td>
<td><strong>$13,266</strong></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$4,016</strong></td>
<td><strong>$5,904</strong></td>
<td><strong>$8,175</strong></td>
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<td>RESEARCH EXPENDITURES</td>
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<tr>
<td>Federal Basic Research</td>
<td>$1,297</td>
<td>$2,044</td>
<td>$1,952</td>
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<tr>
<td>Non-Federal Basic Research</td>
<td>$1,068</td>
<td>$1,424</td>
<td>$3,502</td>
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<tr>
<td>Clinical Research</td>
<td>$553</td>
<td>$832</td>
<td>$1,004</td>
</tr>
<tr>
<td>Institute Research &amp; Development</td>
<td>$1,098</td>
<td>$1,604</td>
<td>$1,717</td>
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<tr>
<td>CLINICAL SERVICES EXPENDITURES</td>
<td>$1,131</td>
<td>$1,320</td>
<td>$1,307</td>
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<tr>
<td>EDUCATIONAL EXPENDITURES</td>
<td>$1,265</td>
<td>$1,347</td>
<td>$1,483</td>
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<tr>
<td>Faculty E&amp;G</td>
<td>$1,137</td>
<td>$1,182</td>
<td>$1,329</td>
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<tr>
<td>Caregiving and Professional Education</td>
<td>$128</td>
<td>$165</td>
<td>$154</td>
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<tr>
<td>DEVELOPMENT EXPENDITURES</td>
<td>$101</td>
<td>$10</td>
<td>$120</td>
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<tr>
<td>EXTERNAL AFFAIRS EXPENDITURES</td>
<td>$164</td>
<td>$213</td>
<td>$184</td>
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<tr>
<td>BUSINESS OPERATIONS EXPENDITURES</td>
<td>$421</td>
<td>$373</td>
<td>$386</td>
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<tr>
<td>Finance and Accounting</td>
<td>$76</td>
<td>$77</td>
<td>$88</td>
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<tr>
<td>USF Health Governance</td>
<td>$59</td>
<td>$0</td>
<td>$0</td>
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<tr>
<td>Executive Administration</td>
<td>$286</td>
<td>$296</td>
<td>$298</td>
</tr>
<tr>
<td>FACILITY OPERATION &amp; MAINTENANCE</td>
<td>$1,460</td>
<td>$1,574</td>
<td>$1,611</td>
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<tr>
<td><strong>TOTAL INSTITUTE EXPENDITURES</strong></td>
<td><strong>$8,558</strong></td>
<td><strong>$10,741</strong></td>
<td><strong>$13,266</strong></td>
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</tbody>
</table>
Research

Clinical Research

We recognize the critical need to research new treatment options as well as better diagnostic tools. Currently available medications cannot stop Alzheimer’s disease, but may help prevent some symptoms from getting worse. Ongoing research is aiming to halt or slow the progression of Alzheimer’s disease itself and also identify better ways to diagnose and treat memory problems earlier in the course of the illness. Our center is involved in a number of research studies for various stages of Alzheimer’s disease, including those who don’t even have symptoms yet. Several of these studies investigate potential treatments that target the plaques and tangles in the brain. Some studies involve pills, while others use intravenous infusions. Other trials study the effect of noninvasive treatments and nutritional supplements on Alzheimer’s disease. Several of these trials are part of the Alzheimer’s Disease Therapeutic Research Institute (ATRI) or the Alzheimer’s Disease Neuroimaging Initiative (ADNI), both national clinical research consortia of leading Alzheimer’s research centers.

We also recognize the need for better diagnostic tools. Amyloid-based PET imaging has become increasingly important in our field and we are at the forefront of research in this area. Although FDA-approved, amyloid imaging is not currently covered by insurance. This procedure, an important addition to diagnostic evaluations, remains too expensive for most patients to afford. In the upcoming fiscal year, we are excited to be participating in the national Medicare initiative, the IDEAS (Imaging Dementia—Evidence for Amyloid Screening) program, which will allow access to these scans through Medicare and secondary insurances, and aims to track the health outcomes of patients who have amyloid PET scanning as part of their diagnostic process for memory loss.

The 2015/2016 fiscal year was productive and we have continued to see growth in our clinical research practice including activity in 16 clinical trials. We continued participation in trials to target beta amyloid in mild to moderate Alzheimer’s disease and mild cognitive impairment. These trials included classes of drugs including monoclonal antibodies, delivered intravenously, and BACE inhibitors, which are oral medications. We also continued investigating a treatment for the tau protein that causes tangles. We actively participated in a clinical trial studying PET scan imaging agents that are in development, including one to detect and measure this tau protein. And lastly, we continue to be an active site in the international A4 prevention trial funded by Eli Lilly and the National Institutes of Health (NIH) for people with normal memory who are over the age of 65 and may be at risk for developing Alzheimer’s disease due to positive brain amyloid.

Our greatest achievement was the production and delivery of our mobile Memory Research Suite in May 2016. The suite features over 400-square-feet of clinical research space including two consultation rooms, an examination room, a phlebotomy suite, an ADA-compliant restroom, and a reception area. This mobile unit is the first-of-its-kind anywhere in the country to bring all the procedures and activities involved in a clinical trial to people in the community rather than having to make them come to us. We already have plans to take the mobile unit to The Villages, St Petersburg, Sun City Center, and Sarasota. Institute personnel presented a well-received research poster on the suite’s design at the Clinical Trials in Alzheimer’s Disease conference in Barcelona, Spain in November 2015. We currently have two
pharmaceutical clinical trials arranged to be offered on the mobile research suite and look forward to offering additional programs in the next fiscal year.

We continue to gain momentum as we enter FY 2016/2017, with contracts lined up for multiple new trials for new therapies, including another landmark prevention trial for people over the age of 60 and at risk for developing Alzheimer's disease.

Clinical Research Statistics

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<thead>
<tr>
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<tbody>
<tr>
<td>New studies awarded</td>
<td>6</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Total active studies</td>
<td>15</td>
<td>14</td>
<td>16</td>
</tr>
<tr>
<td>Enrolling studies</td>
<td>10</td>
<td>10</td>
<td>13</td>
</tr>
<tr>
<td>Total subjects enrolled</td>
<td>108</td>
<td>162</td>
<td>226</td>
</tr>
<tr>
<td>Total Subject visits</td>
<td>367</td>
<td>578</td>
<td>595</td>
</tr>
<tr>
<td>- Imaging research visits</td>
<td>18</td>
<td>52</td>
<td>81</td>
</tr>
<tr>
<td>Average enrollment per trial</td>
<td>9</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Average enrollment fulfillment (# screened/# contracted)</td>
<td>69%</td>
<td>76%</td>
<td>97%</td>
</tr>
<tr>
<td>Average randomized success (# randomized/#screened)</td>
<td>82%</td>
<td>72%</td>
<td>63%</td>
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<tr>
<td>*Research study income (direct costs)</td>
<td>$533,152</td>
<td>$1,255,773</td>
<td>$982,321</td>
</tr>
<tr>
<td>*Research study expenses (direct costs)</td>
<td>$513,304</td>
<td>$726,687</td>
<td>$917,252</td>
</tr>
<tr>
<td>Total Clinical Research expenses</td>
<td>$553,613</td>
<td>$832,096</td>
<td>$1,004,000</td>
</tr>
</tbody>
</table>

*Research study income and research study expenses includes both industry-sponsored clinical trial contracts and federal and non-federal clinical research awards.
**Studies active during fiscal year 2015/2016 listed by study sponsor**

1. **ATRI**: Alzheimer's Disease Neuroimaging Initiative (ADNI-2). A Nationwide Study to Collect Information About Individuals Using MRI, PET Scan, Spinal Fluid, Cognitive Status, Blood Biomarkers Over Multiple Years to Form a Database of Information on the Course of Aging and Alzheimer's Disease (ADC-039) [PI: SMITH]
2. **ATRI**: Anti Amyloid Treatment in Asymptomatic Alzheimer’s Disease (A4 Study) (H8A-MC-LZAZ/A4) [PI: SMITH]
3. **ATRI**: A Longitudinal Evaluation of Amyloid Risk and Neurodegeneration – the LEARN Study (ADC-051) [PI: SMITH]
4. **ATRI**: A Phase 2a Multi-Center Study of 18F-FDG PET, Safety, and Tolerability of AZD0530 in Mild Alzheimer’s Disease (ADC-049) [PI: SMITH]
6. **Biogen**: A Phase 3 Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Aducanumab (BIIB037) in Subjects with Early Alzheimer’s Disease (221AD301) [PI: SMITH]
7. **Eisai**: A Placebo-Controlled, Double-blind, Parallel-group, Bayesian Adaptive Randomized Design and Dose Regimen-finding Study to Evaluate Safety, Tolerability and Efficacy of BAN2401 in Subjects with Early Alzheimer’s Disease (BAN2401-000-201) [PI: SMITH]
8. **Eli Lilly**: Continued Efficacy and Safety Monitoring of Solanezumab, an Anti-Amyloid Beta Antibody in Patients with Alzheimer’s Disease (H8A-MC-LZAO) [PI: RAJ]
9. **Eli Lilly**: Effect of Passive Immunization on the Progression of Mild Alzheimer's Disease: Solanezumab (LY2062430) Versus Placebo (H8A-MC-LZAX) [PI: RAJ]
10. **Florida Department of Health**: Identification of Novel AD Genes and Disease Associated Pathways through FPADS: a Florida Presenile Alzheimer’s Disease Subjects Registry [PI: RAJ]
11. **Florida Department of Health**: Florida Consortium for African American Alzheimer’s Disease Studies (FCA3DS) [PI: RAJ]
12. **Merck**: A Randomized, Placebo Controlled, Parallel-Group, Double Blind Efficacy and Safety Trial of MK-8931 in Subjects with Mild to Moderate Alzheimer’s Disease. (Protocol No. MK-8931-017) [PI: SMITH]
13. **Merck**: A Phase III, Randomized, Placebo-Controlled, Parallel-Group, Double-Blind Clinical Trial to Study the Efficacy and Safety of MK-8931 (SCH 900931) in Subjects with Amnestic Mild Cognitive Impairment Due to Alzheimer’s Disease (Prodromal AD). (MK-8931-019) [PI: SMITH]
14. **Roche**: A Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Efficacy and Safety Study of Crenezumab in Patients with Prodromal to Mild Alzheimer’s Disease. (BN29552) [PI: SMITH]
15. **TauRx**: Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, 18-Month Safety and Efficacy Study of Leuco-methylthioninium bis(hydromethanesulfonate) in Subjects with Mild Alzheimer’s Disease (TRx-237-005) [PI: RAJ]
16. **USF and Leo and Anne Albert Charitable Trust**: A Randomized, Double-Blind, Placebo-Controlled, 6 Month Cross-Over Study to Evaluate the Efficacy of Coconut Oil (Fuel for Thought™) Treatment for Subjects with Mild to Moderate Alzheimer’s Disease [PI: SMITH]
Basic and Translational Research

The Discovery Research Laboratories within the USF Health Byrd Alzheimer’s Institute are engaged in basic and translational research aimed at understanding the patho-physiology of Alzheimer’s disease with a focus on developing new therapeutics to prevent, treat and cure the disease. Complimentary programs in other neurodegenerative diseases, neurodevelopmental disorders and bioengineering have also emerged within several laboratories in recent years. These programs diversify the institute’s sponsored research funding portfolio, and more importantly, expand the breadth and impact of the institute’s scholarly activities and contributions.

In 2016, faculty in the Discovery Research Laboratories were engaged in 32 sponsored translational research projects. Notably, nine of these projects were federally funded programs via the National Institutes of Health and the Veterans Health Administration merit program. Private foundations and industry remain crucial supporters of the overall research mission, funding nearly three quarters of the overall Discovery Research Laboratory portfolio.

Researchers at the institute are advancing the frontiers of medicine and science, and work with the USF Technology Transfer Office to ready new inventions for the patenting process and potential licensing opportunities. During 2016, seven invention disclosures were submitted to the US Patent & Trademark Office, 14 patent applications were filed and eight patents were issued. Institute researchers have shared their research findings with the academic community at 23 scientific conferences and through 51 peer-reviewed journal articles.

### Basic and Translational Sponsored Research Statistics

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<tr>
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<tbody>
<tr>
<td>Active federal grants</td>
<td>8</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Active non-federal grants</td>
<td>12</td>
<td>14</td>
<td>23</td>
</tr>
<tr>
<td><strong>Total active grants</strong></td>
<td><strong>20</strong></td>
<td><strong>24</strong></td>
<td><strong>32</strong></td>
</tr>
<tr>
<td>Research faculty/PIs</td>
<td>14</td>
<td>14</td>
<td>14</td>
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<tr>
<td>Average sponsored activity per research faculty</td>
<td>1.4</td>
<td>1.7</td>
<td>2.3</td>
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<tr>
<td>Grant awards value (annualized)</td>
<td>$2,294,429</td>
<td>$4,676,946</td>
<td>$4,555,207</td>
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<tr>
<td>Grant expenditures</td>
<td>$2,365,079</td>
<td>$3,468,142</td>
<td>$5,454,226</td>
</tr>
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</table>
Grants active during fiscal year 2016 listed by sponsor

Federal Sponsors

1. National Institute of Aging “ApoE effects on neuron signaling and function via ApoER2” [PI: Weeber]
3. National Institute of Mental Health “Modeling stress-related psychopathology through FKBP5 manipulation” [PI: Dickey]
4. National Institute of Neurological Disease and Stroke “The Hsp90 cochaperone FKBP51 regulates tau structure and function” [PI: Dickey]
5. National Institute of Neurological Disease and Stroke “Immunotherapy against tauopathy in a transgenic mouse model” [PI: Morgan]
6. National Eye Institute “Grp-94 selective inhibitors to treat hereditary glaucoma” [PI: Dickey]
7. Veterans Administration Medical Center - James A. Haley “HSP70/DNAJ interface as a drug target for Alzheimer's disease and TBI” [PI: Dickey]
8. Veterans Administration Medical Center - James A. Haley “UPR as a neuronal death mediator in Alzheimer's disease” [PI: Dickey]
9. Veterans Administration Medical Center - James A. Haley “Molecular intermediates and regulation of the Abeta-Tau pathogenic cascade” [PI: Kang]

Non-Federal Sponsors

1. Agilis Biotherapeutics “Frataxin expression in the wild type mouse brain” [PI: Weeber]
2. Agilis Biotherapeutics “UBE3a replacement for Angelman syndrome” [PI: Weeber]
3. Agilis Biotherapeutics “Reelin intervention for cognitive disorders” [PI: Weeber]
5. Alzheimer's Association “Impact of Arginase-1 Deficiency on Tau and Amyloid Pathogenesis” [PI: Lee]
6. Alzheimer's Association “T tauopathy and circadian dysfunction” [PI: Gamsby]
7. Alzheimer's Association “Molecular therapeutics to mitigate inflammation, tauopathy and degeneration” [PI: Gordon]
8. American Federation for Aging Research “Exploring the Links Between Aging, Proline Cis/Trans Isomerization, Proteotoxicity, and Neurodegeneration” [PI: Dickey]
9. Alzheimer's Research UK “Identification of Agonists/PAMs of the Fractalkine Receptor (CX3CR1) to treat Degenerative Disease” [PI: Morgan]
10. BrightFocus Foundation “Investigating the Role of Cdc37 Co-Chaperone in Alzheimer's Disease Pathogenesis” [PI: Jinwal]
12. Coins for Alzheimer's Research Trust “Oligomeric AB nanoparticle sensitized dendritic cells as a therapeutic vaccine against AD [PI: Cao]
13. **CurePSP** “Impact of Arginase1 overexpression” [PI: Lee]
14. **Epigen Bioscience** “EPGN644 as a potential new Alzheimer's disease therapy” [PI: Morgan]
15. **Florida Department of Health** “Targeting the slingshot-cofilin pathway in AD” [PI: Kang]
16. **Florida Department of Health** “Modulation of arginine metabolism and polyamines to mitigate Alzheimer's disease pathology” [PI: Lee]
17. **Foundation for Angelman Syndrome Therapeutics** “Identification and Characterization of Novel Therapeutics for Angelman Syndrome” [PI: Weeber]
18. **Foundation for Angelman Syndrome Therapeutics** “Development and characterization of a pig model of Angelman syndrome” [PI: Weeber]
20. **Michael J Fox Foundation for Parkinson’s** “Brain Permeable Non-Immunosuppressive Dual-Acting Inhibitors of Two Disease Modifying Targets FKBP12/52” [PI: Jinwal]
21. **Michael J Fox Foundation for Parkinson’s** “Validation of SAT1 and polyamine in modifying alpha synuclein pathology” [PI: Lee]
22. **Rhodes Technologies** “THC: The Role in AD Treatment” [PI: Cao]
23. **The Florida High Tech Corridor** Matching Funds for projects funded by Agilis Biotherapeutics [PI: Weeber]
Alzheimer’s Clinical Center

The Alzheimer’s Clinical Center consists of the first and second floor outpatient clinics of the Byrd Institute, including the Suncoast Alzheimer’s Center and the Center for Memory C.A.R.E. It is directed by Amanda G. Smith, MD.

In 2015/2016, the clinics continued to serve both new and established patients from throughout Florida and across the United States. Despite the retirement of our clinical social worker and the reduction of Dr. Ashok Raj’s effort to part time in advance of his retirement on June 30th, we had an increase in new patient visits and a stable number of follow ups.

Center for Memory C.A.R.E. (Clinical Assessment, Research and Education)

Within the Center for Memory C.A.R.E., we continued to serve those in our multidisciplinary diagnostic clinic on Monday and Tuesday mornings. Each patient typically sees a psychiatrist, geriatrician, psychometrist for cognitive testing, and pharmacist. This year, 81 CARE patients were treated which resulted in 243 billable encounters.

Occupational therapy (OT) services have continued to grow. OT services offered at the Byrd include assessment and treatment for self-care skills, cognitive skills development, fall prevention, driving evaluation and training, and therapeutic exercise programs. A total of 421 OT visits and 78 clinic-based driver safety assessments were performed.

Internal medicine services within the Center for Memory C.A.R.E. have continued to grow for our geriatric patients and their caregivers. Over 1300 patients were seen this fiscal year, more than double that of the prior year. We continue to receive wonderful feedback from our patient/caregiver population about the convenience of receiving their care in one place, and the coordination of care among the different medical disciplines in the building.

In May 2016, our second PET technologist resigned due to relocating out of state. In June, we successfully hired a replacement to manage the additional volume of PET scans.

Eric Pfeiffer PET Imaging Center

The Pfeiffer PET Imaging Center continues to increase activity in both oncology and neurology services. Again this past year, we have experienced a steady and upward increase with physician referrals, not only with the USF Physician’s Group, but with our local community as well.

With our commitment in providing the best patient care possible and specialized individual attention, we continue to receive positive and supportive feedback, from both our patients and referring physicians alike. Additionally, we continue to exhibit significant growth within our clinical research PET services and subject enrollment. Over the last year, we have added several new PET research protocols, with anticipation of several others, in near future. We are also one of several exclusive sites in the country performing Tau brain PET imaging. We recently completed the registration process and were selected as a participating site, for the Imaging Dementia-Evidence for Amyloid Scanning (IDEAS) study, created and funded by the Centers for Medicare and Medicaid Services (CMS) and have initiated enrolling subjects. Although we also
provide Amyloid brain PET imaging services to those who can afford to self-pay, we are optimistic and anticipate that once the IDEAS study reaches completion, that there will be sufficient evidence-based data to support reimbursement for this service in the future.

Alzheimer’s Clinical Center Statistics

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<td>New patient visits to Suncoast Alzheimer’s Center</td>
<td>529</td>
<td>283</td>
<td>336</td>
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<tr>
<td>Follow-up visits Suncoast Alzheimer’s Center</td>
<td>1,489</td>
<td>1,242</td>
<td>1,174</td>
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<tr>
<td>C.A.R.E. visits</td>
<td>262</td>
<td>204</td>
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<td>Imaging visits – diagnostic</td>
<td>274</td>
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<tr>
<td>Imaging visits – research</td>
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<tr>
<td>Occupational Therapy visits</td>
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<td>Driver Skill Evaluation visits</td>
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<td>Clinical trial visits</td>
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<td><strong>3086</strong></td>
<td><strong>3095</strong></td>
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</table>

*Services billed represents only those charges associated with Suncoast Alzheimer’s Center clinical activity as this patient services revenue is credited to the USF Health Byrd Alzheimer’s Institute. The USF Memory Disorders Clinic patient services revenue is credited to the Department of Psychiatry and Behavioral Medicine within the College of Medicine.
Education

Education and training is a vital part of the institute and reaches health care professionals, family caregivers, students and the community. The educational activities support the mission of the institute—to disseminate information about Alzheimer’s and memory loss; to increase the skill level and aptitude needed to effectively care for individuals with Alzheimer’s; to support family caregivers and to educate the next generation of clinicians, researchers and educators.

Graduate Education and Research Training

Medical Students and Fellows
Most faculty in the institute also have faculty appointments in traditional departments. Within those departments they have teaching responsibilities for medical students, graduate students, residents and in some cases undergraduate students. Major roles are played within the medical curriculum instructing students in neuroscience, biochemistry, molecular biology, pharmacology and physiology.

The third-year curriculum for medical students at USF Morsani College of Medicine includes a 12-week primary care and special populations rotation and an eight-week neuropsychiatry rotation for which students may select the institute as their mentoring clinic. The Byrd C.A.R.E. Center physicians acted as preceptors for 15 third-year medical students in academic year 2016. Graduate Medical Education at the Byrd Institute attracted 12 fellows in internal medicine and two in geriatric psychiatry.

Health Provider Graduate Students
Managing Alzheimer’s disease and the needs of those who provide caregiving at home requires a multidisciplinary team of health professionals. Increasingly, students from the Colleges of Public Health, Nursing, Pharmacy and other Allied Health programs receive training at the Byrd Institute through participation in internships, courses and other direct engagement with our faculty and the population we serve. In 2016, six nursing students, 12 pharmacy students and three public health students benefited from their experience learning in the clinics and laboratories of the Byrd Institute.

Biomedical Sciences Graduate Students
Although not an academic program home, the institute participates in the training of post-baccalaureate biomedical sciences degree-seeking students through the Discovery Research Laboratories. Institute faculty participate in courses for both Ph.D. and M.S. students covering topics in neuroscience, pharmacology, physiology, experimental design, molecular biology and biochemistry. Graduate students from the College of Medicine and the School of Aging Studies conduct dissertation research at the institute and participate in a variety of academic enrichment programs such as the institute seminar series, journal club and research symposia. The Discovery Research Laboratories have 38 continuing graduate students and approved two individuals to receive their Ph.D. degree in academic year 2016.

Post-doctoral Training
Clinical and laboratory research fellows choose to continue their specialized training in preparation for independence at the institute because the environment is innovative, integrated and collaborative. Seventeen post-doctoral fellows trained under institute faculty during academic year 2016.
**Undergraduate and High School Student Training**

Although the College of Medicine has few courses instructing undergraduates, the institute trains a number of undergraduate students in biomedical research skills. Students in the Honors program develop thesis projects in institute laboratories under the guidance of principal investigators. Other students obtain independent study credit or simply volunteer to gain research experience. Still others work as part-time research technicians or complete their degree internships with our professional education and social support staff. Enterprising high school students also find their way into research laboratories to gain experience and work on laboratory skills and science fair projects. In 2016, 113 undergraduate students and 10 high school students participated in research at the Byrd Institute.

**Health Care Professionals**

Providing continuing education to health care providers is a core mission of the Institute. The clinicians and caregiving experts at the institute have developed a variety of educational training programs designed to provide the knowledge and skills to care for individuals with Alzheimer's and related dementias.

Our professional education is designed to meet the educational needs of a diverse audience of healthcare professionals including physicians, nurse practitioners, nurses, certified nursing assistants, social workers, nursing home and assisted living facility administrators, care managers, professional guardians, mental health counselors, pastoral care nurses, psychologists, occupational therapists, registered dietitians, ombudsmen, memory care specialists and gerontologists. The professionals trained represent diverse health care settings including assisted living facilities, nursing homes, home health care, primary care practice, hospitals, hospice, adult day care, rehabilitation facilities and private practice.

The institute conducts continuing education workshops, presents at community-wide conferences and offers customized training for professional organizations and health care staff at assisted living facilities, home health care agencies and hospitals.

We are approved by the following organizations as an accredited provider of continuing education in Florida:
- Florida Board of Nursing (for nurses and certified nursing assistants)
- Florida Board of Clinical Social Work, Marriage and Family Therapy and Mental Health Counseling
- Florida Board of Nursing Home Administrators
- Florida Council of Dietetics and Nutrition
- Florida Board of Occupational Therapy

The institute also provides required continuing education for the following specialties:
- Assisted Living Administrators
- Care Managers
- Professional Guardians
Ten education programs were presented reaching more than 600 health care providers. We developed and conducted training for the staff at assisted living facilities in Tampa, Largo, Clearwater, and Sarasota, FL; presented at the Tampa Bay Professional Guardians Association, Faith Community Nurses at St. Anthony’s Hospital, Hillsborough County Aging Services annual conference, annual Alzheimer’s Roundtable in Polk County, Florida Department of Adult Protective Services to name a few. Our monthly tours and lectures also attract health care providers throughout Tampa Bay who want to learn more about Alzheimer’s diagnosis and research.

Presentations were given at national and statewide conferences for professional audiences including Stetson Law Elder Law Center’s 2015 Special Need Trusts Conference and the Florida Assisted Living Facilities Association statewide conference.

**Geriatric Institute**

The institute conducts an annual three-day continuing education conference in June for long-term care administrators, nurses, social workers, guardians, mental health counselors, care managers and others in the field of aging. Now in its 18th year, this conference is well recognized in the aging network and attendee evaluations consistently rate the seminar excellent for content and speakers. The conference focuses on Alzheimer’s disease and other dementias and also includes other practitioners from USF Health on topics pertaining to critical issues in geriatrics. More than 150 health care providers and vendors attend the conference and the geographic reach of the conference has expanded from primarily the Tampa Bay area to statewide. The conference has been an excellent source of referrals and networking for future program collaboration at the institute.

**Half-Day workshops**

Two half-day continuing education workshops were conducted at the institute reaching 80 health care providers. This year’s programs included topics on the physical environment and Alzheimer’s, managing behaviors, driving assessment, Alzheimer’s treatment and medication management.

**Professional Consultation**

The Education Division provided consultation with Senior Lifestyle Assisted Living Corporate office to assist with the development of a program to better meet the needs of the resident’s family members. A comprehensive assessment was designed and administered and the results will be used to develop education and support programs for the families of their residents.
Family Caregivers

Caregiver Education

Providing education and support for caregivers is a priority of the institute and several educational programs were conducted this year to reach family caregivers.

Support Groups

A third monthly support group was added this in January 2016 to meet the needs of working caregivers. The support groups are held in the building and led by faculty at the institute, two meetings for caregivers of individuals with Alzheimer’s and an additional meeting is held for individuals who have recently been diagnosed with Alzheimer’s. The daytime caregiver support group averages 18-22 participants and the evening caregiver group and the patient group both averages 8-10 individuals each month. The caregiver group provides regular referrals to the institute’s CARE Center, clinical trials and occupational therapy services.

Presentations at community support groups

Institute faculty are requested to present at community support groups and discuss behavior management, communication techniques, medication management and research updates. Presentations were provided to Brookdale Assisted Living, Baldomero-Lopez State Veterans’ Nursing Home, Legacy at Highwoods Preserve and the Samaritan Alzheimer’s support group in Sun City Center to name a few. This initiative reached over 60 caregivers and resulted in referrals to the CARE center, clinical trials and caregiver seminars.

Caregiver Seminars

Four caregiver seminars were conducted during this period in Tampa and Sun City Center, reaching more than 400 caregivers. The daylong seminars target family caregivers who are caring for a loved one with Alzheimer’s or other dementias in the home or an assisted living facility. Feedback from the participants is overwhelmingly positive and many have been caregivers for years with little or no education or support. The institute was also invited to present at three community caregiver seminars in Seminole, Lakeland and Tampa reaching more than 250 caregivers.

There are multiple benefits of this program including the opportunity to collaborate with community-based health care groups as sponsors of the seminar; to promote institute services and to increase the knowledge and skills of family caregivers.
Community Education

Each year, the Byrd Institute engages in community outreach to educate people on the benefits of memory screening and early diagnosis; the warning signs of Alzheimer’s and dementia; caregiver issues; pharmacological issues affecting memory; as well as Alzheimer’s diagnosis, treatment and research through a variety of activities such as monthly tours, offsite community talks, health fairs and conferences. Byrd Institute staff and faculty participated in panel discussions and delivered presentations to local church groups, assisted living facilities and community dementia programs. We continue to provide similar education in The Villages, Sun City Center, Seminole and Lakeland through existing partnerships.

Every year the institute conducts a three-session class on Alzheimer’s and brain health for the University of South Florida, Division of Lifelong Learning. This partnership has given the institute a great opportunity to reach older adults in the community and access to the Division of Lifelong Learning’s database of seniors for outreach on institute programs and events.

Each November, during National Alzheimer’s Disease Awareness Month, the Institute partners with other USF Health departments to offer free memory screenings and other important health screenings to the community. This year, the education division provided free lectures on early signs of memory loss and when to seek help from a clinician.

Community-Based Memory Screening & The Memory Care Registry

This fiscal year has focused on the expansion of our Community-Based Memory Screening (CBMS) program. Following the comprehensive evaluation conducted at our Villages CBMS site in Spring 2015, we were able to translate feedback and suggestions from the program administrator, volunteer nurse screeners and memory screening participants to begin to establish best practices for the continued statewide expansion. This has involved program modification and enhancement to our CBMS Implementation Guide; development of a four-session training program; creation of updated training tools including three training videos; establishment of an evaluation mechanism for CBMS memory screening administrator (MSA) trainees to assure standardization in baseline knowledge and development of a program evaluation mechanism for continuous programmatic improvement.

We continue the strategic expansion of our CBMS both onsite at the institute and throughout neighboring counties. There is now a core group of dedicated MSA volunteers that provide memory screenings three days per week at the institute. In addition, relationships with community groups in Tampa, Sun City Center and the Southshore area and Lakeland continue to thrive. We now have agreements with six groups and have trained over 50 volunteers to respond to a recognized community concern (memory loss and Alzheimer’s) by conducting memory screenings that provide education, build awareness and promote early intervention and diagnosis for memory loss. This coming fiscal year we will continue to explore opportunities to extend our collaborations with groups in Pinellas and Sarasota counties that have the infrastructure and volunteer force needed to participate in this growing program.
In addition, we have also continued to build relationships across the campus and expand our involvement in interdisciplinary student engagement. We now have students from several colleges and programs (aging studies, applied behavioral health, psychology, nursing, psychology, and public health) participating in internships, service learning experiences and field experiences at the institute. This opportunity supports the growth of a cadre of informed students that are better prepared to meet the demands of our changing population demographic.

Now in use by all CBMS sites, the Memory Care Registry allows for one-way data transfer of all memory screening-related data back to our secure server at USF. In development this year was also the use of a tablet-mediated data collection tool that once fully implemented and integrated will allow for paperless data capture in many communities as well as seamless, secure data transfer back to the database at USF. Both of these tools support another institute initiative, our Memory Research Suite. Once fully utilized, our research team will be able to more readily identify adults from mid and large-size Florida communities that have participated in our CBMS program and may be eligible for and interested in participating in clinical research studies thus shortening the extensive timeframe typically associated with new drug development.

New Initiatives and Programs

Dementia Friendly City
Under the leadership of the Florida Caregivers Network, the City of Seminole, located in Pinellas County, is pursuing the designation of a dementia friendly city. The USF Health Byrd Alzheimer’s Institute has been collaborating with the Florida Caregivers Network in this process and has assisted with two initiatives.

- First Responder Training-Meetings were held with representatives from the Byrd Institute, Florida Caregivers Network, the Seminole Sheriff Department and St Petersburg College to identify the educational needs of first responders and develop content for an educational video for training all first responders in the city of Seminole. The video project was completed and is now incorporated in the first responder training programs.
- Caregiver and community training-The Florida Caregivers Network has been conducting an annual day-long conference on Alzheimer's reaching more than 100 caregivers and individuals from the community. Faculty from the institute presented at the conference on caregiver issues and Alzheimer’s research.

Florida Adult Protective Services Training
With the increasing prevalence of Alzheimer's, the incidence of seniors living alone with dementia is becoming a serious concern. Stetson University College of Law, Center for Excellence in Elder Law contacted the institute regarding training for the State of Florida Adult Protective Services (APS) investigators. APS had an increase in the number of calls reporting potential self-neglect of seniors living alone with possible dementia. Eileen Poiley, MS, director of education at the institute presented “Interviewing Tips with a person with Alzheimer's” at two training sessions in February 2016 for 98 APS investigators from the following counties: Hillsborough, Pasco, Pinellas, Hardee, Manatee, Sarasota, Charlotte, Lee, Hendry, Glades, Desoto and Collier. In order to reach more APS staff, Ms. Poiley was asked to videotape the lecture and the video will be used to train APS investigators statewide.
Dissemination of Educational Material

Education materials is developed entirely in-house to meet the needs of the community requesting informational content related to Alzheimer's disease management and caregiver issues. The Byrd Institute Alzheimer's Caregiver Education Resource Library is available to caregivers, healthcare professionals, students and the community at large. The Education Division of the institute continually replenishes holdings in the library and responds to phone, email, US mail and in-person requests for information. New educational material developed during this period include, Helping Children Understand Alzheimer's, Alzheimer's in Minority Populations, Medication Issues, and Behavior Management.
Business Operations

Institute Organization Chart

Individuals Appointed to the Institute Board of Directors

Chairman of the Board
Sherrill M. Tomasino

Vice Chairman
Eric Pfeiffer, MD

Members
Mary M. Barnes
Johnnie B. Byrd, Jr., JD
Geri Siegel, Ed.D.
Valerie Landrieu McDevitt, J.D.
Frank L. Morsani

Individuals Appointed to Leadership Roles within the Institute

Chief Executive Officer
Dave Morgan PhD

Associate Institute Director
Jessica Banko, PhD, MS

Medical Director
Amanda Smith, MD

Scientific Director
Edwin Weeber, PhD
Communications and Marketing

To address the increasing need for minority participation in clinical research, the communications and marketing team at the Byrd Institute expanded outreach and engagement with diverse communities. Led by a targeted marketing strategy, the team maintained an active presence at various health fairs and meetings across the Bay area with more diverse audiences to spread the important message of the need for clinical trial enrollment. As a result, the institute saw a steady increase in minority participation in onsite clinic activities such as the Brain Health Fair and the Science Open House.

Conferences, Meetings and Health Fairs attended:

- Florida Geriatrics Society Annual Meeting & Educational Symposium, August 1-2, 2015
- Florida Council on Aging, Florida Conference on Aging, August 11-12, 2015
- Hillsborough County Back to School Fair Leto High School, August 21, 2015
- USF Hispanic Heritage Celebration, September 29, 2015
- Florida National Nursing Home Quality Care Collaborative Workshop, September 30, 2015
- Tampa General Hospital Provider Fair, October 1, 2015
- West Coast Regional Case Management Association General Meeting, October 6, 2015
- Guardian Association of Pinellas County 19th Annual Guardian Conference, October 9, 2015
- Tampa Bay Times Senior Expo Pinellas County, October 13, 2015
- Walk to End Alzheimer’s, Florida Gulf Coast Alzheimer’s Association, Oct-Nov, 2015
- Hillsborough County Aging Services Caregivers Workshop, November 10, 2015
- Arden Courts Dementia Awareness Day, November 12, 2015
- USF Health Dept. of Neurology Grand Rounds, January 22, 2016
- Florida Senior Day/Florida Assisted Living Association Lunch on the Lawn, January 23, 2016
- Tampa Bay Times Senior Expo Pinellas County, January 25, 2016
- Pasco-Hernando State College Health & Benefits Fair, February 23, 2016
- Caribbean American National Development Organization Community Health Fair, April 30, 2016
- St. Joseph’s John Knox Health Fair, June 10, 2016

2016 Science Open House

In March 2016, the institute held the 2nd annual Science Open House to allow the community to tour discovery labs and patient clinics. Over 100 guests were in attendance at the open house which included a tour of the 6th floor USF Health Parkinson’s Disease and Movement Disorders Clinic.

Memory Research Suite Ribbon Cutting/Media Day

In June 2016, the institute held a media preview and unveiling of the new mobile Memory Research Suite. The ribbon cutting marked the university’s reveal of the first mobile unit dedicated to clinical research in Alzheimer’s disease and related memory disorders. The media day generated press coverage on News Channel 8, Bay News 9, 10News, and a live shot on ABC Action News during their 5pm news program. Print stories were published in the Tampa Bay Times, Tampa Bay Business Journal, and The Villages Daily Sun.
Digital Media
The Byrd Institute maintains an active presence on Facebook, Twitter, Google+ and YouTube social sites. The Facebook page currently has 788 fans/followers and 147 Twitter followers. The Constant Contact email marketing service had nearly 1,500 subscribers in FY15/16. The email newsletter maintains an average email “open rate” of 41 percent, and an 18 percent average “click-through” rate. The institute’s YouTube presence is now managed by the USF Health Communications team and features videos on special initiatives such as the Community-Based Memory Screening Program training, as well as video coverage of the mobile suite ribbon cutting.

Print Media
The Brain Research Discoveries magazine Fall and Spring issues were published October 2015 and March 2016. The magazine is mailed to over 3,800 addresses locally and outside the state of Florida. All issues of Brain Research Discoveries magazine are uploaded to Issuu.com to reach millions of readers globally. This fiscal year story highlights include an in-depth look at the multidisciplinary clinical team that comprises the Center for Memory C.A.R.E. patient care model; practical strategies caregivers can use to make the holidays more enjoyable when caring for a loved one with Alzheimer’s; the expansion of the Community-Based Memory Screening Program to increase participation in clinical trials through the help of dedicated community volunteers; and a philanthropy profile of a board member and former superintendent using community activism to raise support for the fight against Alzheimer’s disease.

The Byrd Institute purchases annual ad space in the Senior Living Guide resource directory which runs from Spring/Summer to Winter/Fall. Ads are also placed, depending upon the marketing initiative, in targeted publications such as the Alzheimer’s Family Organization quarterly newsletter.

SPRING 2016

- Feature: The C.A.R.E. Clinic: High-tech with High-touch
- Dr. Maj-Linda Selenica: Preventing or Repairing Neuron Damage
- New Development Officer: Daniel Minor

FALL 2015

- Feature: Community-Based Memory Screening: Training Volunteers to Identify Early Signs of Dementia
- Dr. Kevin Nash: Can Gene Therapy Turn the Tide Against Alzheimer’s
- Dr. Sherrie Nickell: Philanthropy Profile, Turning Passion Into Action
- Caregivers: What’s Your Backup Plan?
Public Relations
The USF Health Byrd Institute works collaboratively with the USF Health Office of Communications to field media inquiries and pitch human interest stories on current research advancements and Alzheimer’s disease management. Among the most notable stories this fiscal year were:

**ABC Action News**  ‘Test at USF helps caregivers keep their loved one with Alzheimer’s Disease at home’
**USF Health News**  ‘Byrd Alzheimer’s Institute CEO champions funding for dementia research’
**Lakeland Ledger**  ‘Community testing: Alzheimer’s Institute looks to expand memory testing’
**The Dallas Morning News**  ‘Being aware of memory lapses is key’
**FOX13 News**  ‘USF recruiting patients for Alzheimer’s trials’
**FDANews**  ‘FDA Awards Orphan Therapy Designation to Agilis’ Angelman Syndrome Therapy’
**Lakeland Ledger**  ‘Every family member affected by memory-stealing disease’
**Lakeland Ledger**  ‘Alzheimer’s support groups benefit patient and caregiver’
**Tampa Bay Times**  ‘Wednesday’s letters: Alzheimer’s research gets a boost’
**The Villages Daily Sun**  ‘2016: A turning point for Alzheimer’s’
**ABC Action News**  ‘Major Alzheimer’s study at USF needs volunteers’
**USF Health News**  ‘USF Health takes part in national Tell Me More campaign to highlight compassionate patient care’
**PRWeb**  ‘Multiple Alzheimer’s Treatments Are in the Drug Pipeline, but Barriers to Access Will Remain’
**Observer.com**  ‘Could a New Treatment Stop Alzheimer’s Disease Before It Starts?’
**News Channel 8**  ‘Tampa doctors are on forefront of fight against Alzheimer’s’
**Tampa Bay Times**  ‘For people with dementia, devices bring music that awakens the past’
**Foreign Affairs Publisher**  ‘Early Alzheimer’s Linked to Brain ‘Leakage’’
**10News**  ‘Someone diagnosed with Alzheimer’s every 68 seconds’
**ABC Action News**  ‘Mobile memory research unit will help Tampa Bay Alzheimer’s patients’
**USF Health News**  ‘Byrd Alzheimer’s Institute ready to take clinical trials on the road’
**Tampa Bay Business Journal**  ‘USF Health wants to speed up access to Alzheimer’s trials’
**The Villages Daily Sun**  ‘USF Health Brings Research to The Villages’
Development

In August of 2015, the Byrd Institute hired a new director of development, Daniel Minor, filling a position left vacant in early 2014. Dan comes to USF with over 15 years of development/fundraising experience in the arts and healthcare fields. Most recently serving as manager of individual giving at the Straz Center for the Performing Arts and prior to that, special events/major gifts officer with Moffitt Cancer Center. Development is a major priority for the institute and Dan has been working collaboratively with current staff, development volunteers and community members to gain their support for various institute initiatives. The development program encompasses annual, special and major giving efforts.

2016 Development Program Highlights

- $465,682 raised in FY 16 ($341,250 in FY15)
- 336 Donor Contacts
- 58% Byrd Faculty/Staff Campaign Participation
- Hosted Donors/Prospects at the March 5th Byrd Open House
- Hosted a table of Donors/Prospects at the May 11th USF Women’s Health Collaboration Luncheon
- Updated donor recognition walls in Byrd lobby and CARE Floor.

Development Statistics

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<td><strong>ENDOWMENT SPENDABLE EARNINGS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beginning balance</td>
<td>$603,977</td>
<td><strong>747,886</strong></td>
<td>$725,661</td>
</tr>
<tr>
<td>Deposits</td>
<td>$243,873</td>
<td>$274,700</td>
<td>$321,376</td>
</tr>
<tr>
<td>Expenditures and transfers</td>
<td>$104,910</td>
<td>$298,500</td>
<td>$283,963</td>
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<tr>
<td>Current balance</td>
<td>$742,939</td>
<td>$724,086</td>
<td>$763,075</td>
</tr>
<tr>
<td><strong>OPERATING FUNDS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beginning balance</td>
<td>$1,740,334</td>
<td>$1,830,671</td>
<td>$1,915,062</td>
</tr>
<tr>
<td>Spendable gifts</td>
<td>$437,521</td>
<td>$266,316</td>
<td>$213,602</td>
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<tr>
<td>Expenditures and transfers</td>
<td>$347,150</td>
<td>$181,924</td>
<td>$360,879</td>
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<tr>
<td>Current balance</td>
<td>$1,830,705</td>
<td>$1,915,062</td>
<td>$1,767,785</td>
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<tr>
<td><strong>PLEDGED FUNDS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pledged gifts</td>
<td>$0</td>
<td>$972</td>
<td>$2,391</td>
</tr>
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*Endowments established for the benefit of the institute are invested in the USF Foundation’s long term Endowment pool. The primary long term investment objective of the endowment is to preserve the intergenerational equity of endowed gifts in order to provide a consistent source of funding for the programs supported by the endowment. These returns represent the 1 year return as of June 30th for the Foundation’s Endowment pool.

**New Endowment fund created July, 2015 with $4,947
Faculty Achievement

Peer-Reviewed Publications by Institute Faculty in Fiscal Year 2016


Conferences Attended by Institute Faculty in Fiscal Year 2015

1. Alzheimer's Association International Conference (AAIC), Toronto, Canada
2. Alzheimer’s Association International Conference, Washington, DC
3. Alzheimer Europe International Conference, Ljubljana, Slovenia
4. American Society for Neural Therapy and Repair International Conference, Clearwater, Florida
5. American Association of Pharmaceutical Sciences (AAPS) Annual Meeting and Exposition, Orlando, Florida
6. 21st Annual Midwest Stress Response and Molecular Chaperone Meeting, Evanston, Illinois
7. 54th American College of Neuropsychopharmacology, Hollywood, Florida
9. Community talk, Indian Cultural Center (ICC), Tampa, Florida
10. EBBS / EBPS Joint meeting, Verona, Italy
11. Florida Worm Meeting, Melbourne, Florida
12. Foundation for Angelman Syndrome Therapeutics Global Summit & Gala, Chicago, Illinois
13. Huanhu Hospital Alzheimer’s Conference. Tianjin, China
15. ISTAART AAIC, Washington, DC
16. McKnight Doctoral Research and Writing Conference at the Safety Harbor Resort, Safety Harbor, Florida
17. Metabolic Therapeutics, Tampa, Florida
19. Society for Research on Biological Rhythms, Palm Harbor, Florida
20. Undergraduate Research and Arts Colloquium, Tampa, Florida
21. US Against Alzheimer’s/Women Against Alzheimer’s Symposium, Washington, DC
22. USF Health 2016 Research Day, Tampa, Florida
23. USF Research Day, Tampa, Florida