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

Welcome to the Byrd Institute Annual Report for the 2013-14 fiscal year. This year witnessed several changes in the institute, and the initiation of several new programs. We have opened and entirely new service line for both the institute and for USF, in Occupational Therapy. Since opening last fall, we have had roughly 250 visits for services in the multiple activities provided through the Functional Assessments Facility. Visits will continue to grow as awareness about these services spreads within USF Health. We continued to expand our existing program in Community Based Memory Screening to East Tampa, and we are adding another educator to our staff to spread this program throughout the state. We also now offer a membership program referred to as Priority Memory Care. The membership fee for this program provides patients and their families with rapid medical appointments bundled with new and existing services.

In the past year one of our Suncoast physicians retired, and the Geriatrician seeing patients in the C.A.R.E. center left the university. In addition, the Dept. of Psychiatry Memory Disorders Clinic moved out of the building to achieve a less expensive “rent” paid to the practice plan. As a result, total patient visits declined slightly. Moving forward we intend to replace the physicians and will try to bring the Psychiatry clinic back into the institute.

The Byrd Institute has been “discovered” by the undergraduate students. The number of USF students quintupled over the last 2 years, nearing 100. Undergraduate volunteers provide invaluable services in the research laboratories, while receiving training in biomedical research. For many, the greatest reward is a strong recommendation to graduate or medical school. This rise in volunteers was coupled with declines in other staff numbers, primarily technical staff in the laboratories. Notably, our development officer was promoted to a new position, thus we are recruiting a staff person to fill that position.

Total expenditures and funding for the institute declined about 10% last year. This was largely due to reduced NIH grant funding associated with Federal budget sequestration. One large Dept. of Defense grant was discontinued due to sequestration, and new grants from NIH were elusive, at best. Overall the decrease in Federal support was $1.5 million. Our Grants Assistance Committee, a panel of experienced investigators who review grant ideas and projects before they are submitted, has redoubled its efforts. Already in the 2014-15 fiscal year we are seeing increases in new grant funding. We hope to continue this positive trend for the remainder of the year.

Although total patient visits were down, clinical revenue increased slightly. This was due to a continued increase in the number of PET scans being performed. The volume in the Pfeifer Imaging Center increased sufficiently to necessitate hiring a second PET technologist to continue expanding this service line. The clinical research activities increased slightly and expanded with the hire of a new clinical trial coordinator. A number of new clinical trial contracts have been received in the recent past and this activity appears to be expanding again.

We continued our arrangement with an outside lobbying team and the University of Florida to educate the legislature regarding the value of investing in Alzheimer’s research. This led to each University receiving $1.25 million again for 2014-15 to expand Alzheimer’s disease research programs. Our goal this year is to work through the USF legislative team to obtain this funding as a recurring item for the 2015-16 university budget.

Dave Morgan, PhD
CEO and Executive Director

...until Alzheimer’s is a memory®
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.
Assistant Professor of Pharmaceutical Sciences
College of Pharmacy

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

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

Michelle Estevez, M.D.
Assistant Professor of Internal Medicine
College of Medicine

Kristin Fargher, M.D.
Assistant Professor of Psychiatry & Behavioral Neurosciences
College of Medicine

Jean M. Fils, MD.
Assistant Professor of Psychiatry & Behavioral Neurosciences
College of Medicine

Joshua Gamsby, PhD.
Research Associate, Byrd Institute
College of Medicine

Marcia Gordon, Ph.D.
Professor of Molecular Pharmacology & Physiology
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., BCPP
Professor & Chair, Pharmacy Practice
College of Pharmacy

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

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

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

Michelle L. Mattingly, Ph.D., A.B.P.P.-C.N.
Assistant Professor of Psychiatry & Behavioral Neurosciences
College of Medicine

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

Kevin Nash, Ph.D.
Assistant Professor of Molecular Pharmacology & Physiology
College of Medicine
Jaya Padmanabhan, Ph.D.
Assistant Professor of Molecular Medicine
College of Medicine

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

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

Michael R. Schoenberg, Ph.D., A.B.P.P.-C.N.
Associate Professor of Psychiatry & Behavioral Neurosciences
College of Medicine

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

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

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

Nancy Teten, L.C.S.W.
Instructor of Neurology
College of Medicine

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

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

Brent Small, Ph.D.
Professor of School of Aging Studies
College of Behavioral & Community Sciences

Meredeth Rowe, RN, Ph.D., FGSA, FAAN
Professor and Endowed Chair
College of Nursing

Kevin Kip, Ph.D., FAHA
Distinguished Professor
College of Nursing

Eric Pfeiffer, M.D.
Professor Emeritus of Psychiatry & Behavioral Neurosciences
College of Medicine

Shaui Huang, Ph.D
Assistant Professor of Industrial Engineering
College of Engineering

Associate Members

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

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

Aryn Bush, Ph.D.
Assistant Professor of School of Aging Studies
College of Behavioral & Community Sciences

Alyssa Gamaldo, Ph.D.
Assistant Professor of School of Aging Studies
College of Behavioral & Community Sciences

Vladimir Uversky, Ph.D., DSc
Associate Professor of Molecular Medicine
College of Medicine

Jerri Edwards, Ph.D.
Associate Professor of School of Aging Studies
College of Behavioral & Community Sciences
# USF Health Byrd Alzheimer’s Institute Statistics

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<thead>
<tr>
<th></th>
<th>2011/2012</th>
<th>2012/2013</th>
<th>2013/2014</th>
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<tbody>
<tr>
<td><strong>CLINIC</strong></td>
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<td></td>
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<tr>
<td>Suncoast Alzheimer’s Center new patient visits</td>
<td>386</td>
<td>329</td>
<td>529</td>
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<tr>
<td>Suncoast Alzheimer's Center Follow-up visits</td>
<td>1,388</td>
<td>1,679</td>
<td>1,489</td>
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<tr>
<td>C.A.R.E. visits (opened Feb 2012)</td>
<td>104</td>
<td>187</td>
<td>262</td>
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<tr>
<td>Imaging visits (opened Jan 2012, diagnostic)</td>
<td>100</td>
<td>251</td>
<td>289</td>
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<tr>
<td>Occupational Therapy visits (opened Sept 2013)</td>
<td>-</td>
<td>-</td>
<td>203</td>
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<tr>
<td>Driver Safety Evaluations (opened Sept 2013)</td>
<td>-</td>
<td>-</td>
<td>44</td>
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<tr>
<td>Clinical Trial visits</td>
<td>654</td>
<td>200</td>
<td>274</td>
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<tr>
<td>Memory Disorders Clinic visits (closed Oct 2013)</td>
<td>1228</td>
<td>941</td>
<td>73</td>
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<tr>
<td>Movement Disorders Clinic visits (opened 2012)</td>
<td>1450</td>
<td>2158</td>
<td>2450</td>
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<tr>
<td>Geriatric Medicine visits</td>
<td>279</td>
<td>380</td>
<td>518</td>
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<td><strong>Total patient visits</strong></td>
<td><strong>5,589</strong></td>
<td><strong>6,125</strong></td>
<td><strong>6,131</strong></td>
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<td><strong>STUDENTS</strong></td>
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<td>Medical degree-seeking (program ended 2012)</td>
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<td>Graduate degree-seeking</td>
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<td>Post-doctoral</td>
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<td>Undergraduate</td>
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<td>63</td>
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<td>High School</td>
<td>4</td>
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<tr>
<td><strong>Total Trainees</strong></td>
<td><strong>94</strong></td>
<td><strong>132</strong></td>
<td><strong>163</strong></td>
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<td><strong>FACULTY AND STAFF</strong></td>
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<tr>
<td>Clinical Faculty</td>
<td>15</td>
<td>14</td>
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<td>Clinical Staff</td>
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<td>20</td>
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<td>Laboratory Research Faculty</td>
<td>13</td>
<td>15</td>
<td>14</td>
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<td>Laboratory Research Staff</td>
<td>28</td>
<td>24</td>
<td>14</td>
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<td>Education Faculty</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<td>Administrative Staff</td>
<td>7</td>
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<tr>
<td>Plant Operations/Maintenance Staff</td>
<td>5</td>
<td>5</td>
<td>6</td>
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<tr>
<td>Part-time/temporary Staff</td>
<td>1</td>
<td>1</td>
<td>2</td>
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<td><strong>Total Employees</strong></td>
<td><strong>91</strong></td>
<td><strong>87</strong></td>
<td><strong>71</strong></td>
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<td><strong>RESEARCH</strong></td>
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<td>Active Research Grants</td>
<td>39</td>
<td>35</td>
<td>26</td>
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<td>Active Clinical Trials</td>
<td>13</td>
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<td>Clinical Trial Subject Visits</td>
<td>654</td>
<td>200</td>
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<td><strong>ENDOWMENT</strong></td>
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<td>Principal Value</td>
<td>$4,616,579</td>
<td>$5,386,509</td>
<td>$5,478,384</td>
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<td>Market Value</td>
<td>$5,517,597</td>
<td>$6,697,229</td>
<td>$7,643,015</td>
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2014 Financial Overview

**Funding by Source**

- **28%** Basic Research Grants
- **6%** Clinical Research Grants
- **6%** Foundation
- **43%** E&G
- **8%** PSR
- **4%** USF
- **1%** EBA
- **5%** Institute Reserves

**Expenditures by Activity**

- **47%** Research
- **17%** Facility Operations/Maintenance
- **15%** Education
- **13%** Clinical Services
- **5%** Business Operations
- **2%** External Affairs
- **1%** Development
### Funding by Source (in thousands)

<table>
<thead>
<tr>
<th>Source</th>
<th>2011/2012</th>
<th>2012/2013</th>
<th>2013/2014</th>
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<tr>
<td>Basic Research Grants</td>
<td>$4,390</td>
<td>$3,650</td>
<td>$2,365</td>
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<tr>
<td>Clinical Research Grants</td>
<td>$460</td>
<td>$587</td>
<td>$533</td>
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<tr>
<td>USF Foundation</td>
<td>$564</td>
<td>$356</td>
<td>$478</td>
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<tr>
<td>E&amp;G</td>
<td>$2,554</td>
<td>$2,845</td>
<td>$3,690</td>
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<tr>
<td>Patient Services Revenue</td>
<td>$310</td>
<td>$641</td>
<td>$671</td>
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<td>Educational Business Activity</td>
<td>$39</td>
<td>$28</td>
<td>$43</td>
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<td>USF</td>
<td>$373</td>
<td>$591</td>
<td>$374</td>
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<td>Institute Reserves</td>
<td>$1,749</td>
<td>$1,040</td>
<td>$404</td>
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<td><strong>TOTAL INSTITUTE FUNDING</strong></td>
<td><strong>$10,439</strong></td>
<td><strong>$9,738</strong></td>
<td><strong>$8,558</strong></td>
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### Expenditures by Activity (in thousands)

<table>
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<tr>
<th>Activity</th>
<th>2011/2012</th>
<th>2012/2013</th>
<th>2013/2014</th>
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<tr>
<td><strong>RESEARCH EXPENDITURES</strong></td>
<td><strong>$5,912</strong></td>
<td><strong>$5,117</strong></td>
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<td>Federal Grants</td>
<td>$3,831</td>
<td>$2,711</td>
<td>$1,297</td>
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<td>Non-Federal Grants</td>
<td>$559</td>
<td>$939</td>
<td>$1,068</td>
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<td>Alzheimer Institute</td>
<td>$319</td>
<td>$186</td>
<td>$61</td>
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<tr>
<td>USF</td>
<td>$373</td>
<td>$591</td>
<td>$373</td>
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<tr>
<td>USF Foundation</td>
<td>$360</td>
<td>$165</td>
<td>$169</td>
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<td>Clinical Trials</td>
<td>$470</td>
<td>$525</td>
<td>$553</td>
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<tr>
<td>State Appropriation (first received 2014)</td>
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<td></td>
<td>$495</td>
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<td><strong>CLINICAL SERVICES EXPENDITURES</strong></td>
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<td><strong>$1,209</strong></td>
<td><strong>$1,131</strong></td>
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<tr>
<td><strong>EDUCATIONAL EXPENDITURES</strong></td>
<td><strong>$802</strong></td>
<td><strong>$1,024</strong></td>
<td><strong>$1,265</strong></td>
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<tr>
<td>Faculty E&amp;G</td>
<td>$692</td>
<td>$911</td>
<td>$1,137</td>
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<tr>
<td>Caregiving and Professional Education</td>
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<td>$114</td>
<td>$128</td>
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<td><strong>DEVELOPMENT EXPENDITURES</strong></td>
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<td><strong>$133</strong></td>
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<td><strong>EXTERNAL AFFAIRS EXPENDITURES</strong></td>
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<td><strong>$253</strong></td>
<td><strong>$164</strong></td>
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<td><strong>BUSINESS OPERATIONS EXPENDITURES</strong></td>
<td><strong>$530</strong></td>
<td><strong>$431</strong></td>
<td><strong>$421</strong></td>
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<tr>
<td>Finance and Accounting</td>
<td>$121</td>
<td>$121</td>
<td>$76</td>
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<tr>
<td>USF Health Governance</td>
<td>$169</td>
<td>$38</td>
<td>$59</td>
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<tr>
<td>Executive Administration</td>
<td>$240</td>
<td>$272</td>
<td>$286</td>
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<tr>
<td><strong>FACILITY OPERATION &amp; MAINTENANCE</strong></td>
<td><strong>$1,870</strong></td>
<td><strong>$1,571</strong></td>
<td><strong>$1,460</strong></td>
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<tr>
<td><strong>TOTAL INSTITUTE EXPENDITURES</strong></td>
<td><strong>$1,0439</strong></td>
<td><strong>$9,738</strong></td>
<td><strong>$8,558</strong></td>
</tr>
</tbody>
</table>
Research

Clinical Research

We recognize the critical need to research new treatment options. Current medications cannot stop Alzheimer’s disease. These medications may help prevent some symptoms from getting worse. Current research is aiming to halt or slow the progression of Alzheimer’s disease itself. Additionally, there is a great need for better ways to diagnosis and treat memory problems earlier.

Our center is involved in a number of research studies for various stages of Alzheimer’s disease and mild cognitive impairment. 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 or injections. Other trials study the effect of noninvasive treatments and nutritional supplements on Alzheimer’s disease. Some of our studies involve more advanced brain imaging techniques such as PET scans. Many of these trials are part of the Alzheimer’s Disease Collaborative Study (ADCS), or the Alzheimer’s Disease Neuroimaging Initiative, both NIH funded nationwide clinical research consortia of leading Alzheimer’s research centers. In addition, we continue to enroll subjects in our pilot study of coconut oil as a symptomatic treatment for AD.

While we had a slow fiscal year in 2013, this 2014 fiscal year has been very productive! Not only have we continued participation in trials to target beta amyloid in mild to moderate Alzheimer’s disease and mild cognitive impairment, we’ve also become more involved in other areas of clinical research. This year we began a trial investigating a treatment for the tau protein that causes tangles. We were also selected as a site for new PET scan imaging agents that are in development for an imaging agent to detect and measure this tau protein as well to begin enrollment in FY 2015. (An agent called Amyvid™ was FDA-approved in 2012 to detect and measure amyloid plaques.) And lastly, we were selected as one the sites in the US, Canada, and Australia to participate in a new, innovative prevention trial funded by Eli Lilly and the NIH for people who are over the age of 65 and may be at risk for developing Alzheimer’s disease called the A4 trial, as well as another trial investigating a new innovative treatment approach using nasal insulin spray for patients with mild cognitive impairment and mild Alzheimer’s disease.

With great optimism, we look forward to the next year of research. We will be busy enrolling and continuing trials, as well as bringing on new staff to support in the increased activity.

Clinical Research Statistics

<table>
<thead>
<tr>
<th></th>
<th>2011/2012</th>
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<tr>
<td>New studies awarded</td>
<td>2</td>
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<td>6</td>
</tr>
<tr>
<td>Active studies</td>
<td>13</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Enrolling studies</td>
<td>6</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>Total subjects enrolled</td>
<td>30</td>
<td>21</td>
<td>108</td>
</tr>
<tr>
<td>Subject visits</td>
<td>654</td>
<td>200</td>
<td>349</td>
</tr>
<tr>
<td>Average enrollment per trial</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Average enrollment fulfillment (# screened/# contracted)</td>
<td>153%</td>
<td>100%</td>
<td>69%</td>
</tr>
<tr>
<td>Average randomized success (# randomized/#screened)</td>
<td>92%</td>
<td>82%</td>
<td>82%</td>
</tr>
<tr>
<td>Research study income (direct costs)</td>
<td>$459,825</td>
<td>$587,453</td>
<td>$533,152</td>
</tr>
<tr>
<td>Research study expenses (direct costs)</td>
<td>$469,927</td>
<td>$524,853</td>
<td>$513,304</td>
</tr>
</tbody>
</table>
Studies active during fiscal year 2014 listed by study sponsor

1. **ADCS**: Alzheimer’s Disease Neuroimaging Initiative (ADNI2) 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 [PI: Smith]

2. **ADCS**: Anti Amyloid Treatment in Asymptomatic Alzheimer’s Disease (A4 Study). (H8A-MC-LZAZ/A4) [PI: Smith]

3. **ADCS**: Phase II Study to Evaluate the Impact on Biomarkers of Resveratrol Treatment in Patients with Mild to Moderate Alzheimer’s Disease.

4. **ADCS**: Therapeutic effects of intranasally-administered insulin (INI) in adults with amnestic mild cognitive impairment (aMCI) or mild Alzheimer’s disease (AD). (ADC-046-INI) [PI: Smith]

5. **Avid**: An open label, multicenter study, evaluating the safety and imaging characteristics of $^{18}$F-AV-1451 in cognitively healthy volunteers, subjects with Mild Cognitive Impairment, and subjects with Alzheimer’s disease ($^{18}$F-AV-1451-A05) [PI: Smith]

6. **Dana Foundation**: Safety, Efficacy of GM-CSF (Leukine) For Treatment of Alzheimer’s Disease [PI: Potter, Raj]

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-G000-201) [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. **Janssen**: A Phase II, Twenty-Four Month, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Amyloid-Imagine Positron Emission Tomography (PET) and Safety Study of ACC-001 and QS-21 adjuvant in subjects with mild to moderate Alzheimer’s disease. (ACC-001-ALZ-2001) [PI: Smith]

11. **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]

12. **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]

13. **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]

14. **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]

15. **Foundation for Angelman Syndrome Therapeutics**: The effects of minocycline in the treatment of Angelman syndrome. [PI: Weeber]
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.

The funding portfolio of newly awarded research grants to Institute investigators changed dramatically last fiscal year. No new NIH awards were received by Institute investigators in 2014 and the Department of Defense continuing program awarded in 2011 was eliminated as a result of the Sequestration Act. The private funding sector has largely absorbed the research funding burden levied by the dramatic federal program spending cuts and sequestration. Recognizing the change in tide, Institute faculty aggressively pursued foundation- and industry-sponsored funding opportunities. Whether the private sector will continue to be in a position to support research at the current level is unpredictable. Investigators continue efforts to diversify their sources of research income to fund their programs. These efforts chiefly include cultivating new multidisciplinary partnerships with industry, intellectual property development and increased emphasis on foundation and philanthropy support. We have also formalized a program for review of grant applications from Institute faculty by senior researchers in the institute.

During 2014, Institute researchers have shared their research findings with the academic community during 43 invited presentations, at 23 scientific conferences and through 28 peer-reviewed journal articles.

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>New federal grants</td>
<td>6</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Continuing federal grants</td>
<td>16</td>
<td>12</td>
<td>7</td>
</tr>
<tr>
<td>New non-federal grants</td>
<td>5</td>
<td>9</td>
<td>4</td>
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<tr>
<td>Continuing non-federal grants</td>
<td>12</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total active grants</strong></td>
<td><strong>39</strong></td>
<td><strong>33</strong></td>
<td><strong>20</strong></td>
</tr>
<tr>
<td>Research faculty/Principal Investigators</td>
<td>14</td>
<td>15</td>
<td>14</td>
</tr>
<tr>
<td>Average sponsored activity per research faculty</td>
<td>2.8</td>
<td>2.2</td>
<td>1.4</td>
</tr>
<tr>
<td>New federal grant awards value (annualized)</td>
<td>$1,376,681</td>
<td>$306,548</td>
<td>74,750</td>
</tr>
<tr>
<td>New non-federal grant awards value (annualized)</td>
<td>$429,778</td>
<td>$1,391,595</td>
<td>356,539</td>
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<td><strong>Total new grant award value</strong></td>
<td><strong>$1,806,459</strong></td>
<td><strong>$1,718,143</strong></td>
<td><strong>431,289</strong></td>
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<tr>
<td>Federal grant expenditures</td>
<td>$3,831,029</td>
<td>$2,710,953</td>
<td>1,296,822</td>
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<tr>
<td>Non-federal grant expenditures</td>
<td>$558,846</td>
<td>$939,336</td>
<td>1,068,257</td>
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<tr>
<td><strong>Total sponsored research expenditures</strong></td>
<td><strong>$4,389,875</strong></td>
<td><strong>$3,650,289</strong></td>
<td><strong>2,365,079</strong></td>
</tr>
</tbody>
</table>
Grants active during fiscal year 2013 listed by sponsor

Federal Sponsors

1. **National Institute of Aging** “ApoE receptor biology and neurodegeneration” [PI: Weeber]
2. **National Institute of Aging** “ApoE effects on neuron signaling and function via ApoER2” [PI: Weeber]
4. **National Institute of Aging** “Chemical Probes and Chaperone-Accelerated Turnover of Tau” [PI: Dickey]
5. **National Institute of Neurological Disease and Stroke** “The Hsp90 cochaperone FKBP51 regulates tau structure and function” [PI: Dickey]
6. **National Institute of Neurological Disease and Stroke** “Inhibition of Hsp70 ATPase activity” [PI: Dickey]
7. **National Institute of Neurological Disease and Stroke** “Immunotherapy against tauopathy in a transgenic mouse model” [PI: Morgan]
8. **Veterans Administration Medical Center - James A. Haley** “HSP70/DNAJ interface as a drug target for Alzheimer’s disease and TBI” [PI: Dickey]

Non-Federal Sponsors

1. **ALS Biopharma** “A Diarylheptanoid scaffold to treat tauopathies” [PI: Dickey]
2. **Alzheimer’s Association** “Ketogenesis and Alzheimer Pathology” [PI: Morgan]
3. **Alzheimer’s Association** “Impact of Arginase-1 Deficiency on Tau and Amyloid Pathogenesis” [PI: Lee]
4. **American Health Assistance Foundation** “Disrupting Chaperone/Myocilin Complexes for Glaucoma” [PI: Dickey]
5. **American Health Assistance Foundation** “Chemical Approaches to Reducing Tau Levels” [PI: Dickey]
6. **American Federation for Aging Research** “Exploring the Links Between Aging, Proline Cis/Trans Isomerization, Proteotoxicity, and Neurodegeneration” [PI: Dickey]
7. **CurePSP** “Impact of Arginase1 overexpression” [PI: Lee]
8. **Foundation for Angelman Syndrome Therapeutics** “Identification and Characterization of Novel Therapeutics for Angelman Syndrome” [PI: Weeber]
9. **Lundbeck, Inc.** “Monocyte Recruitment Inhibition Using C5aR Antibody in Transgenic Mouse Models with Alzheimer-Like Pathology” [PI: Gordon]
10. **Michael J Fox Foundation for Parkinson’s Research** “Modulation of Microglial Activation” [PI: Nash]
11. **Michael J Fox Foundation for Parkinson’s Research** “Validation of SAT1 and Polyamine” [PI: Nash]
12. **Thome Memorial Foundation** “Histone deacetylase-6 inhibition as a treatment for tauopathy” [PI: Morgan]
Alzheimer’s Clinical Center

The Alzheimer’s Clinical Center consists of the first and second floor outpatient clinics of the Byrd Alzheimer’s 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 2012-13, the clinics increased the number of both new and follow up patient visits. Most notably, the total number of visits per provider has increased steadily for the last 3 years. In addition to the many local patients we serve, we have had a growing number of visits from across the state. We also have had increasing numbers of out-of-state residents coming to Tampa specifically for evaluation at the Byrd Institute. We have also, in the last twelve months, seen patients travel to us from the Caribbean, Central and South America, Canada, England, the Middle East, India, and Korea.

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

Within the Center for Memory C.A.R.E. located on the second floor, we implemented a multi-specialty diagnostic clinic for initial, comprehensive memory evaluations. During one of these visits, patients have a general health examination by a geriatrician, a neuropsychological assessment, a medication review by a geriatric pharmacist, a detailed memory evaluation by a geriatric psychiatrist, and a session with a licensed clinical social worker. These half-day sessions were initially offered for 1-2 patients one day a week, and we have increased the number to 5 patients per week due to increasing demand.

Over the last year we have also expanded our services within the second floor C.A.R.E. center. They now include a library with computer kiosks linked to Institute-approved information regarding Alzheimer’s disease. Recently we have added an Occupational Therapist to our staff for providing assessment of driving ability, risk of falling, and capacity for independent living. We also now have a Skype-based Elder law attorney who has donated services to prepare power of attorney and health care surrogate documents at no cost to our patients.

Eric Pfeiffer PET Imaging Center

The PET Imaging center continues a steady increase with our brain and oncology PET services, with support from both within USF and our local community. In addition, we have had significant growth with our PET research trial enrollment and currently are participating in more than ten studies. We continue to provide Amyloid brain PET imaging services to those who can afford to pay out-of-pocket, and we are optimistic that Medicare and other insurance carriers will move forward towards reimbursement due to supported evidence-based imaging within the last year. Our patients continue to share positive feedback of our facility and the specialized, individual attention by our staff.

In January 2014, we hired an additional PET technologist to share a position between PET imaging and research support specialist. This position reflects our significant growth in both clinical trial participation and in our PET department, including Amyloid, brain and oncology imaging services.
## Alzheimer’s Clinical Center Statistics

<table>
<thead>
<tr>
<th>Service Description</th>
<th>2011/2012</th>
<th>2012/2013</th>
<th>2013/2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>New patient visits to Suncoast Alzheimer’s Center</td>
<td>386</td>
<td>329</td>
<td>529</td>
</tr>
<tr>
<td>Follow-up visits Suncoast Alzheimer’s Center</td>
<td>1,388</td>
<td>1,679</td>
<td>1,489</td>
</tr>
<tr>
<td>C.A.R.E. visits (opened 2012)</td>
<td>104</td>
<td>251</td>
<td>262</td>
</tr>
<tr>
<td>Imaging visits (opened 2012, diagnostic)</td>
<td>100</td>
<td>267</td>
<td>289</td>
</tr>
<tr>
<td>Occupational Therapy visits (opened Sept 2013)</td>
<td></td>
<td></td>
<td>203</td>
</tr>
<tr>
<td>Driver Skill Evaluation visits (opened Sept 2013)</td>
<td></td>
<td></td>
<td>44</td>
</tr>
<tr>
<td>Clinical trial visits</td>
<td>654</td>
<td>200</td>
<td>274</td>
</tr>
<tr>
<td>Memory Disorders Clinic visits</td>
<td>1,228</td>
<td>941</td>
<td>73</td>
</tr>
<tr>
<td><strong>Total patient visits</strong></td>
<td><strong>3,860</strong></td>
<td><strong>3,667</strong></td>
<td><strong>3,163</strong></td>
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</tbody>
</table>

<table>
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<th>Service Description</th>
<th>2011/2012</th>
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<tr>
<td>*Services billed</td>
<td>$ 793,293</td>
<td>$ 1,569,902</td>
<td>$ 1,662,624</td>
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<td>Contractual adjustments</td>
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<td>$ 924,717</td>
<td>$ 972,057</td>
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<tr>
<td>Bad debt</td>
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<td>$ 4,665</td>
<td>$ 18,280</td>
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<td><strong>Payments received</strong></td>
<td><strong>$ 310,401</strong></td>
<td><strong>$ 640,520</strong></td>
<td><strong>$ 671,899</strong></td>
</tr>
</tbody>
</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 healthcare professionals, Alzheimer’s disease 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

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 35 continuing graduate students and approved four individuals to receive the Ph.D. degree in academic year 2013/2014.

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. Fifteen post-doctoral fellows trained under Institute faculty during academic year 2013/2014.

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 institute 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 2013/2014, 97 undergraduate students and 37 high school students participated in research at the Alzheimer’s Institute.
Healthcare Professionals

The clinicians and caregiving experts at the institute have created a portfolio of educational training programs and materials designed to meet the needs of professionals involved in the care of individuals with Alzheimer's and other dementias, as well as their caregivers. The training content provides the knowledge and practical skills necessary to provide quality care to those with dementia.

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, ombudsmen and gerontologists. With the addition of the occupational therapy services at the institute and expertise in the therapeutic intervention for Alzheimer's, we have added occupational therapists to our audience of healthcare providers and have become accredited through the Florida Board of Occupational Therapy to provide continuing education credit.

The health professionals trained represent diverse 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 healthcare 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
- Florida Board of Clinical Social Work, Marriage and Family Therapy and Mental Health Counseling
- Florida Board of Nursing Home Administrators
- Florida Board of Occupational Therapy
- Assisted Living Administrators
- Care Managers
- Professional Guardians
- Certified Nursing Assistants

Ten education programs were presented reaching more than 500 healthcare providers. We developed and conducted training for the staff at Assisted Living Facilities in Tampa, Largo, Clearwater, Sarasota and Deland, FL; conducted two half day workshops in Tampa at the USF Health Byrd Alzheimer’s Institute; Presented at the Hillsborough County Elder Justice Committee, and the Retired Nurses Association in the Villages to name a few.

Our monthly tours and lecture also attract health care providers from throughout Tampa Bay who want to learn more about Alzheimer's diagnosis and research.
During this year we expanded the geographic area we provided training, both in Florida and nationally. We conducted a six week continuing education national webinar on understanding Alzheimer’s disease, behavior management and occupational therapy interventions for dementia patients. The audience for the live webinars included nurses, occupational therapists and long term care staff and administrators from across the country. The webinar is available online for continuing education credit through Academy Medical, and it is their only course offering on dementia. A training program was conducted on strategies for managing behaviors with individuals with Alzheimer’s for healthcare providers and caregivers at Tanglewood Manor in Jamestown NY. Training was conducted for the assisted living, nursing home and home health staff at John Knox Village of Central Florida in Deland Florida.

Geriatric Institute

The institute conducts a 3-day continuing education seminar every 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 16th year, this conference is very well recognized in the aging network and the evaluations consistently rate the seminar excellent for content and speakers. The seminar focuses on Alzheimer’s disease and other dementias and also includes other practitioners from USF Health on topics pertaining to critical issues in geriatrics. The 3-day program averages more than 100 participants from the Tampa Bay area and more than 20 businesses that pay to exhibit. This conference has been an excellent source of referrals and networking for future program collaboration. This year’s program had a total of 185 participants, some from as far as Tallahassee, which has made it necessary to secure a new location that is able to accommodate a larger audience and allow us to expand this to a statewide program in 2015.

Continuing Medical Education for Physicians

This past year the Byrd Institute hosted a special accredited Physician Continuing Medical Education Program to members of the Bay Area Medical Association, comprised of 150 African-American physicians throughout Tampa Bay. Physicians learned best practices for the diagnosis and treatment of dementia including newly available diagnostic imaging techniques and medication management for patients with early onset Alzheimer’s.

Family Caregivers

Caregiver Education

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

Support Groups

Four monthly support groups are held in the building and led by faculty at the institute with a range of 4-20 participants attending each monthly meeting. The four support groups are:

- for caregivers of individuals with Alzheimer’s
- for caregivers of individuals with Lewy body dementia
- for individuals with loved ones with Mild Cognitive Impairment
• for individuals who have memory loss or have recently been diagnosed with Alzheimer’s

Presentations at community support groups

Institute faculty are requested to present at community based support groups and discuss behavior management, communication techniques, medication management and research updates. Presentations were given at the support groups at John Knox Village in Tampa, Emeritus Senior Living, and the Samaritan Alzheimer’s support group in Sun City Center to name a few. This initiative reached over 100 caregivers and resulted in referrals to the CARE center, our clinical trials and our caregiver seminars.

Caregiver Seminars

Eight Caregiver seminars were conducted during this period throughout Florida, including Ocala, Deland, St. Petersburg, Spring Hill, Largo, Sun City Center and Tampa reaching more than 600 caregivers. The day-long 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. The feedback from the participants is overwhelmingly positive and many have been caregivers for years with little or no education or support.

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 the services of the institute to caregivers and to increase the knowledge and skills of family caregivers.

Community Education

Each year the Byrd Institute engages the community 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; Alzheimer’s diagnosis, treatment and research through a variety of activities such as monthly tours, offsite community talks, health fairs and conferences. During fiscal year 2014, the Byrd Institute continued its goal to identify and establish relationships with new community groups and professional organizations. The institute developed a new community alliance with the Brevard Alzheimer’s Foundation based in Melbourne, FL, and is featured in their Purple Balloon Alzheimer’s Awareness Center. This collaboration is helping to educate residents of Brevard County on current clinical studies in Alzheimer’s and resources to support caregivers coping with the disease. We continue to provide similar education in The Villages, Sun City Center, East Tampa and Lakeland through existing partnerships.

The institute held health events and educational activities such as the first annual Senior Safety and Falls Prevention Day and National Memory Screening Day. To recognize Falls Prevention Awareness Month (September) and shed light on older adult falls, the Byrd Institute offered free balance screenings, vision screenings and home safety tours to the community inside the Functional Assessments and Rehabilitation Center. A licensed occupational therapist provided a presentation on the benefits of occupational therapy in falls prevention, and strategies older adults can use to reduce the risk of falls inside and outside the home.

Each November, the Institute shuts down clinic operations to offer free memory screenings and other important health assessments to the community. The Institute collaborated with several departments in USF Health to
provide additional health screenings including balance, vision, hearing and medication reviews. The day-long event attracted more than 200 guests in 2013.

**New Initiatives and Programs**

Institute faculty participated in the first AlzTalk seminar in Largo in collaboration with Elder Law Attorney, Sean Scott. The dynamic day-long program was formatted after the well-known TED Talks and the four presentations are now available on U-Tube.

As part of the Promising Innovations Grants funded by the Kendal Charitable Trust, the institute completed the implementation of a Community-Based Memory Screening Program in East Tampa. The culmination of the project was the development of a comprehensive guide for implementing community memory screening programs. The guide contains all necessary components to plan and implement community based memory screening including a video training, content information substantiating the need and benefits of memory screening, a PowerPoint presentation for training screeners, screening forms with detailed instructions, educational handouts, promotional materials and an evaluation.

As the aging population increases so does the prevalence of Alzheimer's and the need for assisted living facilities specifically designed for memory care. The education division now provides individualized consultation with long term care corporations, architects and design firms on the design and components of the physical environment best suited to meet the cognitive and physical changes and challenges of Alzheimer’s residents.

Academy Medical Systems has been a leader in continuing education for the healthcare industry since 1979. They contacted the institute during this reporting period requesting a six-session webinar on Alzheimer's for their healthcare constituency. Academy Medical webinars feature experts in their field and can be viewed live, or recorded to meet the growing demand for flexible continuing education. As a result of the success of this series, the institute will continue to conduct webinars to reach a broader based audience of healthcare providers.

**Dissemination of Educational Material**

In addition to live talks, education was provided by the dissemination of educational material. The USF Health Byrd Alzheimer's 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 the holdings in the library and responds to phone, email, US mail and in-person requests for information. The educational publications produced by the institute were re-designed as “Byrd Briefs,” an easy to read trifold format on key topics pertaining to Alzheimer's.

New educational material was developed during this period to now include publications on home safety for the Alzheimer's individual, medication issues, fall prevention, behavior management, and coping with caregiver stress.
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
John M. Hehn, Jr.
Karen Holbrook, PhD
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

The Communications and Marketing Team at the Byrd Institute engages in strategic initiatives and tactics to strengthen the institute’s brand, and increase public awareness of clinic services, scientific research and caregiver support services.

Brand Identity

To further solidify the ‘Byrd’ brand, the institute successfully secured a registered trademark in fiscal year 2013 of its tagline “…until Alzheimer’s is memory®,” and is currently pursuing a trademark for the “flying B” design mark—which now serves as the official symbol for the Byrd Alzheimer’s Institute. The institute now has an inventory of branded promotional items to coincide with printed brochures, flyers and pamphlets on patient services. Branded promo materials include: license plate frames, purple stress brains, magnetic staff name badges, lapel pins, and clipboards.

Physician Relationship Building

In order to obtain new patient referrals, the Byrd Institute routinely communicates with Tampa area physicians through direct mailings on patient services, and clinic updates and news. The institute maintains a comprehensive mailing list of over 200 medical physicians from varied disciplines and specialties. Each year on Doctors’ Day (March 30th), the institute sends out a special postcard to over 250 physicians at USF Health and in the community thanking them for their clinical service. In fiscal year 2013, the institute developed a clipboard promoting PET/CT imaging that was shared with physicians to display in their medical offices.

Social Media

In April 2014, the Byrd Institute established a Twitter account with its first tweet, “…until Alzheimer’s is a memory.” To-date, the institute has 49 Twitter followers. The Byrd Institute Facebook currently has 527 fans/followers, an increase of 20 percent over FY2012. The Constant Contact email marketing service has seen a steady increase of subscribers with 744 active contacts—a 31 percent increase over the previous fiscal year. The newsletter continues to attract an average email “open rate” of 40 percent, and a 20 percent average “click-through” rate.

Print Media

In fiscal year 2013, the Byrd Institute renewed its annual Ad space in the Senior Living Guide (Fall/Winter 2014-2015 edition), and purchased an Ad in the Alzheimer’s Family Organization, 10th Annual Fashion Show program booklet. The Brain Research Discoveries magazine fall and spring issues were published October 2013 and April 2014. The magazine has over 3,500 subscribed readers locally and across the US. In future issues, the institute will include a ‘Patient Experience’ profile to highlight the stories of the caregivers of clinic patients, and allow readers to gain insight on what it’s like to live with Alzheimer’s disease from the patient/caregiver perspective.
SPRING 2014

- Feature: Hollywood actors Seth Rogen and Lauren Miller using their star power in the fight against Alzheimer’s disease
- Feature: Scientist Dr. Dan Lee hopes to advance treatment for Alzheimer’s and Parkinson’s diseases
- Feature: Boosting brainpower for safer driving, successful aging

FALL 2013

- Feature: Dr. Marcia Gordon: Identifying therapies to help prevent symptoms of Alzheimer’s
- Feature: Coconut oil: A boost for faltering brain cells?
- Feature: Q & A with Jennifer Bogush, AS, CNMT, certified nuclear medicine technologist

Public Relations

The USF Health Byrd Institute works closely with the USF Health Office of Communications and Marketing to generate news releases and respond to incoming media inquiries. Among the most notable stories this fiscal year were:

**The Tampa Tribune** ‘Who will care for an aging generation?’

**MyFOX Tampa Bay** ‘Dr. Jo’s super foods series: Coconut’

**The Tampa Tribune** ‘Support essential for the Alzheimer’s caregiver’

**USF Health News** ‘Age-related research highlighted during NIA director’s visit to USF’

**USF Health News** ‘Stress-related protein speeds progression of Alzheimer’s disease’

**USF Health News** ‘David Morgan appointed to state Alzheimer’s Disease Advisory Committee’

**CTV News (Canada)** ‘U.S. study looks into the benefits of coconut oil on patients with Alzheimer’s’

**USF Health News** ‘USF PhD graduate in neuroscience to join laboratory of new Nobel Prize winner’

**FL Business Observer** ‘Memory Lane’

**Fairfield-Sun (Connecticut)** ‘Angels’ fight to find cure for rare genetic disorder’

**The Tampa Tribune** ‘Investment in research failing to keep pace with scope of Alzheimer’s (Commentary)’

**EmaxHealth** ‘Coffee May Save Eyesight and 4 More Surprising Benefits’

**Research at USF Health** ‘Neuroscientist shares insights on learning and memory at TEDx TampaBay’

**The Washington Post** ‘Why all the fuss about coconut?’
Development

Development is identified as a major priority for the institute and a dedicated development officer works collaboratively with current staff, development volunteers and community members to gain their support for development efforts. The development program at the institute encompasses annual, special and major giving efforts. Mid-way through the year our Development Officer was promoted into the director position within the College of Nursing at USF Health. An active search is underway for a new development officer.

2014 Development Program Highlights

- Brain Research Discoveries magazine article featuring actors Seth Rogen and wife Lauren Miller, and their support of the Byrd Institute and campaign to raise awareness of Alzheimer’s to the younger generations.
- Faculty/Staff campaign culminated in 36% participation
- Hosted USF Town & Gown Luncheon and Tour with approximately 40 guests
- Alzheimer’s & the Arts fundraiser event to showcase the arts and how they improve the lives of those with Alzheimer’s. The event included an online auction, entertainment by Byrd Institute faculty and a special performance by jazz pianist and singer Lillette Jenkins-Wisner—who was diagnosed with Alzheimer’s at the Byrd Institute.

Development Statistics

<table>
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<th></th>
<th>2011/2012</th>
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<th>2013/2014</th>
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<tr>
<td><strong>BYRD INSTITUTE ENDOWMENT</strong></td>
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<td></td>
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<tr>
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<td>$5,478,384.00</td>
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<td>*Endowment return</td>
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<td>13.1%</td>
<td>19.5%</td>
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<tr>
<td>Market value</td>
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<td><strong>ENDOWMENT SPENDABLE EARNINGS</strong></td>
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<tr>
<td>Beginning balance</td>
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<tr>
<td>Deposits</td>
<td></td>
<td></td>
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<tr>
<td>Expenditures and transfers</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Current balance</td>
<td></td>
<td></td>
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<tr>
<td><strong>OPERATING FUNDS</strong></td>
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<tr>
<td>Beginning balance</td>
<td>$867,079.65</td>
<td>$884,399.54</td>
<td>$1,740,334.00</td>
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<td>Spendable gifts</td>
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<td>$1,213,465.40</td>
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<td>Earnings</td>
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<td>Expenditures and transfers</td>
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<td>Current balance</td>
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<td>$1,830,705.00</td>
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<td><strong>PLEDGED FUNDS</strong></td>
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<td>State match</td>
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<td>$0</td>
<td>$0</td>
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<tr>
<td>Pledged gifts</td>
<td>$13,077.77</td>
<td>$8,499</td>
<td>$0</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.
Faculty Achievement

Peer-Reviewed Publications by Institute Faculty in Fiscal Year 2014


**Invited Presentations**

2. Banko, J. Alzheimer’s disease: where we’ve been and where we are going. NARFE Meeting. Plant City, FL Oct. 2013
3. Cao, C. Plenary Talk Award: 2014 International Conference on Complex Medical Engineering, Taipei, Taiwan 2014
31. Morgan, D. Fractalkine and Arginase 1 expression reduce the tau phenotype in rTg4510 mice. 2nd International SFB TRR 43 Symposium. Potsdam Germany May 2014.
36. Weeber, E. Angelman Syndrome Australia Conference, Sydney, Australia. (Keynote Speaker) Activity-dependent changes in the Angelman Syndrome Mouse Model Nov. 2013
40. Weeber, E. Current Advances in Angelman Syndrome Research Plenary Lecture Foundation for Angelman Syndrome
41. Weeber, E. What we know about the human brain. TEDx, Tampa Bay Convention Center, Tampa, FL. May. 2014
43. Weeber, E. A Game of Neurons – understanding Human learning and memory. Pint of Science Festival, Tampa, FL. May 2014

Conferences Attended by Institute Faculty in Fiscal Year 2014

1. Alzheimer’s Association International Conference, Boston, MA
2. Alzheimer’s Association International Conference, Copenhagen, Denmark
3. AD/PD International Conference, Florence, Italy
4. American Society for Neural Therapy and Repair, Clearwater Beach, FL
5. American Society of Veterinary Surgery, Clearwater FL
6. Angelman Convention, Soest, Germany
7. Angelman Syndrome Association Australia Conference; Sydney, Australia
8. Angelman Syndrome Association of Spain Conference, Madrid, Spain
9. Apolipoprotein Receptor Minisymposium, Lexington, KY
10. BioFlorida annual meeting, Tampa FL
11. Human Amyloid Imaging; Miami, FL
12. International Clinical Research Center and USF Health Alzheimer’s Institute Cooperative Agreement and Research Collaboration Prague & Brno, Czech Republic
13. Society for Neuroscience; San Diego, CA
14. Florida Healthcare Affordability Summit, Orlando, FL
15. Foundation for Angelman Syndrome Therapeutics Global Summit, Chicago, IL
16. Foundation For Angelman Syndrome Therapeutics Australia Conference, Melbourne, Australia
17. Pint of Science Festival, Tampa, FL
18. Prolyl Isomerase Conference, Halle, Germany
19. TEDx, Tampa Bay Convention Center, Tampa, FL
20. 2nd International SFB TRR 43 Symposium, Potsdam, Germany
21. 19th Annual International Fall Stereology Workshop, San Diego, CA
22. 19th Annual Midwest Stress Response and Molecular Chaperone Meeting, Evanston, IL
23. 2014 International Conference on Complex Medical Engineering, Taibei Taiwan
News Media Interviews and Commentary by Institute Faculty and Staff in Fiscal Year 2014

18. Smith, A. (2014, June). “Alzheimer’s study seeking 1,000 participants.” FOX13 (Tampa) TV Interview