1. Executive Summary
The Brain Imaging Council (BIC) provides exceptional programs and educational activities at the Annual SNMMI meeting every year. This result has been achieved via interest in the use and expansion of amyloid, tau and dopamine transporters as diagnostic tools and biomarkers, especially in dementia and other neurodegenerative diseases, as well as a continued interest in FDG PET. The plan for 2016-2017 is aimed at pursuing and consolidating this trend by backing it with appropriate educational activities.

2. Mission of the Council
The BIC exists to educate, develop and advance clinical and research applications of nuclear brain imaging. This is achieved through organizing research symposia, sponsoring educational courses, supporting the Society in developing policy positions for brain imaging applications, training, and fostering connections among Council members and resources for meeting educational, clinical, and research needs for successful brain imaging. The BIC seeks to benefit a range of nuclear medicine professionals from nuclear medicine specialists in hospital or the private practice of nuclear medicine, nuclear medicine technologists, and investigators with interest in the research and clinical application of brain. The overall mission of the Brain Imaging Council is to:
   a. provide a forum for members with similar interests
   b. provide to membership expertise in brain imaging using radiopharmaceuticals
   c. foster research and education in brain imaging using radiopharmaceuticals
   d. provide outreach to other professionals and organizations
   e. nurture new membership into the Society
   f. serve as a resource to SNMMI Leadership

3. Council Leadership
The following represent the executive leadership of the Brain Imaging Council.

<table>
<thead>
<tr>
<th>Officers</th>
<th>Term</th>
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<tbody>
<tr>
<td><strong>President:</strong> Jan Booij, MD</td>
<td>June 2016 – June 2017</td>
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<tr>
<td><strong>Vice-President:</strong> Alexander Drezga, MD</td>
<td>June 2016 – June 2017</td>
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<tr>
<td><strong>Vice President-Elect:</strong> Dana Mathews, MD, PhD</td>
<td>June 2016 – June 2017</td>
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<tr>
<td><strong>Secretary:</strong> Karina Mosci, MD</td>
<td>June 2015 – June 2017</td>
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<tr>
<td><strong>Treasurer:</strong> Javier Arbizu, MD, PhD</td>
<td>June 2016 – June 2018</td>
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<tr>
<td><strong>Immediate Past President:</strong> Henryk Barthel, MD, PhD</td>
<td>June 2016 – June 2017</td>
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<th>Board Members</th>
<th>Term</th>
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<tbody>
<tr>
<td>Ming-Kai Chen, MD, PhD</td>
<td>June 2016 – June 2018</td>
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<tr>
<td>Donna Cross, PhD</td>
<td>June 2016 – June 2018</td>
</tr>
<tr>
<td>Mehdi Djekidel, MD</td>
<td>June 2015 – June 2017</td>
</tr>
<tr>
<td>Kazunari Ishii, MD</td>
<td>June 2016 – June 2018</td>
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<tr>
<td>Victor Villemagne, MD</td>
<td>June 2016 – June 2019</td>
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<th>Intern</th>
<th>Term</th>
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<tr>
<td>Lida Jafari Saraf, MD (Non-voting)</td>
<td>June 2015 – June 2017</td>
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4. Current Status
   A. Financial
   As of May 31, 2016, the BIC has a total revenue of $24,380. This includes $4,380 in member dues and a projected carryover of $20,000 from FY2015. Revenue is generated through annual membership dues, which are $15.00 per member.

   B. Membership
   As of July 1, 2016, the BIC has 300 members which includes 267 physicians and scientists, and 33 technologists. The BIC membership history for the past few years is listed below:

   BIC Membership History
   2014-2015 = 339
   2013-2014 = 267
   2012-2013 = 278
   2011-2012 = 292

   C. Member Benefits
   a. Continuing education for professionals in the various areas relating to brain imaging through sponsored symposia and continuing education courses, including a “read with the experts” session
   b. A forum and a mechanism for discussion and dissemination of information relating to the brain imaging
   c. Periodic newsletters and electronic mailings containing information on professional activities, government issues, and a host of other topics related to brain imaging
   d. Access to BIC webpages, which will contain information relating to a variety of relevant topics in brain imaging
   e. Provides expertise in brain imaging to SNMMI leadership and to groups outside of SNMMI. Representation in a number of governance groups within SNMMI, including the Committee on Councils and the House of Delegates.

5. Accomplishments for 2015-2016
   a. The primary activity of the BIC has been development of CE sessions at the SNMMI’s Mid-Winter and Annual Meetings. The BIC sponsored educational session at the 2016 SNMMI Mid-Winter meeting in Orlando, FL, as well as the following categorical session and CE sessions at the 2016 SNMMI Annual meeting in San Diego, CA:

   Categorical Session: “Brain PET/MRI- Clinical Challenges, Potential, and Workflow”

   CE Sessions:
   - “Molecular Brain Imaging Primer: Theories for Simpler Practice”
   - “Dementia PET and SPECT: Read with the Experts”
   - “Dopamine Transporter Imaging: Read with the Experts”
   - “IDEAS and AMYPAD: Validating the Clinical Utility of Brain Amyloid PET”
   - “Advances in Imaging Neuroinflammation”
   - “Brain PET/MRI: Opportunities and Challenges”
   - “Tau Imaging in Neurology (co-sponsored with the Japanese SNM)
   - “Kuhl-Lassen Award Lecture”

   b. The BIC has been working on appropriate use criteria for amyloid PET for the development of an amyloid PET guideline, as well as for promoting the IDEAS study. Education continues for proper utilization of FDG/PET, amyloid PET and dopamine transporter imaging. Well attended dementia PET session at the SNMMI 2016 Mid-Winter meeting.

   c. The BIC has been working to develop and maintain SNMMI practice guidelines in the field of neuroimaging. Amyloid practice guidelines are finalized. Ioflupane practice guidelines were completed several years ago. FDG PET brain and perfusion brain SPECT practice guidelines
are both still in place. It is planned to develop, together with the EANM, a new brain tumor imaging guideline.

d. Continued maintenance of the neuro PET and SPECT practice guidelines.

e. Support for Young Investigators in the form of a BIC sponsored Young Investigators’ scientific session at the annual meeting, with monetary award and recognition of nascent investigators.

f. BIC Intern program. The BIC supports an intern to work on projects related to brain imaging for a two-year term. Lida Jafar Saraf, MD, is the BIC intern for the 2015-2017 term.

g. Sponsorship of a downloadable reference perfusion SPECT brain perfusion data for research use by the academic community is under discussion.

h. SPECT and PET cases, potentially for CME credit for BIC members to achieve both CME and SAM accreditation.

i. BIC communications via email blasts to members, periodic newsletters, and BIC website.

6. Goals and Programs for 2016 - 2017

The BIC contributes to several goals in the SNMMI Strategic Plan. Specifically, the BIC contributes to Goal A: Advance the development and approval of nuclear medicine and molecular imaging technologies, Goal B: Facilitate and support the availability and clinical utilization of nuclear medicine and molecular imaging technologies, Goal D: Advance and promote quality, value and safety of molecular imaging and nuclear medicine, and Goal E: Support and enhance the professional workforce and environment.

a. Continue to advocate for the use of PET in the management of patients with dementia, including improved information on this topic on the BIC website, as well as improved patient information on the SNMMI CMIIT website.

b. Participate in Brain Imaging Outreach Group and the PET Center of Excellence’s PET-MR Task Force.

c. Continue to distribute information to members via email blasts, newsletters, and the BIC website.

d. The BIC will continue to co-sponsor educational sessions at both the 2017 SNMMI Mid-Winter and Annual meetings. The BIC will offer the following sessions at the 2017 Mid-Winter meeting in Phoenix, AZ:

   • Visual versus quantitative analyses of dopamine transporter imaging using 123I-Ioflupane SPECT (combined in a session with a GCNMC proposed session), January 20, 2017, 10am – 12pm.
   • Brain death update in the post-McMath era (combined in a session with a CaIC proposed session), January 20, 2017, 10am – 12pm.
   • Amyloid and tau imaging: role of quantification (combined in a session with a CaIC proposed session), January 20, 2017, 12:45pm – 2:45pm.
   • Quantitative tau imaging in neurodegenerative disease and traumatic brain injury (combined in a session with a CIC proposed session), January 20, 2017, 12:45pm – 2:45pm.

e. The BIC will submit session proposals for the 2017 SNMMI Annual meeting covering clinical applications and updates on research developments especially with regard to molecular imaging, consistent with SNMMI’s strategic MI initiative.
f. Encourage the use of quantitative brain FDG PET analysis in research and clinical practice by providing information on how to access software and normal studies for database construction.

g. Increase BIC members by promotion of the benefits of membership to the SNMMI community including an investigation of the website as a tool to provide free CME to council members.

h. Continue to advocate for FDA approval of F18-FDG use in dementia.

i. Explore possibilities for collaboration with the SNMMI clinical trials network and pharmaceutical companies to facilitate the use of FDG and amyloid tracers as biomarkers for early diagnosis and clinical trials of Alzheimer’s disease even before onset of dementia.

j. Expand advocacy and education efforts for neuroimaging to referring clinicians.

k. Develop and maintain SNMMI practice guidelines in the field of neuroimaging.

7. Budget and Resource Requirements

a. **Summary of Financial Needs**
   The attached budget summarizes the total resources needed to accomplish all of the goals set forth in the business plan.

b. **Resource Requirements**
   No additional staff, materials, technology, or marketing support is required beyond the usual support provided by SNMMI headquarters.