



Our Year in Review: The Academy's FY20 Annual Summary

The Academy's continued efforts during this challenging year are made possible by the sustained personal engagement of its members and by your financial support. As an organization underwritten almost entirely by Imaging Societies, Academic Radiology Departments, and Industry Partners, we acknowledge and are planning for tremendous financial uncertainty in the next Fiscal Year and beyond.

We hope this summary will:

- Articulate to you and your leadership that we are prepared to both sustain the Academy and remain effective and impactful during this difficult time.
- Illustrate our most recent progress and efforts.
- Secure your engaged participation and financial support for another year.

The Academy has shifted our Congressional advocacy and Member engagement efforts to a virtual platform, which has by all accounts accelerated our impact and increased participation and engagement.

Virtual Advocacy Priorities:

- Continue to raise awareness for imaging research, especially in light of COVID-19 emergency funding opportunities to develop diagnostic tools and procedures.
- Advocate for consistent federal investment in the NIH, ensuring that research is supported and sustained.
- Advocate for additional emergency funding related to COVID-19, not only to support a continuation of the current research but to prepare for future challenges.
- Advocate for additional funding needed to re-vamp the entire research enterprise.
- Communicate these efforts to our Membership, ensuring awareness across the imaging community.

Opportunities for Members of the Council of Early Career Investigators in Imaging (CECI²):

- Weekly virtual Happy Hour discussions led by an Academy officer, Board member, or NIH Institute Director. These hour-long open discussions are designed for investigators in the early stages of applying for NIH funding, and include topics that range from advocacy to publishing to career advancement to applying for an R01, and other grants.
- Development of an Academy CECI² Mock Study Section Program.
- Facilitation of connections with NIH Program staff to discuss their individual grant application progress.
- Virtual advocacy training for investigators.
- Dissemination of relevant funding opportunities.
- Enhanced engagement of our Members in opportunities for grassroots advocacy on behalf of NIH.

NEW RESOURCES FOR MEMBERS:

- **Interactive NIH funding map for Diagnostic Radiology:** <https://action.acadrad.org/data/nih-funding/>
Password: *Acadrad1001*
- **Comprehensive breakdown of NIH funding for Diagnostic Radiology for each U.S. Radiology Department:** <https://www.acadrad.org/nih-datacollection-project/>
- **An Academy COVID-19 Research Discussion Forum:** <https://www.acadrad.org/covid-19-forum/>

A YEAR IN REVIEW



“As our community faces incredible challenges posed by the COVID-19 pandemic, the Academy’s work promoting the concept of a Diagnostic Cockpit helped to position the imaging and bioengineering communities as national technology leaders in biomedical research. This opportunity has borne fruit in the form of \$560M of funding opportunities for COVID-19 related diagnostics at the National Institute for Biomedical Imaging and Bioengineering (NIBIB). In particular, the Academy, with its CIBR industry partners, has catalyzed a real-life implementation of the cockpit concept. The recently announced Medical Imaging and Data Resource Center (MIDRC) is the product of an NIBIB-funded collaboration with Academy Members (AAPM, ACR, and RSNA) that promises to provide data and infrastructure to advance

the state of COVID surveillance and diagnostics. We look forward to advocating on your behalf for consistent federal funding for COVID-19 and all other imaging-related research, as well as to facilitating meaningful discussions and collaborations to benefit our community and our members directly.” - Mitchell D. Schnall, MD, PhD, Academy President

NEW VIRTUAL CECI² OPPORTUNITIES:

When we made the decision to cancel and re-schedule our Spring Advocacy Events and Medical Imaging Technology Showcase for the Spring of 2021, the Academy developed and implemented a series of virtual events that have greatly enhanced this program in unexpected ways. The following events were designed as a temporary replacement for our Annual Events but, after gauging their immense impact, we have decided they will become a permanent part of the CECI² program moving forward.



“I am absolutely delighted to report that our Council of Early Career Investigators in Imaging Program (CECI²) is flourishing! Founded in 2014, this program educates ambitious, early career faculty on the importance of advocacy and its impact on their research. This Council’s opportunities with staff at the National Institutes of Health and Capitol Hill ensure these investigators have the tools they will need to advocate effectively for their own research. Over the years, alumni of CECI² have gone on to receive grant funding, including their first R01s, K awards, industry grants, and accept multiple academic promotions. The 2020 Council is the largest we’ve seen so far, with more than 30 members, and the postponement of the 11th Annual Medical Technology Showcase offered a silver

lining in the form of a new year-long program, composed of a series of virtual educational and networking opportunities, including personal conversations with NIH Institute Directors and key discussions with prominent Chairs of Radiology and Academy leaders. To date, CECI² brings together 119 researchers and is truly strengthening the future of imaging research.”
- Hedvig Hricak, MD, PhD Dr(hc), Academy CIBR Chair

These new program opportunities include:

- **Academy CECI² Educational Series featuring:**
 - A WebEx conference call with Dr. Bruce Tromberg and NIBIB Program Staff, covering NIBIB’s COVID-19 response, as well as details about and insights into NIBIB grant mechanisms and their review processes.
 - An Academy Virtual Advocacy Training Webinar led by Academy staff that articulated the Academy’s ongoing advocacy efforts and how CECI² members can become effective advocates of their own work in the research community, even during these trying times.

- **Bi-weekly Friday evening Academy Zoom Happy Hours**, led each week by an Academy Board member and NIH Institute Directors, such as Dr. Mitchell Schnall (Academy President & Chair, University of Pennsylvania), Dr. Hedvig Hricak (CIBR Chair & Chair, Memorial Sloan Kettering Cancer Center), Dr. Cheri Canon (Chair, University of Alabama Birmingham), Dr. Elizabeth Krupinski (VC of Research, Emory University), Dr. Etta Pisano (Academy Secretary/Treasurer & Chief Research Officer, ACR), Dr. Roderic Pettigrew (Founding Director, NIBIB) and Dr. Ruth Carlos, (Academy Vice President, University of Michigan). Upcoming discussions are slated with National Cancer Institute Director, Dr. Janet Eary, prominent Industry representatives from Canon and GE Healthcare, and Dr. Dan Sullivan, Director of the Quantitative Imaging Biomarkers Alliance (QIBA).



Dr. Roderic Pettigrew speaks to his experience as founding Director of NIBIB.



CECI² tune in to hear Dr. Ruth Carlos discuss careers in health science research and policy, as well as scholarly publications and editorship.

- Members of CECI² have identified a need and are currently developing an **Academy CECI² Mock Study Section Program**, modeled after the NIH Study Section and Scientific Review process and led by CECI² Co-Chairs Dr. Alex Goehler (Beth Israel Deaconess), Dr. Samuel Galgano (University of Alabama Birmingham), Dr. Jadranka Stojanovska (University of Michigan) and Dr. Rebecca Rakow-Penner (University of California, San Diego), as well as 2019 CECI Dr. Anna Sorace (University of Alabama Birmingham) and 2020 CECI Dr. Mariam Aboian (Yale University). This new program will leverage the collective knowledge of this Council and the extensive experience of the Academy's Membership, as they confidentially revise, review and score actual grant proposals, giving new applicants much-needed support, peer feedback, knowledge and confidence in their submissions.



“Through my experience as a member of the CECI² Council of 2018, I was able to acquire a broader view of the field of academic radiology that I had not really encountered before. I met a broad spectrum of incredible, accomplished colleagues in my class and quickly embraced the mentorship opportunities offered through the Academy. I came back in 2019 as Co-Chair elect, met more fantastic people, made new friends and learned even more about the opportunities at NIH and the importance of our voice at the Hill. As a Co-Chair in 2020, I hope to excite more aspiring scientists by making their experience even better than mine. The ever-so-quickly changing field of radiology needs highly motivated young scientists and I want to help pave their way.” - Alexander Goehler, MD, PhD, Co-Chair, Academy Council of Early Career Investigators in Imaging

The Academy continues to create ways for our investigators to engage, network and collaborate with one another regionally, by research specialty, or by topic of interest. We've created the [CECI² Resources page](#) which houses continuously updated information and opportunities, and the new [CECI² Directory](#), highlighting the focus of CECI² members' research and professional milestones, and providing an accessible way to connect with one another.

NEW CECI² RESOURCES:

CECI² Resources: <http://www.acadrad.org/ceci-resource-page/> - **password: CECI2020**

CECI² Directory: <http://www.acadrad.org/the-academys-2020-ceci-class/> - **password: CECI2020**

NEW MEMBER RESOURCES:

The Academy COVID-19 Research Discussion Forum.

This forum, created in response to requests from our Membership, meets an important collaborative need and serves as a beneficial resource to share important information on the various efforts underway to re-vamp research within the Academy Member Institutions, Departments, and Societies during the COVID-19 pandemic.

<http://www.acadrad.org/covid-19-forum/>

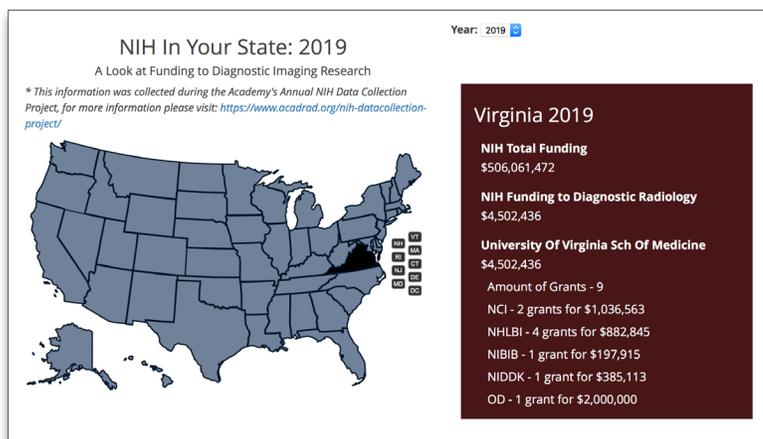


UPDATED: “NIH in Your State – A look at Funding to Diagnostic Imaging” Interactive Map:

This feature displays all the data collected and vetted during the Academy's annual NIH Diagnostic Radiology Data Collection project, and gives users a chance to review total NIH dollars by state, as well as total funding to Radiology Departments, further sorted by awarding Institute & Center at the National Institutes of Health.

<https://action.acadrad.org/client/password/login>

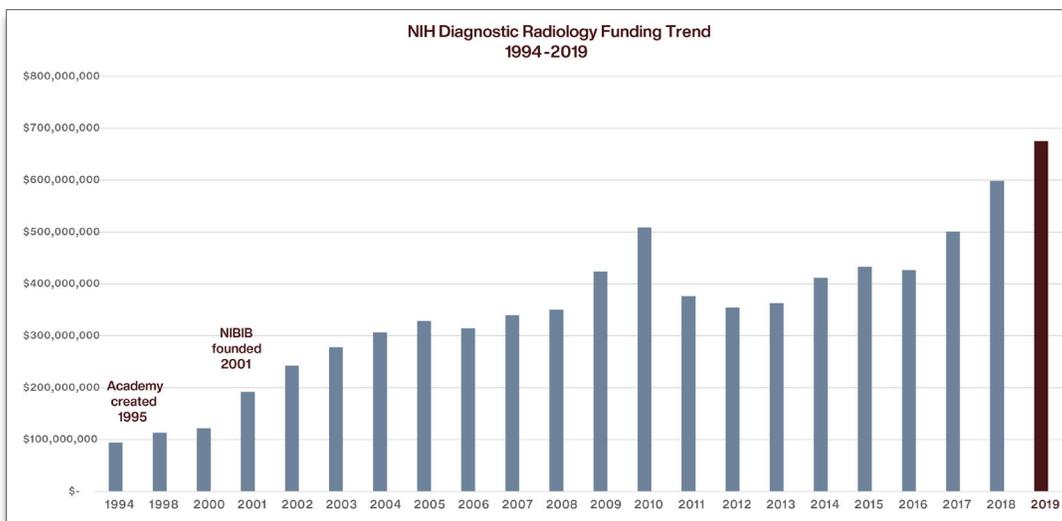
Password: ACADRAD1001



Academy's NIH Data Collection Process & FY19 Data:

For more information and documents pertaining to these changes and the FY19 Data Collection effort, please visit: <http://www.acadrad.org/nih-datacollection-project/>.

FY 2019 saw an increase of 15.4% in NIH funding to Diagnostic Radiology Research across the United States (FY19 \$691,222,041.79 vs. FY18 \$598,810,010.49).



This table reflects the overall increases in funds to Diagnostic Radiology since 1994.

After much discussion, and collaboration, about how this project intersects with the Academy’s mission and its overall value to our Membership, the Executive Committee voted to disseminate the data in a more dynamic format. The departments, now appearing in alphabetical order, will feature a breakdown that includes four categorical totals instead of overall total. With this approach, the Academy is aggregating and presenting data, but will not be making a value judgement related to credit and ranking.

Contact PI on Grant to Primary	\$557,092,507
MPI on Grant with Award to Primary org	\$49,843,452
Contact PI on Grant with award to other org	\$26,527,292
MPI on Grant with award to other org	\$24,014,854
TOTAL WITHOUT ECOG-ACRIN	\$657,478,105
ECOG-ACRIN Funding	\$33,743,936
TOTAL WITH ECOG-ACRIN	\$691,222,041

This table reflects the overall totals of the four represented categories of data. Each department included in our data collection have their own unique totals.

ACADEMY’S 2020 DISTINGUISHED INVESTIGATORS COUNCIL AWARDEES:

The Academy is pleased to announce that thirty-nine researchers have been selected to receive the Academy’s 2020 Distinguished Investigator Award. This prestigious honor recognizes individuals for their outstanding contributions to the field of medical imaging.



“The Distinguished Investigators represent the future of research in radiology, advancing the field and developing ways to significantly improve patient care through imaging.”

- Elizabeth A. Krupinski, PhD, Co-Chair of the Council of Distinguished Investigators.

2020 DI Announcement: <http://www.acadrad.org/wp-content/uploads/2020/07/Academy-Council-of-Distinguished-Investigator-Announcement-6.1.20-1.pdf>

CIBR UPDATES:

The Academy’s DxCP Initiative: <https://www.acadrad.org/dxcp/>

The Medical Imaging Data Resource Center (MIDRC)

Three of the Academy’s founding member societies, the Radiological Society of North America (RSNA), the American College of Radiology (ACR), and the American Association of Physicists in Medicine (AAPM), are working together to create the new Medical Imaging and Data Resource Center (MIDRC), an open access database that will collect, annotate, store and share medical images from tens of thousands of coronavirus (COVID-19) patients. Funded under the National Institutes of Health, this multi-institutional collaboration will be helmed by the National Institute of Biomedical Imaging and Bioengineering (NIBIB). **“The knowledge and technological advancements this registry can enable, will ultimately help providers save lives.”** said Academy Officer, Dr. Etta Pisano, one of the initiative’s collaborators.



The features of infected lungs and hearts seen on medical images can help assess disease severity, predict response to treatment, and improve patient outcomes. However, a major challenge is to rapidly and accurately identify these signatures and evaluate this information in combination with many other clinical symptoms and tests. The MIDRC goals are to lead the development and implementation of new diagnostics, including machine learning algorithms, that will allow rapid and accurate assessment of disease status and help physicians optimize patient treatment.

“This major initiative responds to the international imaging community’s expressed unmet need for a secure technological network to enable the development and ethical application of artificial intelligence to make the best medical decisions for COVID-19 patients,” added Krishna Kandarpa, M.D., Ph.D., director of research sciences and strategic directions at NIBIB. “Eventually, the approaches developed could benefit other conditions as well.”

Full Statement via NIBIB: <https://www.nih.gov/news-events/news-releases/nih-harnesses-ai-covid-19-diagnosis-treatment-monitoring>

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