



Changes Tracked Over A Decade - Grant Portfolio

Radiation Research Program (NCI – Extramural)

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Background

- The Radiation Research Program (RRP) is responsible for NCI's clinically-related extramural radiation research program. The RRP establishes priorities, allocates resources, and evaluates the effectiveness of such radiation research being conducted by NCI grantees.
- The RRP coordinates its activities with numerous radiation research programs at NCI, NIH, other Federal agencies, national and international research organizations. They provide a focal point within NIH for extramural investigators concerned with clinically related radiation research.
- RRP is divided into three branches: The Radiotherapy Development Branch (RDB), the Clinical Radiation Oncology Branch (CROB) and the Molecular Radiation Therapeutics Branch (MRTB).
- As part of ongoing efforts to stimulate research in radiotherapy and radiation biology, the RRP supports basic, translational, and clinical research at the Division of Cancer Treatment and Diagnosis (DCTD).
- The primary responsibility of RRP is to the grantees and contractors of NCI and NIH awards.

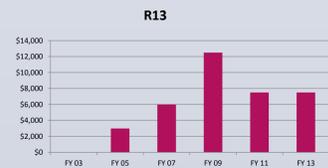
How are RRP grant dollars allocated by Activity?

- Clearly the awards are shifting from large awards to smaller grant awards for the RRP. Small grants include: R-03s, R-13s and R-21s.
- The grand total of funding awarded each year for RRP has significantly declined since 2005. Why is that?

RRP Grant Mechanisms by Dollars for FY 2005-2013
Competing and Non-Competing Grants

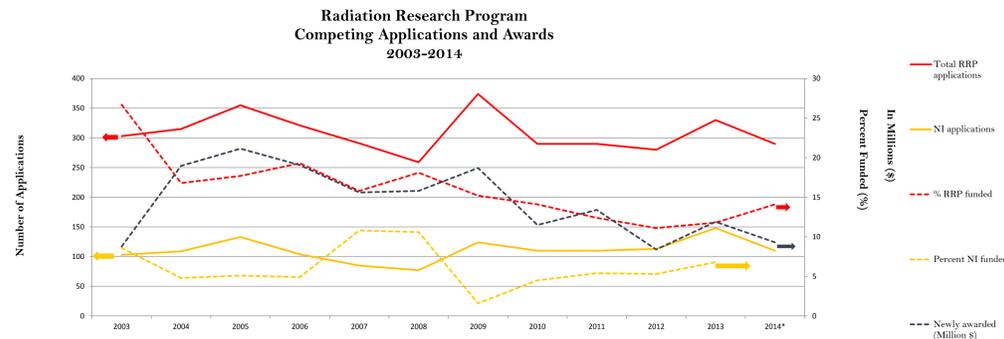
| | P-01 Research Program Projects | R-00 Pathway to Independence Award | R-01 Research Project | R-03 Small Research Grants | R-13 Conference Grants | R-15 Academic Research Enhancement Award (AREA) | R-21 Exploratory Grants | R-33 Developmental Grants Phase II | R-37 MERIT Award | R-41 to R-44 SBIR/STTR | U10-S4 Cooperative Agreements | Grand Totals |
|------|-----------------------------------|---------------------------------------|--------------------------|-------------------------------|---------------------------|----------------------------------------------------|----------------------------|---------------------------------------|---------------------|---------------------------|----------------------------------|--------------|
| 2005 | \$32,233,604 | N/A | \$41,571,365 | N/A | \$3,000 | N/A | \$1,356,068 | \$497,006 | \$453,381 | \$4,940,046 | 7,863,504 | \$88,917,974 |
| 2007 | \$22,696,055 | N/A | \$38,589,498 | \$73,853 | \$6,000 | \$206,000 | \$3,161,577 | \$540,153 | \$449,089 | \$5,294,109 | \$8,440,169 | \$79,456,503 |
| 2009 | \$18,884,398 | \$0 | \$45,589,668 | \$0 | \$12,500 | \$0 | \$2,421,869 | \$73,853 | \$284,328 | \$479,037 | \$8,371,827 | \$77,328,547 |
| 2011 | \$8,935,659 | \$0 | \$43,378,810 | \$0 | \$7,500 | \$473,745 | \$4,786,237 | N/A | \$275,798 | N/A | \$5,739,654 | \$63,597,403 |
| 2013 | \$6,249,382 | \$468,050 | \$36,396,646 | \$518,672 | \$7,500 | \$453,000 | \$2,710,183 | N/A | \$280,552 | N/A | \$4,214,729 | \$51,298,714 |

* RC1 and RC2 not shown here, included in Grand Total



Why has the funded amount of RRP's grant awards declined?

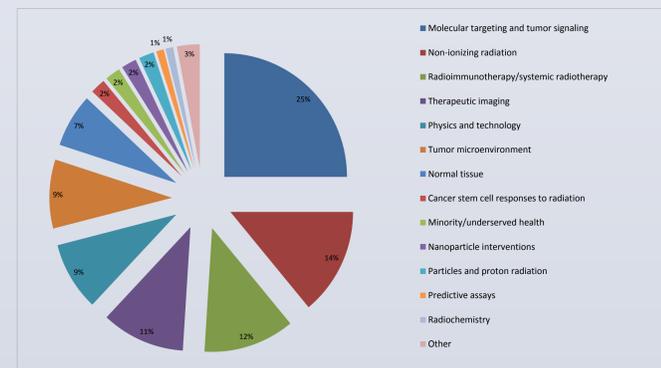
- The total number of applications submitted through RRP annually for awards has not changed. In addition, the number of New Investigators (NI) applying for grants through RRP has not seen any significant changes.
- The percentage of RRP's New Investigators receiving awards dropped by 10% in 2009 and is slow to come back up.
- The overall percentage RRP grants being funded (competing and non-competing) continues to decrease gradually.



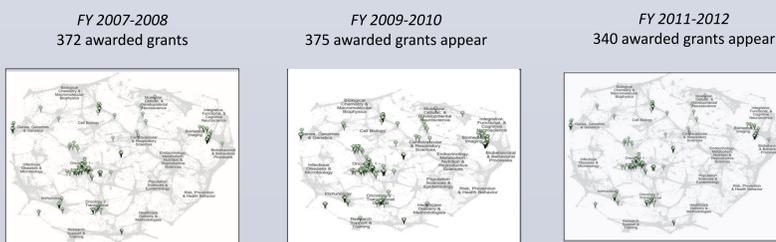
Has the science in our RRP portfolio changed over time?

- RRP research areas have expanded over the years but still remain a small percentage (~2%) in NCI's grand scheme of special interests.

Radiation Research Program Distribution of Awards by Topic FY 2013



How does RRP's portfolio map to the NIH portfolio?



Integrated Review Groups - NIH Maps

Are other NIH ICs supporting similar projects ("radiation ionizing," or "radiotherapy") to those in our portfolio?

| NIH ICs | 2013 Awards |
|---------|--------------------------------------------------|
| FIC | Fogarty International Center \$72,586 |
| NIAID | NIAID Extramural Activities \$464,250 |
| NIBIB | Biomedical Imaging & Bioengineering \$595,024 |
| NIDCR | Dental and Craniofacial Research \$2,095,778 |
| NIEHS | Environmental Health Services \$190,488 |
| NIGMS | General Medicine Sciences \$328,632 |
| NINDS | Neurological Disorders and Stroke \$651,694 |

Conclusion

- Each year over the past 10 years, the number of applications submitted through RRP annually remains consistently high, whereas the number of awards funded remain low amongst New Investigators and for the program overall. Clearly the awards being funded are shifting from large awards to smaller grant awards. Small grants include: R-03s, R-13s and R-21s.
- Last year, in 2013 close to 4 million dollars went towards other NIH ICs who share the same interests as the Radiation Research Program: "radiotherapy," and "ionizing radiation."
- After looking at the NCI Funded Research Portfolio, it also remains true that NCI's 8 billion dollar grants budget is moving towards areas like: Biochemical Epidemiology, Bioengineering, Cancer Survivorship and Behavioral and Social Science.

References

The Radiation Research Program's grant portfolio data for FY 2003 to FY2013 has been examined using Query View Report (QVR), Research Portfolio Online Reporting Tools (RePORTER), and the NCI Funded Research Portfolio (NFRP).

Acknowledgements

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