NHGRI Training Task Force

Presentation to NHGRI Advisory Council

Wendy Chung & Jeff Struewing (Co-chairs)

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Task Force Members

- Jeff Struewing (co-chair)
- Wendy Chung (co-chair)
- Jonathan Pritchard
- Carol Bult
- Bruce Birren
- Tina Gatlin (executive secretary)
- Alex Raphael (program analyst)
- Heather Colley
- Joy Boyer
- Bettie Graham (ex officio)



NHGRI Training Task Force

- Charge
 - Evaluate the Institute's current extramural training efforts
 - o Identify potential growth areas
- Operation
 - o Formed in June 2019 and met by teleconference



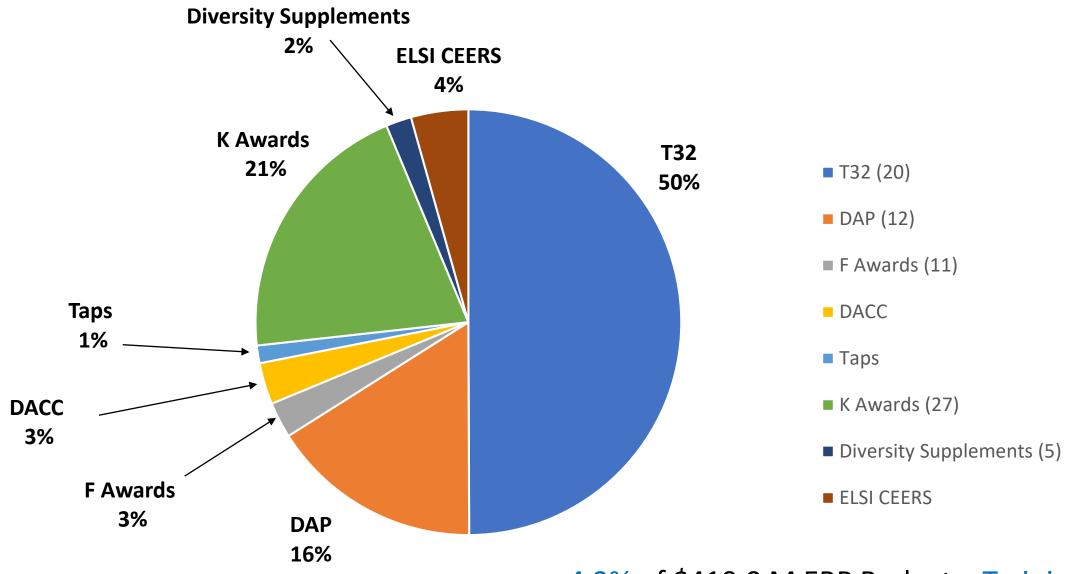


NHGRI Training Task Force

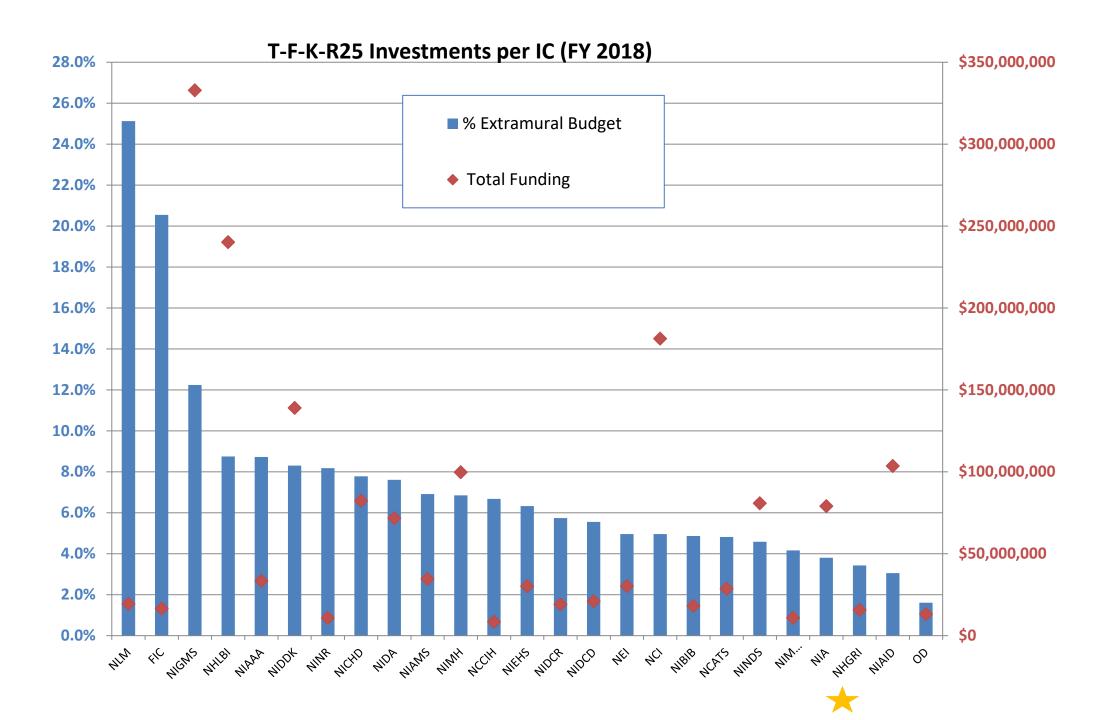
- Input
 - NHGRI's current portfolio
 - Training-related info from strategic planning meetings
 - The Intersociety Coordinating Committee for Practitioner Education in Genomics (ISCC)
 - Feedback from ~30 colleagues who work in the academic extramural research and industry environments to a set of questions that we posed to them
 - Closed session discussion at Sep 2019 NACHGR meeting



FY18 Training Awards = \$17.3 M



4.2% of \$410.0 M ERP Budget = Training



Core principles for training in genomics and data interpretation and in ELSI issues

- Diversity/Inclusivity
- Multi-disciplinary
- Modular and Just-in-Time Training Curricula
- Data and Knowledge Democratization
- Foundational Knowledge

- An increase of 2-3% to a total of ~ 6% of the extramural budget over the next 5-10 years would put NHGRI near the median of other ICs.
- \$6-\$8M (1.5-2%) increase over 5 years
- Reevaluation and eventual increase of another \$2-\$4M (0.5-1%) within 10 years



1. Increase funding for T32, F, and K grants and URM initiatives. (URM, K- & F- grants > T32)

- Doubling of F-awards (currently <\$500K/year)
- 50% increase in DAPs and K-awards
- 17% increase in T32s



- 2. Develop/expand training of ABMGG Laboratory Genetics and Genomics and other fellows, genetic counselors, nurses, and other groups in genomics and ELSI research methodology
- 3. Develop/expand efforts in data science and bioinformatics researchers, particularly among women and under-represented minority populations
- * * * \$1M pilot programs



4. Develop and disseminate modular training materials & genomics curricula for various career levels

~ \$1M pilot programs



5. NHGRI staff should set ambitious goals and milestones both with regard to the number and size of awards, but also to increasing representation of women and under-represented minority populations.



Action taken

- NHGRI joined the MOSAIC K99/R00 FOA.
- Done acting on the task force recommendation to increase support for diversity and K awards.
- The objective of the MOSAIC K99/R00 is to enhance workforce diversity by facilitating the transition of postdoctoral researchers from diverse backgrounds from their mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions at research-intensive institutions.



Discussion



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