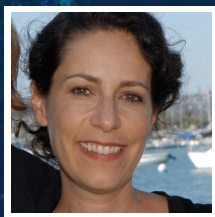


Decoding the Immune System's Protective Abilities



Ananda Goldrath
Professor, Molecular Biology

CURRENT RESEARCH

Basic research that underlies the possibility of better vaccines in the future

Vaccines have been the most effective medical intervention of our time. Take for instance the eradication of small pox. However, there are many diseases for which conventional strategies for vaccine design have not been successful. Dr. Ananda Goldrath, Professor of Molecular Biology at the University of California, San Diego, is investigating new ways to induce the immune system to provide protection from infections and eradicate malignancies. By decoding the genetic instructions that direct the immune system to remember past encounters with pathogens and provide robust protection from reinfection, she and her team are making strides towards understanding the fundamental knowledge necessary for advancing medicine. In short, they are advancing discoveries that will ultimately lead to vaccines for diseases for which there are currently current strategies for designing vaccines have not been successful such as malaria, tuberculosis, and HIV.

With numerous important findings in the pipeline, Dr. Goldrath's team is only limited by the funding that controls the amount of personnel that can work on any given project. She explains, "new discoveries are around the corner everyday" as she and her team focus on the most fundamental questions of T cell immunity and interact with many colleagues around the world with ranging expertise. Dr. Goldrath adds an unparalleled molecular approach to the conversation surrounding immunity. She and her team have put together many tools that allow them to answer questions that are at the center of solving how to make good immunity for both infectious diseases and malignancy. Therefore, it is Dr. Goldrath's hope that through the fundamental work produced in her lab, she may provide...

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AFFILIATION

 University of California, San Diego

EDUCATION

- Ph.D., in Immunology, 2000 , University of Washington

AWARDS

- Leukemia Lymphoma Scholar 2011-2016
- Pew Scholar 2007-2011
- Cancer Research Institute, New Investigator Award 2005-2009
- V Foundation, Scholar Award 2005-2007
- Irvington Institute Postdoctoral Fellowship, Juvenile Diabetes Research Foundation (2001-2004)

RESEARCH AREAS

Life Science, Immunology / Inflammatory, Infectious, Oncology / Cancer

FUNDING REQUEST

Your contributions will support the continued research of Dr. Ananda Goldrath, at the University of California, San Diego, as she makes discoveries that will yield the know-how to improve vaccines and fight tumor growth. Donations will fund the necessary \$60K/month required for personnel, maintaining mouse models, and sophisticated equipment. Dr. Goldrath's experimental approaches are made possible by her excellent graduate students and postdocs; help fund their salaries to contribute to life-giving research.