Testimony of Beth A. Garvy, Ph.D., on behalf of The American Association of Immunologists (AAI), Submitted to the House Appropriations Subcommittee on Labor, Health and Human Services, Education, and Related Agencies, Regarding the Fiscal Year 29 Budget for the National Institutes of Health April 24, 2018

The American Association of Immunologists (AAI), the nation's largest professional society of research scientists and physicians who study the immune system, respectfully submits this testimony regarding year (FY) 29 appropriations for the National Institutes of Health ANIHEL commends an appropriation for NIH of at least \$9.3 billion for FY 209 to enable NIH to funditically important new and ongoing biomedical research; the next generation of biomedical research least professure continued robust vestment in this tional priority are as a result of generous support from this subcommittee and Congressent years IHH has continued to make great strides in advancing urgently needed the dicalesear clasupporting alented sciential sciential sciential who want to the United States of providing hope to all who are afflicted by illness or disabil

Whythe Immune System and Whylmmunologs to are Essential

RecentmmunologicaDiscoverieand their Impact on Prevent and Fighting Disease

Cancer immunotherapy - Canceimmunotherapy, which harnesses the immune system to fight tumors, is revolutionizing cancer treatment. Becausande Ni Helsearch, several new immuno-

overonemonth, in contrasto previous la vailable accine sy hich require three doses versix months, this new vaccine nay be a valuable of in the effort to improve vaccination at esand the refore revent infection with, and death from, HBV.

Artificial pancreas for type 1 diabetes-Type 1 diabetes (T1D) is an autoimmune disease that affects over 1.25 million Americans, including 200,000 th Representation of the control of the

for NIH particularly through the timely passage of annual appropriations stills not be the nation's biomedical research enterprise and determined within the scientific community

Conclusion

AAI greatly appreciatesesthocommitted congstanding leadership and strong bipartisan support for NIH and biomedical resettmentughregular propriations and supplementary funds to support 21st Century Cures Actinitiatives AAI urges the subcommittee to continue to strengthen NIH's ability to support research that is critical to human health by appropriated 39.3 billion for NIH for FY 2019.

¹ Maude, S. L. et 2014. Chimeric antigen receptor T cells for sustained remissions in leukemia.371 Engl. J. Med. 1507-1517; Zhong, X. S. e2010. Chimeric antigen receptors combining 4-1BB and CD28 signaling domains augment PI3kinase/AKT/B&L activation and CD8+ T-cell