2022 G. Lombard Kelly Lecture

Dr. Irina Conboy

March 24, 2022

Dr. Irina Conboy is a leading expert in the field of aging, stem-cells, and rejuvenation research. She is best known for her pioneering work using heterochronic parabiosis to identify circulating factors that contribute to tissue maintenance and repair. This highly cited work, published in 2005 in *Nature,* has had a tremendous impact on the field of rejuvenation biology. It has increased understanding of the role the stem-cell environment has in maintaining and repairing adult tissues *in-vivo*. More recently, Dr. Conboy published findings in the journal *Aging* showing that old tissue could be rejuvenated through the replacement of blood plasma with saline and albumin to improve brain, liver, and muscle tissue. Dr. Conboy's current work is focused on small animal blood exchange devices, brain inflammaging, and CRISPR-nanoparticles to discover potential therapeutics for several diseases. She has garnered considerable recognition for her research including the Silicon Valley Foundation Award for Clinical Translation of Aging Research, Open Philanthropy Award, Packer Endowment for Aging Research, Raymond and Beverly Sackler TAU award, and Calico Award Bridging the Gap, Rogers' Award, SENS Foundation and Life Extension Foundation, W.M. Keck Foundation Award, Glenn Award for Research in Biological Mechanisms of Aging, and Ellison's Medical Foundation New Scholar in Aging award. Over her career, Dr. Conboy's work has been cited more than 10,000 times and she has mentored more than 50 pre- and post-doctoral fellows. Dr. Conboy earned her PhD in Molecular and Cellular Immunology from Stanford University.

At the time of the Kelly Lecture, Dr. Conboy was Professor of Bioengineering at the University of California, Berkley, California.