

In memory of our founder Dr. Kallam Anji Reddy

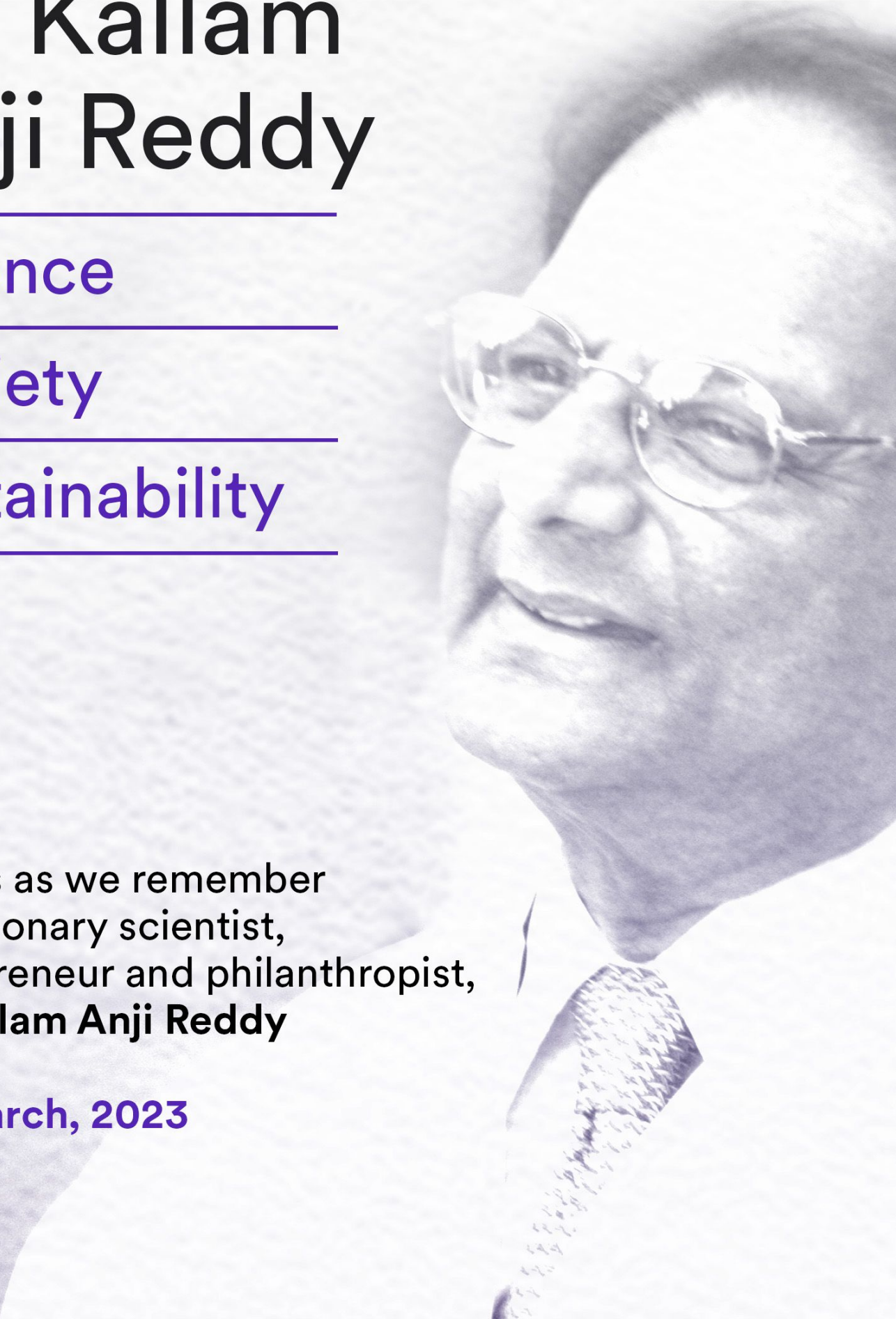
Science

Society


Sustainability

Join us as we remember
the visionary scientist,
entrepreneur and philanthropist,
Dr. Kallam Anji Reddy

15th March, 2023



Program

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- 9:30 AM Lamp Lighting
- 9:35 AM Welcome Address by **G V Prasad**
MD & Co-Chairman of Dr. Reddy's Laboratories
- 9:45 AM Remembering Dr. K. Anji Reddy
- 9:50 AM Keynote Address by
Dr. K. VijayRaghavan
Former Principal Scientific Advisor,
Government of India
- 10:10 AM **Dr. Kallam Anji Reddy Memorial
Lecture** by **Professor Ada E. Yonath**
Nobel Laureate,
Weizmann Institute, Israel
- 11:00 AM **Dr. Swami Subramaniam**
CEO, Ignite Life Science Foundation
- 11:20 AM Concluding Remarks
by **Satish Reddy**
Chairman of Dr. Reddy's Laboratories

Dr. Kallam Anji Reddy

Memorial Lecture



Professor Ada E. Yonath
(Nobel Laureate in
Chemistry, 2009)

Department of Structural Biology,
Weizmann Institute, Israel

From origin of life to next generation RNA-based therapeutics

The site for peptide bond formation in the ribosomes, the Peptidyl Transferase Center (PTC), is located within a highly conserved internal pocket made exclusively of rRNA. The high conservation implies its existence irrespective of environmental conditions and indicates that it may represent a prebiotic RNA machine, which could be the kernel around which life originated. Lab constructs imitating this pocket possess capabilities for peptide bond formations, thus indicating that a molecular prebiotic bonding entity still exists and functions within ribosomes of all living cells.

In contrast, other ribosomal components undergo genetic variability that led to the creation of specific structural features. Among them, those related to ribosomal genetic diseases, or specific to antibiotic-resistant pathogens, are being used as the basis for design of RNA-based next generation therapeutics.