

**“The Onassis Foundation
Science Lecture Series 2019
in Biology and Chemistry”**

“Genome Editing”

Heraklion, Crete, July 08 - 12, 2019

Monday 08 July	09:15 - 10:00	Registration
	10:00 - 10:15	Welcome
	10:15 -11:30	“CRISPR Systems: From Adaptive Immunity to Genome Editing”, by Jennifer Doudna
	11:30 -12:00	Break
	12:00 -13:15	“Control of CRISPR Systems in Bacteria and in Biotechnology”, by Jennifer Doudna
	13:15 -14:30	Lunch Break
	14:30 – 15:45	“Cryo-EM studies of CRISPR systems”, by Eva Nogales
Tuesday 09 July	09:30 -10:45	“Zinc Finger Nucleases: The Technology that Launched Genome Editing”, by Srinivasan Chandrasegaran
	10:45 -11:15	Break
	11:15 -12:30	“Genome Engineering of Disease-specific Human Induced Pluripotent Stem Cells”, by Srinivasan Chandrasegaran
	12:30 -14:00	Lunch Break
	14:00 – 15:15	“Practical issues in genome editing”, by Dana Carroll
Wednesday 10 July	09:30 -10:45	“Application of double-strand break repair for gene editing and genome rearrangements”, by Maria Jasin
	10:45 -11:15	Break
	11:15 -12:30	“Homologous recombination mechanisms and programmed double-strand breaks”, by Maria Jasin

	12:30 – 14:00	L u n c h B r e a k
	14:00 – 15:15	“Clinical applications and societal ramifications of genome editing”, by Dana Carroll
	20:00	“Genome Editing: Rewriting the Code of Life”, by Jennifer Doudna - PUBLIC LECTURE (in English)
Thursday 11 July	09:30 -10:45	“Structure and Dynamics of the Human Transcription pre-initiation complex”, by Eva Nogales
	10:45 -11:15	B r e a k
	11:15 -12:30	“The Bacterial Origins of the CRISPR Genome Editing Revolution.”, by Erik Sontheimer
	12:30 – 14:00	Lunch Break
	14:00 – 15:15	“Gene drive technology for vector control; from concept to the field”, by Andrea Crisanti
Friday 12 July	09:30 -10:45	“Sex distorters; natural occurring and synthetic ones” by Andrea Crisanti
	10:45 -11:15	r e a k
	11:15 -12:30	“A novel Zinc-Finger Nuclease design for in vivo genome editing in tomato”, by Zoi Hilioti
	12:30 – 12:45	“CRISPR applications in Human retina organoids” by Kiara Eldred
	12:45 – 14:00	Lunch break
	14:00 -15:15	“Compact Cas9s for Genome Editing in vivo”, by Erik Sontheimer
	15:15 – 15:30	Closing remarks