



# ICGEB

International Centre for Genetic  
Engineering and Biotechnology

Developing  
Knowledge

## ICGEB International SEMINAR PROGRAMME 2017

Monday, 8 May 2017 | 12:00 noon | ICGEB Seminar Room, W building | Padriciano, 99, Trieste, ITALY



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In 2003, coinciding with the 50th anniversary of Nature's publication of Watson and Crick's description of the DNA double helix, the International Consortium announced the successful completion of the Human Genome Project. However, since most of our genes are split, continuously interrupted by intervening intron sequences, only less than 10% of all DNA can be transcribed into mRNA without further pre-mRNA processing, i.e. intron removal. Deciphering the splicing code is the major challenge nowadays. By compiling hundreds of thousands of used and putatively unused U1 snRNA binding sites it was very soon realized that U1 snRNA complementarity is required but not sufficient to mark a 5' exon end. Additional neighboring protein binding sites are required to position U1 snRNA at a 5' splice site. By analyzing splicing outcome of 5' splice site alterations including human pathogenic mutations we are aiming at deciphering the splicing code. Our wet lab analyses are supported by bioinformatics to identify functional protein binding sites and determine their contribution to 5' splice site selection.

## ***“Complexity of accurate splice site recognition in the Human Genome”***

*Host: E. Buratti*

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Open event - Free entrance



More information at:

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