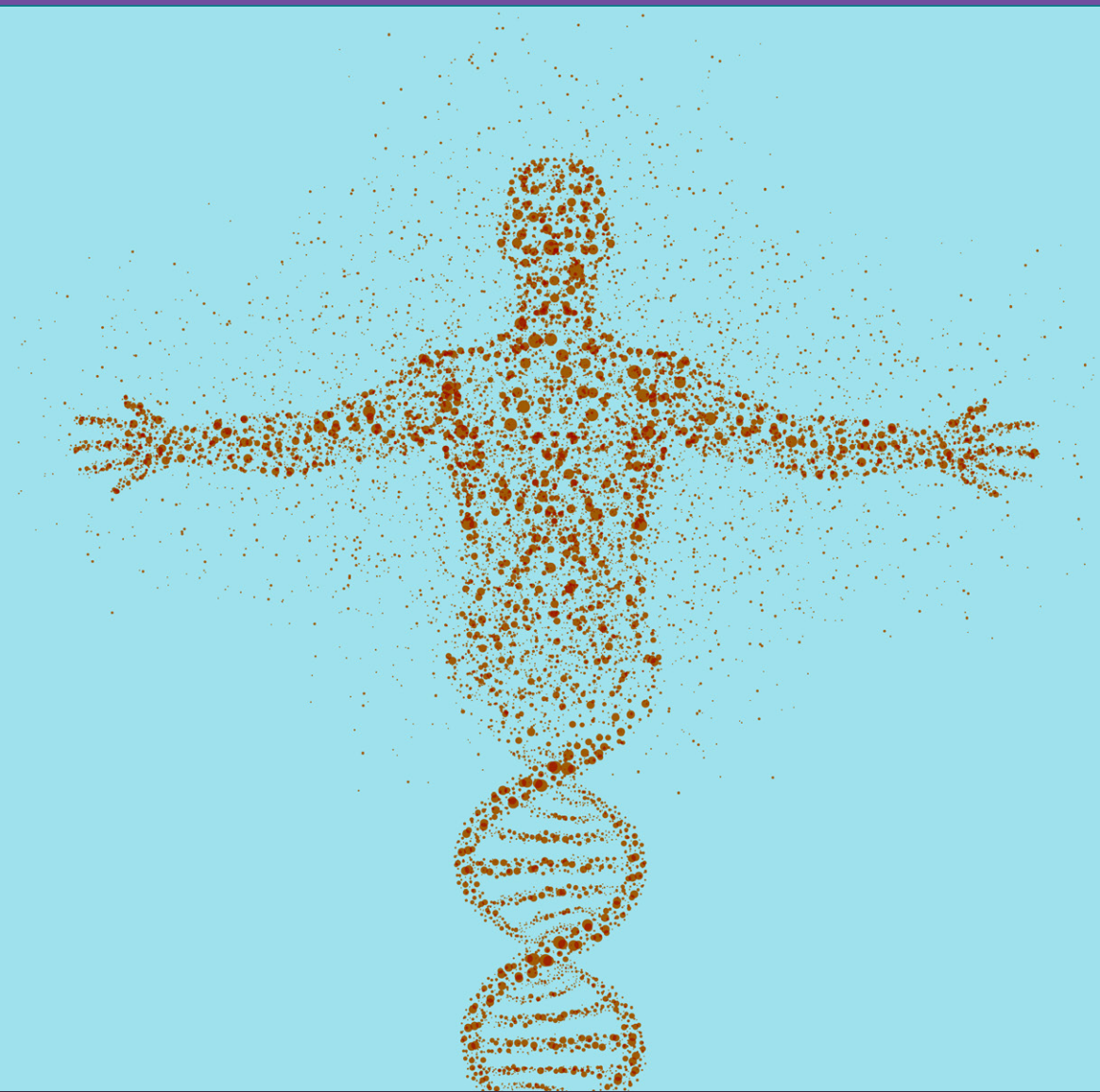
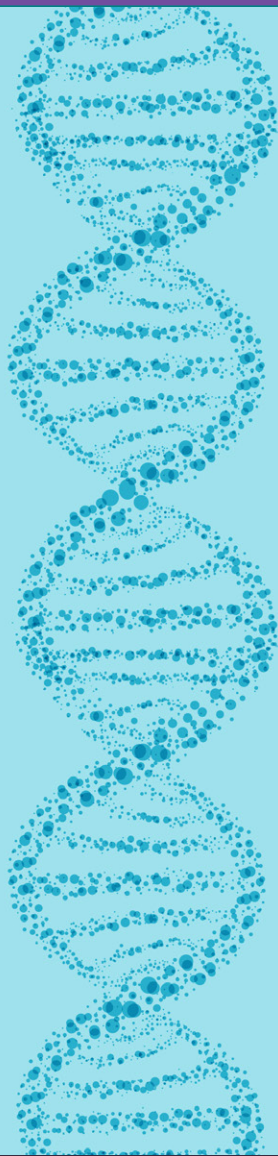


Genes, Research and Disease: Discovering Genomics for the Classroom

12-14 September 2018, University of Malta, Malta



ELLS LearningLAB

European Learning Laboratory for the Life Sciences

EMBL



Draft Programme

12. 9. 2018	Day 1 - WEDNESDAY	Location
13:30 – 15:30	Visit to Malta Life Sciences Park <i>This part of the course is optional.</i>	Malta Life Sciences Park, San Gwann, Malta
15:30 – 16:00	Registration and coffee	Mater Dei Hospital, Msida, Malta
16:00 – 16:10	Welcome, Dr Stephanie Bezzina Wettinger, Head of Department Of Applied Biomedical Sciences, University of Malta	Mater Dei Hospital, Msida, Malta
16:10 – 16:30	Introduction to course, EMBL and collaborating organisations	Mater Dei Hospital, Msida, Malta
16:30 – 17:15	Ice-breaker activity	Mater Dei Hospital, Msida, Malta
17:15 – 18:00	Presentation 1: Development of genome engineering, Dr. Lucas Chaible, EMBL Heidelberg	Mater Dei Hospital, Msida, Malta
18:45 onwards	Light buffet and get-together	Location TBC
13. 9. 2018	Day 2 - THURSDAY	
09:30 – 10:30	Presentation 2: “Historic development and future of genome sequencing”, Malcolm Pace, University of Malta	Mater Dei Hospital, Msida, Malta
10:30 – 10:45	Coffee Break	
10:45 – 12:15	Lab practical - “Detection of a genetic disorder”: introduction, sample preparation, PCR	Mater Dei Hospital, Msida, Malta
12:15 – 13:15	Lunch	
13:15 – 14:30	Lab practical - “Detection of a genetic disorder”: restriction digest and gel electrophoresis, analysis of results	Mater Dei Hospital, Msida, Malta
14:30 – 17:00	Visit to Esplora Interactive Science Centre	Villa Bighi, Triq Marina, Il-Kalkara, Malta
17:00 – 19:00	Free time	
19:00	Course dinner	Location TBC
14. 9. 2018	Day 3 - FRIDAY	
09:00 – 09:45	Presentation 3: “Genetic variations in the human genome and personal genomics/ Exploring genome sequences to learn about human diseases”, Dr. Joseph Borg, University of Malta	Mater Dei Hospital, Msida, Malta
09:45 – 11:15	Lab practical - “Genetic fingerprinting”	Mater Dei Hospital, Msida, Malta
11:15 – 11:30	Coffee Break	
11:30 – 12:30	Presentation of teaching resources in molecular biology by participating teachers and ELLS	Mater Dei Hospital, Msida, Malta
12:30 – 13:30	Lunch	
13:30 – 14:15	Presentation 4: The power of gene editing & its implications for the future of our society, Dr. Lucas Chaible, EMBL Heidelberg	Mater Dei Hospital, Msida, Malta
14:15 – 15:00	Discussion: “Insights into research careers - why become a scientist?”, Laura Grech, University of Malta, Dr. Robert Formosa, University of Malta, Dr. Lucas Chaible, EMBL Heidelberg	Mater Dei Hospital, Msida, Malta
15:00 – 15:30	Course wrap-up and farewells	Mater Dei Hospital, Msida, Malta
15:30	End of LearningLAB	