MEDGEN

Developing Medical Genetics Education Through Curriculum Reforms
And Establishment Of Postgraduate Training Programs

Medical University of Graz, Austria
Charles University in Prague, Czech Republic
Training on NGS Bioinformatics Analysis
Department of Medical Genetics, Yerevan State Medical University, Armenia
10-15 April, 2016

Day	Coachers	Lectures and WorkShops
April 10	Zdenek Sedlacek, Miroslava Hancarova, Darina Prchalova, Pavel Tesner	Genetics of Intellectual Disability and Autism Biological Pathways in finding causative genes and variants NGS as a tool for determining the genetic origin of ID and Autism
April 11	Peter Ulz, Zdenek Sedlacek, Miroslava Hancarova, Darina Prchalova, Pavel Tesner	Bioinformatics Introduction NGS Technology Data formats Quality Control
April 12	Peter Ulz, Zdenek Sedlacek, Miroslava Hancarova, Darina Prchalova, Pavel Tesner	Variant Calling Overview Visualization and Quality Control Variant annotation Variant interpretation
April 13	Peter Ulz, Zdenek Sedlacek, Miroslava Hancarova, Darina Prchalova, Pavel Tesner	Exome sequencing SRA intro and data download Variant Calling Variant Filtering Variant interpretation Trio/IBD2/Homozygosity Mapper
April 14	Peter Ulz, Zdenek Sedlacek, Miroslava Hancarova, Darina Prchalova, Pavel Tesner	BCBio as Pipeline Tool Setup SNP-calling Alternative experimental setups RNA-Seq ChIP-Seq
April 15	Zdenek Sedlacek, Miroslava Hancarova, Darina Prchalova, Pavel Tesner	Human Genome in Bioinformatics CNV calling Structural Variant Calling Summary, Wrap up, Questions