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Dolný Smokovec, 18.08.2016

Whole Exome Sequencing

- Exomes of WOM/W and BNa/W mice

- Mutations responsible for lymphoblastic lymphoma development

- IonProton sequencer

Software and tools:

Torrent Suite
(mapping and variant
calling)

R environment
and Bioconductor

Variant Effect
Predictor

Databases:

Kyoto Encyclopedia of
Genes and Genomes

Mouse Genome Database

Most recent project

- Potential molecular targets for epigenetic therapies

- Colorectal cancer cell line with inducible knock-down of a gene of interest

- Heterotransplantation into Nude mice

- Xenografts growth ➡ knock-down

- Isolation of tumors

- RNA-seq

Thanks!