Cancer Genomics Workshop – Draft Timetable

The University of Sydney, NSW

25th July -27th July 2017

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| Time | Subject |
| Day 1 | |
| 9:00 - 9:15 | Welcome |
| 9:15 - 10:15 | Introduction to cancer genomics and NGS techniques |
| 10:15 - 10:30 | Break |
| 10:30 - 11:30 | Experimental design and caveats - 10 ways to ruin your experiment |
| 11:30 - 12:30 | Introduction to command line (L/P) |
| 12:30 - 13:30 | Lunch |
| 13:30 - 14:00 | Raw data - FASTQ format and QC |
| 14:00 - 14:30 | Alignment (L) |
| 14:30 - 15:00 | Manipulation of BAM files and QC (P) |
| 15:00 - 15:15 | Afternoon tea |
| 15:15 - 17:00 | Manipulation of BAM files and QC (P) (cont.) |
| 17:00 - 17:30 | Q&A |

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| Time | Subject |
| Day 2 | |
| 9:00 - 9:45 | SNV detection (L/P)  Indels, specific challenges of indels analysis, tools (P) |
| 9:45 - 10:30 | SNV detection (P) |
| 10:30 - 10:45 | Coffee break |
| 10:45 - 11:00 | Variants annotation and filtration (L) |
| 11:00 - 12:30 | Variants visualization (IGV), annotation and filtration (P) |
| 12:30 - 13:30 | Lunch |
| 13:30 - 14:15 | CNV analysis using NGS data (L) |
| 14:15 - 15:00 | CNV analysis – deletion/amplification, calling CNVs, visualization, interpretation (P) |
| 15:00 - 15:15 | Afternoon tea |
| 15:15 - 17:00 | CNV analysis – deletion/amplification, calling CNVs, visualization, interpretation (P) (cont.) |
| 17:00 - 17:30 | Accessing workshop VM’s and Q&A |

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| Time | Subject |
| Day 3 | |
| 9:00 - 9:45 | SV analysis – breakpoints/fusion (L) |
| 9:45 - 10:30 | SV analysis – breakpoints/fusion (P) |
| 10:30 - 10:45 | Coffee break |
| 10:45 - 13:00 | SV analysis – breakpoints/fusion (P) (cont.) |
| 13:00 - 13:30 | Lunch |
| 13:30 - 14:15 | Downstream analysis and interpretation – Exploration of resources and integration with clinical information (L) |
| 14:15 - 15:00 | Downstream analysis and interpretation (P) |
| 15:00 - 15:15 | Coffee break |
| 15:15 - 16:00 | Downstream analysis and interpretation (P) (cont.) |
| 16:00 - 16:45 | Guest talk Mark Cowley (L) |
| 16:45 - 17:30 | Q&A, wrap up & survey |