## "Professional Certificate in Bioinformatics"

\*\*for postgraduate students\*\*

## **Timetable**

Monday	Time	Details
	09:00 - 12:00	LINUX/UNIX
23 <sup>rd</sup> May		<b>Prof Mark Crowe,</b> Coordinator GplusE grant. Welcom
		(10 Min)
		<b>Prof. Gavin Conant</b> , University of Missouri
		Introduction, initial setup (please bring your own laptop)
	13:30 - 16:30	Next-generation sequencing
		Perl exercise : Quality filtering Illumina data
Tuesday 24 <sup>th</sup> May	09:00 - 12:00	Homology and BLAST exercises
		<b>Prof. Gavin Conant</b> , University of Missouri
	13:30 - 16:30	Population genetics/drift/selection
Wednesday 25 <sup>th</sup> May	09:00 - 12:00	Alignment, phylogenetics exercise
		<b>Prof. Gavin Conant</b> , University of Missouri
	13:30 - 16:30	Network biology—Theory & Cytoscape
Thursday	09:00 - 12:00	ULgFVM SNP discovery or population genomics
26 <sup>th</sup> May		
	10:00 16:00	Prof Michel Georges, ULg-FVM or others from TBA
Enidox	13:30 - 16:30	Genome Wide Association Studies (GWAS)
Friday 27 <sup>th</sup> May	09:00 – 12:00	
		<b>Prof Denis Shields</b> , University College Dublin
	13:30 - 16:30	Introduction to Machine Learning
		Willem Waegemn, UGent
Monday	09:00 - 12:00	High throughput sequencing
30 <sup>th</sup> May		Prof. Jan Fostier, UGent
	13:30 - 16:30	Metabolic modeling/FBA
	13.30 - 10.30	G,
		<b>Prof. Gavin Conant</b> , University of Missouri
Tuesday	09:00 - 12:00	Genome structure
31 <sup>st</sup> May		<b>Prof. Chris Elsik</b> , University of Missouri
	13:30 - 16:30	Sequencing/assembly,
Wednesday	09:00 - 12:00	Annotation
1 June		<b>Prof. Chris Elsik</b> , University of Missouri
	13:30 - 16:30	Annotation, cont.
Thursday	09:00 - 12:00	RNA-Seq: Theory and practice
2 June	12.00	
		Prof. Chris Elsik, University of Missouri
	13:30 – 16:30	Databases
D. A. I	09:00 - 12:00	TBA Assessment (or a series of assessments based on exercise
Friday 3 June	13:30 - 16:30	I DECOCOMO ONE LONG COMOC OF GRACE COME COLOR IS COLOR