



RADIOGENOMICS CONSORTIUM MEETING

Vall D'Hebron Institute of Oncology, Barcelona, Spain

Monday 19th June 2017

08:30 – 09:15	RGC Organising Committee Meeting
09:00 – 09:30	ARRIVAL: TEA / COFFEE

MORNING SESSION	
09:30 – 09:40	Welcome to Vall D'Hebron Institute of Oncology Dr Josep Tabernero (Director of <i>Vall D'Hebron Institute of Oncology</i>) Dr Jordi Giralt (<i>Head of Radiotherapy Oncology Dept. of Vall d'Hebron Hospital</i>) Sara Gutiérrez-Enríquez (<i>Vall D'Hebron Institute of Oncology, Spain</i>)
09:40 – 09:50	Welcome to RGC 2017 Barry Rosenstein (<i>Icahn School of Medicine at Mount Sinai, USA</i>) Catharine West (<i>University of Manchester, UK</i>)
Session 1: GWAS and Post-GWAS Projects - Part I	
Chair: Sara Gutiérrez-Enríquez (<i>Vall D'Hebron Institute of Oncology, Spain</i>)	
09:50 – 10:30	Meta-analysis of the expanded prostate GWAS Sarah Kerns (<i>University of Rochester, USA</i>)
10:30 – 10:50	Fine mapping analysis: Example from BCAC and plan for prostate toxicity loci Laura Fachal (<i>University of Cambridge, UK</i>)
10:50 – 11:20	TEA / COFFEE

Session 2: GWAS and Post-GWAS Projects - Part II	
Chair: Nicolaj Andreassen (<i>Aarhus Universitet, Denmark</i>)	
11:20 – 11:50	Danish head & neck GWAS & Danish breast GWAS Nicolaj Andreassen (<i>Aarhus Universitet, Denmark</i>)
11:50 – 11:55	RGC breast GWAS meta-analysis Alison Dunning (<i>University of Cambridge, UK</i>)
11:55 – 12:20	Update on TANC1 <i>in vitro</i> functional analysis Ana Vega/ Miguel Elias Aguado (<i>Galician Foundation of Genomic Medicine, Spain</i>)
12:20 – 12:30	RGC GROUP PHOTO
12:30 – 13:30	LUNCH



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AFTERNOON SESSION	
Session 3: Application of Machine Learning Techniques to Radiogenomics	
Chair: Sarah Kerns (<i>University of Rochester, USA</i>)	
13:30 – 14:15	Educational overview of machine learning John Kang (<i>University of Rochester, USA</i>)
14:15 – 14:45	Computational methods using genome-wide association studies to predict radiotherapy complications and to identify correlative molecular processes Sangkyu Lee and Jung Hun Oh (<i>Memorial Sloan Kettering Cancer Center, USA</i>)
14:45 – 15:15	Validated risk predictive model for radiation proctitis after prostate radiotherapy using clinical, dosimetric and genetic variables Sandeep Singhal (<i>Cross Cancer Institute, Canada</i>)
15:15 – 15:45	Model of late fecal incontinence after prostate cancer RT using neural networks Model of acute skin toxicity after breast cancer RT using unsupervised clustering of gene expression data Tiziana Rancati (<i>Fondazione IRCCS Istituto Nazionale dei Tumori, Italy</i>)
15:45 – 16:15	TEA / COFFEE
Session 4: Future Projects	
Chair: Barry Rosenstein (<i>Icahn School of Medicine at Mount Sinai, USA</i>)	
16:15 – 16:25	Impact of genetic ancestry on radiation therapy outcomes Luisel Ricks-Santi (<i>University of Hampton, USA</i>)
16:25 – 16:35	Ionizing radiation, DNA damage and immune response: Connecting the puzzle through the use of bioinformatics Alexandros Georgakilas (<i>National Technical University of Athens, Greece</i>)
16:35 – 16:50	Genetic Basis of Severe Normal Tissue Toxicities Following Prostate Cancer Radiotherapy Harry Ostrer (<i>Albert Einstein College of Medicine, USA</i>)
16:50 – 17:00	TAILORED cancer treatment based on risk of radiotherapy side-effects Catharine West (<i>University of Manchester, UK</i>)
17:00 – 17:30	Open Discussion - Process for reviewing and managing RGC concept forms
17:30	CLOSE

Guided visit to Recinte Modernista de Sant Pau at 18:30 followed by dinner at 1902 Cafè Modernista