

## Demystifying the Science behind Targeted Treatments and Immunotherapies for Malignant Melanoma 9 December 2019

9.00	Registration and coffee
9.30	<ul> <li>Malignant melanoma cell biology and genetics</li> <li>Cell of origin and mechanisms of development</li> <li>Key genetic mutations in malignant melanoma</li> <li>The relationship between melanoma and the immune system</li> <li>Differences between melanomas on sun-exposed vs. non-sun exposed skin and between cutaneous and non-cutaneous melanomas</li> </ul>
10.30	Work sheet 1
11.00	Break
11.20	<ul> <li>B-Raf and MEK inhibitors for malignant melanoma</li> <li>The EGFR/Ras/Raf/MEK/ERK pathway as a drug target</li> <li>Introduction to kinase inhibitors and their mechanism of action</li> <li>B-Raf inhibitors e.g. vemurafenib , dabrafenib, encorafenib</li> <li>MEK inhibitors e.g. trametinib, cobimetinib, binimetinib</li> <li>Combining B-Raf and MEK inhibitors – why is it better?</li> <li>Overview of clinical trials</li> </ul>
12.15	Work sheet 2
12.30	Lunch
13.15	Work sheet 2 answers
13.25	<ul> <li>Immunotherapy for malignant melanoma</li> <li>Introduction to T cells and checkpoint proteins</li> <li>Mechanism of action of checkpoint inhibitors (CTLA-4, PD-1 and PDL-1 monoclonal antibodies)</li> <li>Trials with licensed checkpoint inhibitors</li> <li>Development of biomarkers to guide patient selection</li> </ul>
14.30	Break
14.50	<ul> <li>Novel targets and treatment approaches</li> <li>Cell-based treatments and novel immunotherapies</li> <li>Progress with antigen and DNA vaccines</li> <li>Overview of agents in early phase trials</li> </ul>
15.50	Close