Biology Seminar

12:30 - 1:30 pm
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BGS 0165



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Driver alterations and mutational processes of prostate cancer

Prostate cancer is a common disease with highly variable clinical outcomes, ranging from slow-growing tumours to aggressive metastatic cancers. In this talk, I will discuss our recent studies from the international Pan Prostate Cancer Group, using whole-genome sequencing data from nearly 1,000 primary prostate cancers. We systematically identified genomic alterations that may drive cancer development and investigated the biological processes that leave characteristic patterns of mutations across cancer genomes. By integrating genomic and clinical data, we uncovered new cancer driver mechanisms, identified distinct molecular subtypes, and linked genomic features to disease aggressiveness. These findings provide new insights into prostate cancer biology and opportunities for improved patient classification and treatment.