The 24th Annual Prostate Cancer Foundation scientific retreat report.

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INTRODUCTION: The 24th Annual Prostate Cancer Foundation (PCF) Scientific Retreat was held from October 5-7, 2017, at the Omni Shoreham Hotel in Washington, DC.

METHODS: The PCF Scientific Retreat is a scientific conference that specifically focuses on cutting edge research deemed to have significant promise for accelerating advances in prostate cancer biology and treatment.

RESULTS: Themes highlighted at this year's meeting included: (i) new understandings in prostate cancer biology and disease progression; (ii) new mechanisms and treatment targets in advanced prostate cancer; (iii) advances in precision medicine genomics, germline genetics, and selection of targeted therapies; (iv) PSMA-targeted agents for PET imaging and radionuclide therapy; (v) approaches for improving the efficacy of immunotherapy in prostate cancer; (vi) applications of 3D Genomics in prostate cancer research; and (vii) potential applications of artificial intelligence in prostate cancer.

DISCUSSION: This article reviews the research presented at the PCF Scientific Retreat, in order to improve understanding of the current state of prostate cancer research, encourage discourse and exchange of novel ideas, and stimulate new basic, translational, and clinical research that will ultimately improve the lives of patients.

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