



ONCOLille Seminars

L'INSTITUT DE CANCÉROLOGIE DE LILLE

Tuesday, February 12, 2026, at 11 a.m.

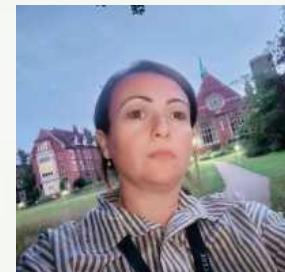
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Team IonIC « Role of Ion Channels in Therapeutic Failure »



“Abiraterone Acetate Induces TRPV6-Associated Autophagy Uncovering a Therapeutic Vulnerability in Prostate Cancer”

Abiraterone efficacy is limited in prostate cancer due to cellular protective mechanisms. We show that abiraterone treatment induces autophagy alongside upregulation of the calcium channel TRPV6 in patient tumors and experimental models. TRPV6-driven calcium signaling sustains protective autophagy through CaMKK2–AMPK activation and intracellular calcium remodeling. Targeting TRPV6 with our generated monoclonal antibody enhances abiraterone efficacy in vitro and in vivo without added toxicity, identifying a therapeutic vulnerability that may improve treatment outcomes and support biomarker-guided patient stratification.