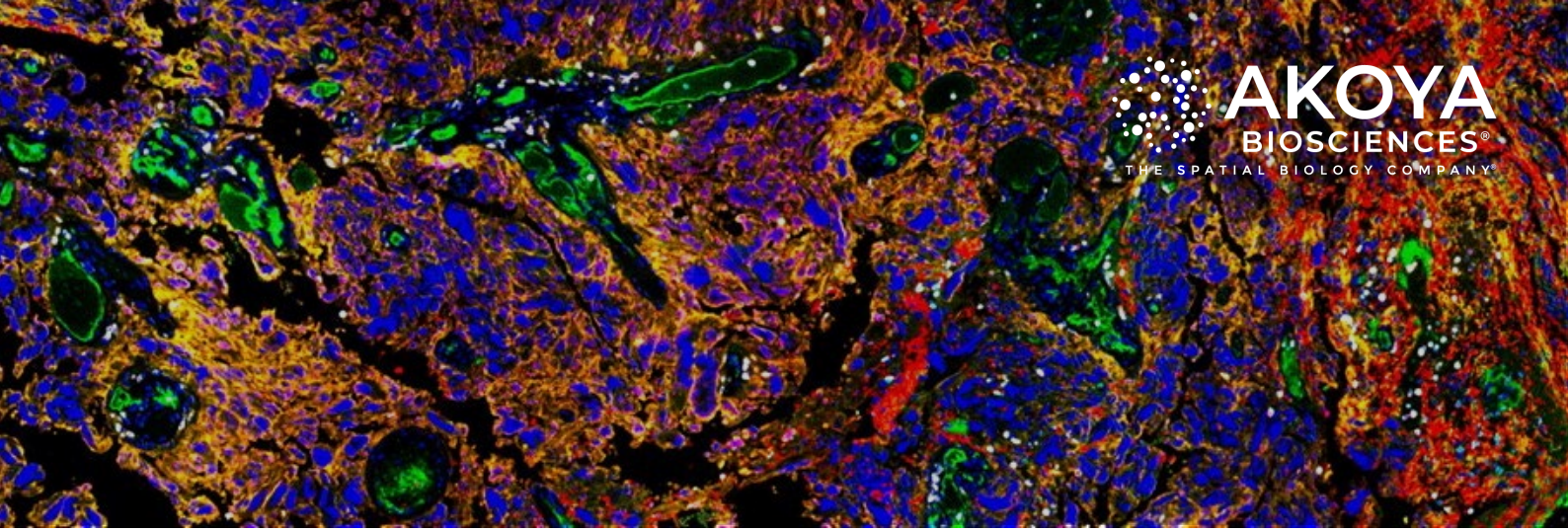

WEBINAR

Wednesday 13th Nov 2024
11:00 AM SGT/ 12:00 PM JST&KST/ 2:00PM AEDT

Reprogramming the Brain Tumor Microenvironment to Enhance Anti-Tumor Immunity

Dr Theo Mantamadiotis
Associate Professor and Laboratory Head
Doherty Institute Department of Microbiology and Immunology
The University of Melbourne

Achieving effective and sustainable anti-tumor immunity remains a significant challenge in cancer therapy, largely due to tumor immunosuppression. This is particularly pronounced in brain tumors, which create one of the most immunosuppressive tumor microenvironments. A key player in this process are macrophages, which can shift between a pro-inflammatory M1-like state and a pro-tumor M2-like state, contributing to the suppression of immune responses.

In this webinar, **Dr Theo Mantamadiotis** presents the latest research on reprogramming the brain tumor microenvironment to enhance anti-tumor immunity. Using advanced spatial tissue analysis combined with in vitro experiments, he will delve into the mechanisms regulating macrophage-dependent tumor immunosuppression in brain cancer. His findings reveal that the spatial localization of macrophages within the tumor microenvironment influences their functional state, and that pathological tissue remodeling within perivascular niches impacts the activity of tumor-infiltrating lymphocytes

Key topics include:

- ✓ Impact of the brain tumor microenvironment on immune cells
- ✓ The role of macrophages in tumor immunosuppression
- ✓ How tissue remodeling could enhance anti-tumor immunity in brain cancer

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VENUE | Online (Zoom Access), Live Q&A