

Microgravity Mission to Unlock New Insights into Cancer Biology

Space Mission to Provide Insights into Cancer Biology Supported by State Government Grant

ADELAIDE, SOUTH AUSTRALIA, AUSTRALIA, February 25, 2026 /EINPresswire.com/ -- A new Australian space research mission supported by South Australian State government will launch cancer biology experiments onboard a suborbital rocket, while establishing a repeatable pathway that makes access to space routine for researchers, universities and industry.

The initiative brings together Cambrian Defence & Space, Blue Dwarf Space and the Robinson Laboratory at the Centre for Cancer Biology, facilitated by a grant from the South Australian Space Collaboration and Innovation Fund, a joint initiative of the South Australian Space Industry Centre (SASIC) and the Defence Innovation Partnership (DIP)



Partners Microgravity Cancer Research Mission - Photo: (L to R) Tiffany Sharp, Kelly Yeoh, John Godwin, Dr Nirmal Robinson, Chelsea Sharp

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CEO Cambrian Defence & Space, Tiffany Sharp

While the mission will investigate cancer stem cell behaviour in microgravity, its broader purpose is to remove the traditional barriers that prevent medical and technology researchers from utilising the expedited insights space provides.

Lead investigator Dr Nirmal Robinson stated that “The mission will investigate the behaviour of stem cells that sit at the tipping point between normal function and potential malignancy in microgravity, offering a unique window into the earliest stages of cancer risk.” He further states that “the suborbital phase functions as a biological selection

stage.” Cells that respond to microgravity will progress to future orbital missions, ensuring long

duration flights are targeted and cost effective

Historically, space experimentation has required complex international procurement, impossible wait lists, specialised engineering teams, excessive cost and multi-year coordination. The partnership has integrated those processes into a single managed pipeline, allowing Australian researchers to focus on science rather than becoming space system experts.

“This program is about building access, not just flying an experiment,” CEO of Blue Dwarf Kelly Yeoh stated. “We are establishing a practical service where a research group can design a study, and reliably operate it in space without needing to become space engineers and regulatory, space law experts”

Managing the mission CEO Cambrian Defence & Space, Tiffany Sharp stated “This project removes a major barrier for Australian biomedical research: practical access to microgravity. It allows scientists to study disease behaviour in conditions that are difficult on Earth and accelerates translation toward therapies and commercial applications.”

Together the organisations are creating an Australian capability where space becomes a regular, more affordable and more accessible research environment rather than a rare opportunity.

The platform is designed to support multiple sectors including biotechnology, medical, advanced materials, botanical, health, and human performance research, enabling organisations to operate experiments in microgravity through a structured and repeatable process.

This collaborative model, and State government support forms the foundation of an ongoing microgravity research service.

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