

VICTOR CHANG
CARDIAC
RESEARCH
INSTITUTE
**INNOVATION
CENTRE**



Clinical Imaging Facility



A FACILITY OF ST VINCENT'S HEALTH AUSTRALIA



Clinical Imaging Facility

Purpose-built for the Victor Chang Cardiac Research Institute Innovation Centre, the dedicated Clinical Imaging Facility equips researchers to conduct advanced applications such as MR diffusion, functional MRI, myocardial perfusion, dynamic angiography, MR Spectroscopy (including phosphorus) and tissue characterisation through advanced mapping techniques.

The Siemens Prisma scanner is an unmatched 3T magnet with 80 mT/m @ 200 T/m/s simultaneously, on all axes. The mechanical resonance imaging (MRI) machine has high-performance cooling for each individual gradient axis; a force-compensated design for reduced vibrations; unprecedented long-term stability and minimised acoustic noise in a 60 cm bore. It has the highest coil element density, designed for maximum SNR and extreme iPAT performance with up to 128 independent channels. There is 3T benchmark homogeneity in a large field of view.

The dedicated Clinical Imaging Facility is housed at Australia's first dedicated cardiac imaging hub, the Advanced Cardiac Imaging Centre at St Vincent's Hospital, Sydney, which is also equipped with the most advanced Cardiac CT technology.

<https://www.stvincentsclinic.com.au/find-a-doctor/specialties/cardiology>

Enquiries about research projects

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Enquiries for clinical bookings

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The power of discovery

The Victor Chang Cardiac Research Institute Innovation Centre is heralding a medical research revolution.

Proudly supported by the NSW Government, the Innovation Centre gives researchers access to state-of-the-art equipment and cutting-edge technologies, including two MRI scanners, a series of mass spectrometers, micro-CT, iPSC automated robotics and a cryo-electron microscope.

The Victor Chang Cardiac Research Institute Innovation Centre is pushing the boundaries of knowledge by facilitating a new era of collaboration between researchers across the state and the Asia Pacific, transforming the landscape of cardiovascular research.