



Victor Chang
Cardiac Research Institute



CELEBRATING
21 YEARS OF
DISCOVERY
1994-2015

**POST-DOCTORAL RESEARCH SCIENTIST – REDOX
BIOCHEMIST
NOVEL PATHWAY REGULATING VASCULAR TONE AND
BLOOD PRESSURE**

- **HIGH PROFILE RESEARCH INSTITUTE**
- **FRIENDLY WORK ENVIRONMENT**
- **CLOSE TO PUBLIC TRANSPORT**

THE VICTOR CHANG CARDIAC RESEARCH INSTITUTE (VCCRI), ESTABLISHED IN 1994, IS RECOGNISED AS AN INTERNATIONAL CENTRE OF EXCELLENCE IN BIOMEDICAL RESEARCH WITH A FOCUS ON HEART DISEASE AND CARDIOVASCULAR BIOLOGY. EMPLOYING 160 STAFF, THE INSTITUTE CONDUCTS RESEARCH INTO THE PREVENTION OF HEART DISEASE AND UNDERTAKES CUTTING EDGE RESEARCH.

WE ARE SEEKING AN ENTHUSIASTIC POST-DOCTORAL SCIENTIST TO JOIN AN INTERNATIONAL TEAM AND WHO WANTS TO FORGE A CAREER IN BIOCHEMISTRY AND BIOLOGICAL CHEMISTRY IN THE VASCULAR BIOLOGY DIVISION, HEADED BY PROFESSOR ROLAND STOCKER.

THE PROJECT, BASED ON OUR PUBLISHED FINDINGS (*NAT MED* 2010;16:279), INVOLVES CONDUCTING RESEARCH INTO THE MECHANISM OF *IN VITRO* AND *IN VIVO* FORMATION OF VASOACTIVE TRYPTOPHAN OXIDATION PRODUCTS BY INDOLEAMINE 2,3-DIOXYGENASE IN THE CONTEXT OF INFLAMMATION AND THE PRESENCE OF REACTIVE OXYGEN SPECIES. THE FOCUS WILL BE ON REDOX COMPONENTS OF VASCULAR FUNCTION MODULATION BY THE TRYPTOPHAN METABOLITES, AND HOW THIS RELATES TO OTHER PATHWAYS OF VESSEL RELAXATION, SUCH AS THAT MEDIATED BY ENDOTHELIAL NITRIC OXIDE SYNTHASE/NITRIC OXIDE. THE POSITION WILL ALSO INVOLVE COLLABORATIVE WORK WITH OTHER MEMBERS OF THE LABORATORY, STUDYING THE ROLES OF HEME OXYGENASE-1 AND MYELOPEROXIDASE IN VASCULAR HEALTH AND DISEASE.

THE SUCCESSFUL CANDIDATE WILL HOLD A PHD, BE HIGHLY MOTIVATED, CAPABLE OF INDEPENDENT WORK AS WELL AS PERFORMING WELL IN A TEAM, AND BE WILLING TO 'BRIDGE' CHEMICAL WITH BIOMEDICAL RESEARCH. GOOD INTERPERSONAL, WRITTEN AND ORAL COMMUNICATION SKILLS ARE REQUIRED. HANDS-ON EXPERIENCE WITH TWO OR MORE OF THE FOLLOWING IS ESSENTIAL:

- **REDOX (BIO)CHEMISTRY RELATED TO SINGLET OXYGEN, OTHER REACTIVE OXYGEN SPECIES AND/OR PEROXIDASES**
- **EXPERIENCE IN ANALYTICAL CHEMISTRY INCLUDING HPLC, LC-MS AND NMR**
- **EXPERIENCE IN VASCULAR FUNCTION AND DYSFUNCTION, PARTICULARLY RELATED TO THE ENDOTHELIAL NITRIC OXIDE SYNTHASE/NITRIC OXIDE PATHWAY**

SALARY WILL BE COMMENSURATE WITH QUALIFICATIONS AND EXPERIENCE. SALARY PACKAGING AND SUPERANNUATION OPTIONS ALSO APPLY. THIS IS A FULL-TIME APPOINTMENT FOR UP TO THREE YEARS WITH AN ANNUAL REVIEW AND THE POSSIBILITY OF RENEWAL SUBJECT TO FUNDING.

FURTHER INFORMATION IS AVAILABLE FROM PROF ROLAND STOCKER (R.STOCKER@VICTORCHANG.EDU.AU).

APPLICATIONS, INCLUDING COVER LETTER, CV, PROOF OF QUALIFICATIONS AND DETAILS OF THREE REFEREES, CAN BE EMAILED TO RECRUITMENT@VICTORCHANG.EDU.AU.

CLOSING DATE: 1 MAY 2015