Ian Scott PhD Scholarships are named after the founder of Australian Rotary Health – PP Ian Laurence Scott. Ian joined Rotary in Alexandra, Victoria in 1973 and served with distinction in many clubs throughout NSW and Victoria. Whilst a member of the Rotary Club of Mornington in Victoria, Ian was inspired to found Australian Rotary Health, in 1981, to identify the cause of Cot Death or Sudden Infant Death Syndrome. Ian served as treasurer on the board and became a life member in November 1989. Australian Rotary Health Ian Scott PhD Scholarships were introduced in 2000 to honour and recognise Ian’s service to Rotary and mankind. Each scholarship is awarded for up to 3 ½ years. These highly prestigious scholarships are awarded to young scientists involved in “Mental Illness” research. Up to 10 scholarships are in progress at one time.

Funding Partner PhD Scholarships are awarded – again for up to 3 ½ years – for researchers involved in any health area. The funding is provided jointly by a Rotary Club or group of Clubs, a Rotary District, a Rotarian or a Corporation along with the university at which the scholar is enrolled, and Australian Rotary Health. Funding Partner Scholarships commenced in 2004 and in 2013 there will be 41 Funding Partner Scholars. The instigators of each scholarship are the Funding Partners (Rotary Club etc) and the health area is their choice.

FUNDING THIS YEAR INTO RESEARCH …….

<table>
<thead>
<tr>
<th>Scholarship Type</th>
<th>Support Provided</th>
<th>Amount</th>
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<tbody>
<tr>
<td><strong>Ian Scott Scholarships</strong></td>
<td>Up to $29,000 pa</td>
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<td><strong>Post Doctoral Fellowships</strong></td>
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<td><strong>Research Companion PhD Scholarships</strong></td>
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<tr>
<td><strong>Funding Partners PhD Scholarships</strong></td>
<td>Up to $29,000 pa</td>
<td>41</td>
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Supporting healthier minds, bodies and communities through research, awareness and education.
Ian Scott PhD Scholarships 2013
Up to $29,000 per annum

Kristi-Ann Villagonzalo
University of Melbourne, Vic
Redox Biology and Autism

Annie Brennan
Brain Dynamics Centre/University of Sydney, NSW
Cognition in First Episode Psychosis: Mapping Relationships between Task Performance, Brain Changes and Symptoms

Paul Anderson
University of Melbourne, Vic
Gamma frequency oscillations and the NMDA receptor hypofunction hypothesis of schizophrenia: Exploring functional disconnections in psychosis

Jessica Andrews
University of Wollongong, NSW
Lingo-1 signalling pathway: an emergent role in schizophrenia pathophysiology

Siobhan Housden
Deakin University, Vic.
Investigating the impact of dietary improvement as a treatment strategy in mental health

Edith Eva Holloway
University of Melbourne, Vic.
Managing depression within low vision rehabilitation services: the effectiveness of integrating an evidence-based therapy ‘Problem-Solving Therapy for Primary Care’ on depression, quality of life and service utilisation in those with low vision

Allan ‘Ben’ Smith
University of Sydney, NSW
Understanding the psychosocial sequelae of surviving testicular cancer

Supporting healthier minds, bodies and communities through research, awareness and education
**Continuing Ian Scott PhD Scholarships 2013**
*Up to $29,000 per annum*

- **Rose Chesworth**
  *Florey Neurosciences Institute, Vic*
  The role of the metabotropic glutamate and adenosine 2A receptors in methamphetamine addiction

- **Natalie Matosin**
  *University of Wollongong, NSW*
  Metabotropic Glutamate Receptor 5 in the Pathology and Treatment of Schizophrenia

- **Anika Martin**
  *National Drug and Alcohol Research Centre/University of New South Wales, NSW*
  Do depression and anxiety complicate the risks and treatment outcomes for individuals living with chronic pain?

- **Clare McCormack**
  *National Drug and Alcohol Research Centre/University of New South Wales, NSW*
  Impacts of prenatal alcohol and drug exposure on infant cognitive development

- **Carmel Sivaratnam**
  *Monash University, Vic*
  Environmental and Biological factors influencing everyday social interaction impairments in young children with autism and children with traumatic developmental experiences

- **Aves Middleton**
  *University of Melbourne, Vic.*
  The development of an effective response for the management of suicidality in primary care for patients with depressive symptoms

- **Ashley Skilleter**
  *University of New South Wales*
  A randomized controlled trial of transcranial Direct Current Stimulation to reduce auditory hallucinations and enhance cognitive function in schizophrenia

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Supporting healthier minds, bodies and communities through research, awareness and education
Bartolina Peluso Scholarship  
Dementia  
**Anna Devlin**  
Deakin University, Vic  
Investigating Fitness to Drive in Older Drivers with Cognitive Impairment

Whitcroft Family PhD Scholarship  
_Mental Health_  
**Monika Wadolowski**  
National Drug & Alcohol Research Centre/University of New South Wales, NSW  
Parental modelling and supply of alcohol: Does this improve or worsen drinking outcomes in young Australians?

Neville & Jeanne York PhD Scholarship  
_Motor Neuron Disease_  
**Stephanie Shepheard**  
Flinders University, SA  
p75NTR as a biomarker for disease progression in the Motor Neuron Disease mouse model SOD1G93A

Kaiyu Enterprises Scholarship  
_Mental Health_  
**Leonard Kanowski**  
University of Newcastle, NSW  
Developing a mental health resilience program with Australian Aboriginal Communities

Lorraine and Bruce McKenzie Scholarship  
_Mental Health_  
**Siân Alexandra McLean**  
La Trobe University, Vic.  
Sociocultural and peer related factors in body image in adolescent girls: Implications for prevention

Terry Beslich PhD Scholarship  
_Children’s Mental Health_  
**Kelly Baird**  
Macquarie University, NSW  
Through the Eyes of the Child: The impact of Parenting Programs on Vulnerable Young Children

Supporting healthier minds, bodies and communities through research, awareness and education
NEW SOUTH WALES

Australian Rotary Health/District 9680 & 9690
Rotary Club of Dural/The David Henning Memorial Foundation
Breast Cancer
Jaesung Peter Choi
ANZAC Research Institute, NSW
Role of androgens via AR in PTEN inactivation induced female reproductive pathology

Australian Rotary Health/District 9680
Rotary Club of North Sydney
Ian McNair Scholarship
Brain Tumours
Dan Lu
University of NSW
Development of Novel and Selective Anti-Tumour Agents for the Treatment of Brain Cancer

Australian Rotary Health/District 9690
Rotary Club of Parramatta City
Youth Suicide
Tonelle Handley
University of Newcastle, NSW
Suicide in Australia: Determinants, moderators and treatment options for suicidal thoughts and behaviours

Australian Rotary Health/District 9680
Rotary Club of Glenhaven
Dementia
Marshall Axel Dalton
University of NSW/Neuroscience Research Australia, NSW
Characterization of episodic memory deficits in frontotemporal dementia and Alzheimer's disease

Australian Rotary Health/District 9700
Rotary Club of Parkes
Spinal Cord Injury
Dianah Rodrigues
University of Sydney, NSW
The influence of neural factors on secondary conditions such as pain and fatigue in persons living with Spinal Cord Injury

Australian Rotary Health/District 9650
District 9650 Bowelscan PhD Scholarship
Bowel Cancer
Amy Martin
Hunter Medical Research Institute/University of Newcastle, NSW
Elucidating genetic predispositions to Hereditary Non-Polyposis Colorectal Cancer (HNPCC)
Australian Rotary Health/District 9680
The Hooton Family
Mental Health
Daniel Quintana
University of Sydney, NSW
Impact of depression, substance abuse and its treatment using oxytocin: An animal and human research study

Australian Rotary Health/District 9690
Rotary Club of Parramatta City
Prostate Cancer
Kevin Jia-Jin Loo
University of Wollongong
In Body Imaging Brachy View: Improved Brachytherapy of Prostate Cancer Treatment

Australian Rotary Health/District 9750
Rotary Club of Bondi Junction
Stem Cell Research
Bianca Borchin
Monash University, VIC
Derivation of skeletal myocytes from human and embryonic stem cells

Australian Rotary Health/District 9700
Rotary Club of Parkes
Parkinson’s Disease
Shoshanah Longmuir
Howard Florey Institute, VIC
Biomarkers in Parkinson’s Disease

Australian Rotary Health/District 9640
District 9640 Bowelscan PhD Scholarship
Bowel Cancer
Phuoc Thien Huynh
University of Sydney, NSW
Inflammatory determinants for colorectal cancer treatment

Australian Rotary Health/District 9650
District 9650 Bowelscan PhD Scholarship
Bowel Cancer
Amy Louise Martin
Hunter Medical Research Institute/University of Newcastle, NSW
Elucidating genetic predispositions to Hereditary Non-Polyposis Colorectal Cancer (HNPCC)

Australian Rotary Health/District 9690
Rotary Club of Liverpool West
The Role of Metals for Treatment of Cancer
Rayan Moussa
University of Sydney, NSW
Development of Novel Anti-Tumour Agents for the Treatment of Melanoma
### Funding Partner PhD Scholarships 2013

**NEW SOUTH WALES**

**Australian Rotary Health/District 9680**  
*Rotary Club of Pennant Hills*  
Phenylketonuria  
**Naz Al Hafid**  
Children’s Hospital at Westmead, NSW  
Evaluation of a Novel Treatment Strategy for Phenylketonuria

**Australian Rotary Health/District 9700**  
*Rotary Club of Wollundry-Wagga Wagga*  
Gordon Braid Melanoma Research PhD Scholarship  
Melanoma  
**Matteo Carlino**  
Westmead Millennium Institute/University of Sydney, NSW  
Determining the molecular mechanisms of B-RAF/MEK inhibitor resistance in melanoma

**Australian Rotary Health/Rotary District 9680**  
Motor Neuron Disease  
**Kate Roberts**  
University of Wollongong, NSW  
Elucidating the role of extracellular mutant SOD1 in activation of glial cells and motor neurone cell death in ALS

**Australian Rotary Health/District 9680**  
*Rotary Club of Hunters Hill*  
Lloyd Binet PhD Scholarship  
Motor Neuron Disease  
**Rebecca Brown**  
University of Wollongong, NSW  
The role of protein inclusions in the transfer of pathology in MND

**Australian Rotary Health/District 9700**  
*Rotary Club of Parkes*  
Depression  
**Shantel Leigh Duffy**  
Brain & Mind Institute/University of Sydney, NSW  
Understanding the ‘in-vivo’ mechanisms underpinning the anti-inflammatory and neuroprotective effects of omega 3 fatty acids: a Magnetic Resonance Spectroscopy study

**Australian Rotary Health/District 9680**  
*Diane Erskine/Rotary District 9680 Scholarship*  
Diabetes  
**Shin Yi (Taria) Ng**  
University of Sydney, NSW  
Investigating the Adverse Effects of Matrix Metalloproteinases in Diabetic Wound Healing
NEW SOUTH WALES

**Australian Rotary Health/District 9700**
*Rotary Club of Parkes*
Parkinson’s Disease
**Dr James Shine**
University of Sydney, NSW
Identifying the pathophysiology and neural correlates of Freezing of Gait in Parkinson’s Disease

**Australian Rotary Health/District 9750**
*Rotary Club of Sydney CBD*
HIV/AIDS
**Dr Damien Conway**
University of NSW
Novel approaches to HIV testing for men who have sex with men

**Australian Rotary Health/District 9680**
*Rotary Clubs of Dural & Penrith Valley*
Prostate Cancer
**Anthony Espinoza**
University of Wollongong
BrachyPix: advanced QA in prostate cancer treatment by High Dose Rate brachytherapy

**Australian Rotary Health/District 9700**
*Rotary Club of Parkes*
Spinal Cord Injury
**Charles Lo**
University of Sydney, NSW
Socioeconomic Perspectives and Functional Priorities of People with SCI

**Australian Rotary Health/District 9750**
*The Rotary Club of Sutherland*
**Harry Banks Sutherland Rotary PhD Scholarship**
Childhood Cancer
**Rebecca Dagg**
Children’s Hospital at Westmead, NSW
A novel mechanism for sustained proliferation of neuroblastoma cells

**Australian Rotary Health/District 9680**
*The Rotary Club of Dural*
Motor Neuron Disease
**Isabella Lambert-Smith**
University of Wollongong, NSW
Are proteostasis defects responsible for Amyotrophic Lateral Sclerosis?

**Australian Rotary Health/District 9680**
*Rotary Club of Dural*
Parkinson’s Disease
**Giedre Milinkeviciute**
Garvan Institute for Medical Research, NSW
Conserved modifiers of Parkinson’s Disease
NEW SOUTH WALES

Australian Rotary Health/District 9690
The Henning Family
Alzheimer’s Disease
Blagojce Jovcevski
University of Wollongong, NSW
Structure, Function and Interactions of Hsp20 with Hsp27 and aB-crystallin: Potential Implications in Neurodegeneration Disease

VICTORIA

Australian Rotary Health/District 9820
Rotary Club of Koo Wee Rup/Lang Lang
Epilepsy
Melissa Benson
University of Queensland, Qld
Intranasal delivery of phospholipase A2 inhibitors for the treatment of epilepsy

Australian Rotary Health/District 9780
Bowel Cancer
Michelle Palmieri
Ludwig Institute for Cancer Research, Vic.
Understanding Oncogenic PI3K Signalling in Colorectal Cancer – From Function to Therapy

Australian Rotary Health/District 9780
Rotary Club of Ballarat South
Diabetes
Anna Roy
Victoria University, VIC
The effect of different dietary fatty acids and weight loss on endocannabinoid and adiponectin signalling in the skeletal muscle

Australian Rotary Health/District 9820
Rotary Club of Mornington
Rotary Club of Mornington Ron Fallaw Memorial PhD Scholarship
Diseases of the Brain
Bevan Main
University of Melbourne, Vic.
The role of type-I Interferons in Parkinson’s disease
SOUTH AUSTRALIA

Australian Rotary Health/District 9500
Rotary Club of Adelaide
Childhood Cancer
Le Myo Thwe
Children’s Hospital at Westmead, NSW
Biomarker Analysis in Paediatric Tumours Diagnosed within a Single Institution

TASMANIA

Australian Rotary Health/District 9820
Rotary District 9830 Bowel Cancer PhD Scholarship
Bowel Cancer
Sarron Randall-Demllo
University of Tasmania, Tas
Investigation of carcinogenesis pathways in colitis-associated colorectal cancer

SCHOLARSHIPS CURRENTLY BEING ADVERTISED

Australian Rotary Health/Rotary Club of Adelaide
PhD Scholarship investigating into Youth Homelessness (SA only)

Australian Rotary Health/Rotary District 9650 Bowelscan
PhD Scholarship investigating into Bowel Cancer (NSW only)

Australian Rotary Health/Rotary Club of Dural
PhD Scholarship investigating into Ovarian Cancer (NSW only)

Australian Rotary Health/Rotary Club of Dural
PhD Scholarship investigating into Primary Lymphoedema (NSW only)
Health services routinely manage acute agitation. Such behaviour is especially prevalent in hospital emergency departments, and is usually secondary to mental illness and drug or alcohol intoxication. If not managed promptly, acute agitation may progress to aggression and violence, posing a risk to the safety of the individual and healthcare staff or other patients. In the emergency department, the goal of managing the acutely agitated patient is prevention or safe and rapid control of aggressive or violent behaviour, thereby allowing the underlying cause to be investigated and treated.

This project employed several research methodologies to explore a number of important knowledge gaps in the management of acute agitation in the emergency department setting. The data generated will contribute towards improving the management of acute agitation through an understanding of current practice, a comparison of sedating drugs and an assessment of resource implications.

Dr Esther Chan, PhD
Monash University, Vic
Ian Scott Scholar: 2008-2011
Project Title: Improving the Management of Acute Agitation in the Emergency Department

The dietary habits of people within industrialised nations have changed considerably in the last 20 years, and these changes have been accompanied by an increase in the burden of chronic, non-communicable diseases. There is an emerging understanding that depressive illness is influenced by whole body systems such as the immune and endocrine systems, as well as by biochemical, genetic, and neurodegenerative factors. These systems and factors are, in turn, modulated by diet. There is emerging evidence of a role for diet and nutrition in depressive illness, however previous research in this field has focused on individual nutrients such as folate and fatty acids. This study investigated the association between habitual diet and the high prevalence mental disorders in a randomly selected community sample of women. This study is the first to undertake a structured examination of the association between whole diet and the common mental disorders, and the results support the hypothesis that habitual diet is related to depressive and anxiety disorders. Further studies are required to elucidate the role of nutrition in the aetiology of these illnesses.

A/Professor Felice Jacka, PhD
Deakin University, Vic
Ian Scott Scholar: 2005-2008
Project Title: The association between depressive and anxiety disorders and nutrition: Are we what we eat?

Eating disorders are a significant health issue. They commonly affect young women, create considerable disability and impose great burden on young individuals, their family and community. Despite the availability of effective treatments, very few people with a diagnosable eating disorder seek appropriate treatment and public knowledge of symptoms and their effects is poor. This research established that there are appropriate mental health first aid strategies which members of the public can use when providing assistance to someone developing or experiencing an eating disorder. These strategies were used to create the document Eating Disorders: First aid guidelines. This research also established these guidelines can be usefully implemented and are associated with the provision of appropriate mental health first aid strategies to those with eating disorders.

Dr Laura Hart, PhD
University of Melbourne, Vic
Ian Scott Scholar: 2009-2011
Project Title: Mental Health First Aid for Eating Disorders: the development of first aid guidelines and interventions for the public
Changing the Face of Craniosynostosis
My PhD study was aimed at looking at the possible role of RBP4, a vitamin A binding protein, in Craniosynostosis. Craniosynostosis is a condition that affects 1 in 2500 live births. It is where sutures, the fibrous joins between skull bones, turn to bone. This bony overgrowth prevents further growth of the skull and consequently this restricts the rapid expansion of the head during infancy, which is required to allow for brain growth. This can result in raised pressure inside the skull, mental retardation, misshapen eye sockets and difficulties with breathing and hearing.
In a recent study from our laboratory, RBP4 was found to be expressed in significantly less quantities in the sutures of patients with Craniosynostosis, compared to those without. As it is known that changes in the vitamin A signalling pathways can promote bone growth, this presented an interesting scientific lead for us to follow. The present study has provided some useful insights into the potential factors that may cause Craniosynostosis.

Proton Radiotherapy for Brain Tumours
My research focused on proton radiotherapy for tumours located in or near the brain, with a particular emphasis on cases involving children. Proton radiotherapy is not currently available in Australia, but previous research has shown potential improved benefit, particularly for children, compared to X-ray radiotherapy treatments currently available to Australian patients. During proton therapy treatments, secondary particles are produced via interactions which occur between the proton beam and the material it traverses. The aim of this study was to quantify the magnitude of these secondary particles and to determine the effect they have on patients.
The benefits of pencil beam scanning, a newer method of delivering proton radiotherapy, were also investigated and compared to current proton radiotherapy. It is envisaged that over the coming years, the push to acquire proton radiotherapy technology in Australia will intensify given the growing amount of evidence showing its efficacy in treating cancer.

Liver Metastases
Cancer continues to represent a major health burden to Australia and this study set out to resolve two major problems faced by cancer researchers today. The first challenge was to identify new genes that cause cancer. Such genes may represent indicators of disease that can assist in early detection and prevent people from becoming ill. The second challenge in this project was to address the need for fast and accurate ways of modelling human cancer progression in mice. BORIS and CTCF represent two related genes that were suspected to play a role in cancer development. Known as transcription factors, these genes act like a master on/off switch for hundreds of other genes that control growth and development. We also found that cancer cells containing BORIS and CTCF not only formed smaller tumours, but also contained fewer blood vessels (that feed the tumour with blood/oxygen) and therefore were less likely to spread to other organs. This information shows that BORIS and CTCF are new cancer gene targets for drug development. It may be possible to design drugs that mimic the tumour suppressing functions of BORIS and CTCF in cancer patients. Additionally, testing patient tumour samples for levels of BORIS and CTCF may provide doctors with certain clues in determining the best possible treatment options.