

# Programme In Detail

**8.45 - 9.00**

## **Welcome Address**

Dr. Maria Kavallaris, ASMR NSW Branch Convenor

**9.00 - 10.45**

## **Symposium I**

- Oral-1.1** ROLES OF TELOMERE DYSFUNCTION IN ONCOGENESIS  
Roger Reddel
- Oral-1.2** INVESTIGATION OF FGF23, A NOVEL PHOSPHATE TRANSPORT REGULATOR  
9.30am Michiko Mirams, Bruce Robinson, Rebecca Mason & Anne Nelson
- Oral-1.3** DIFFERENTIAL EXPRESSION OF CONNECTIVE TISSUE GROWTH FACTOR  
9.45am IN ASTHMATIC AND NON-ASTHMATIC AIRWAY SMOOTH MUSCLE CELLS  
Janette Burgess, Peter Johnson, Qi Ge, Wendy Au, Maree Poniris, Brent McParland, Michael Roth & Judith Black
- Oral-1.4** IMPAIRED WOUND HEALING AND ALTERED FIBROBLAST CYTOSKELETAL  
10.00am DYNAMICS IN  $G_{\alpha T}$ /TGASE II KNOCKOUT MICE  
Bryony Mearns, Nisha Nanda, Jan Michalicek, Siiri Iismaa & Robert Graham
- Oral-1.5** FAVOURABLE MODULATION OF BONE REPAIR: THE MODE BY WHICH  
10.15am BISPHOSPHONATES INCREASE FRACTURE CALLUS SIZE AND STRENGTH  
Elisabeth Smith, Anthony McEvoy, Nicholas Smith, Rachel Peat, Julie Briody, Paul Baldock, John Eisman, David Little & Edith Gardiner
- Oral-1.6** EXPRESSION OF A NEMALINE MYOPATHY CAUSING MUTATION IN  
10.30am SKELETAL MUSCLE OF MICE ALTERS MYOFIBRE ADAPTATIONAL RESPONSE TO ENDURANCE EXERCISE  
Anthony Kee, Visalini Nair-Shalliker, Josephine Joya, Peter Gunning, Kathryn North & Edna Hardeman

**10.45 - 11.30**

## **Poster Session I**

**11.30 - 1.15**

## **Symposium II**

- Oral-2.1** EPIGENETIC INHERITANCE IN THE MOUSE  
Emma Whitelaw, V Rakyar, J Preis, M Blewitt & R Druker
- Oral-2.2** LOCALIZATION OF THE VON WILLEBRAND FACTOR REDUCING ACTIVITY  
12.00pm OF THROMBOSPONDIN-1  
John Pimanda, Douglas Annis, Mark Raftery, Deane Mosher, Colin Chesterman & Philip Hogg
- Oral-2.3** hMusTRD1 $\alpha$ 1 CONTAINS TWO DNA BINDING DOMAINS, BUT CAN REPRESS  
12.15pm TROPONIN I SLOW IN THE ABSENCE OF DNA BINDING  
Patsie Polly, Leila Haddadi, Nanthakumar Subramaniam, Laura Issa & Edna Hardeman



# Poster Presentations

- Poster-1 A SUCCESSFUL PREGNANCY DEMONSTRATES INDIVIDUAL VARIABILITY OF ENDOMETRIAL RESPONSE TO HORMONAL PRIMING IN AN IVF SETTING  
Susan Adams & Christopher Murphy
- Poster-2 LONG-ACTING  $\beta_2$ -AGONISTS, BUT NOT SHORT-ACTING  $\beta_2$ -AGONISTS ATTENUATE CYTOKINE-INDUCED iNOS PRODUCTION IN A549 CELLS VIA A NON-PKA-MEDIATED PATHWAY  
Israel Armstrong & Alaina Ammit
- Poster-3 ALTERED HORMONE ACTION IN BREAST TISSUE FROM WOMEN WITH HEREDITARY BREAST CANCER  
Patricia Mote, Jennifer Leary, Kelly Avery, Kerstin Sandelin, kConFab, Judy Kirk & Christine Clarke
- Poster-4 SUCCINATE DEHYDROGENASE SUBUNIT B (*SDHB*) IN PHAEOCHROMOCYTOMAS AND PARAGANGLIOMAS  
Diana Benn, Anne Louise Richardson, Christopher Bambach, Deborah Marsh & Bruce Robinson
- Poster-5 COMPARISON OF THREE PROMOTERS FOR THE PRODUCTION OF BIOPHARMACEUTICALS IN STABLE TRANSFECTED CHO CELL LINES  
Leonore de Boer, Peter Gray & Noelle-Anne Sunstrom
- Poster-6 OVEREXPRESSION OF D52 AND D53 PROTEINS IN MDA-MB-231 CELLS: THE FIRST IN VITRO MODEL FOR D52-LIKE FUNCTION IN BREAST CARCINOMA CELLS  
Rose Boutros, Angela Bailey & Jennifer Byrne
- Poster-7 SPECIFICATION OF ACTIN FILAMENT FUNCTION BY TROPOMYOSIN ISOFORMS  
Nicole Bryce, Ornella Tolhurst, Justin Percival, Peter Jeffrey, Fumio Matsumura, James Bamburg, Peter Gunning & Ron Weinberger
- Poster-8 ANTISENSE OLIGONUCLEOTIDE-MEDIATED DOWN-REGULATION OF THE *MYCN* ONCOGENE AS A POTENTIAL THERAPEUTIC STRATEGY IN THE TREATMENT OF CHILDHOOD NEUROBLASTOMA  
Andy Cheng, Catherine Burkhart, William Weiss, Michelle Haber & Murray Norris
- Poster-9 DETECTION OF PAX8-PPAR $\gamma$  FUSION ONCOGENE TRANSCRIPTS IN THYROID CARCINOMAS  
Linda Cheung, Marinella Messina, Anthony Gill, Adele Clarkson, Diana Learoyd, Leigh Delbridge, John Wentworth, Jeanette Phillips, Roderick Clifton-Bligh & Bruce Robinson
- Poster-10 REPRESSION OF TELOMERE MAINTENANCE MECHANISMS IN HUMAN SOMATIC CELL HYBRIDS  
Sara Cole & Roger Reddel
- Poster-11 DEVELOPMENTAL EXPRESSION OF SYNTROPHIN AND DYSTROBREVIN IN HUMAN SKELETAL MUSCLE  
A Compton, S Cooper, M Peters, L Kunkel, S Froehner & K North

- Poster-12 ANALYSIS OF MUTANTS OF  $\alpha$ -SKELETAL MUSCLE ACTIN BY *IN VIVO* ELECTROPORATION  
Mark Corbett, Mai-Anh Nguyen, Majid Ghoddusi, Kristen Nowak, Sandra Cooper, Peter Gunning, Nigel Laing, Kathryn North & Edna Hardeman
- Poster-13 DEVELOPMENTAL CHANGES IN FEEDING-INDUCED REGULATION OF CIRCULATING IGF-BINDING PROTEIN COMPLEXES  
Sung-Eun Kong, Robert Baxter & Patric Delhanty
- Poster-14 A p53 MUTATION IDENTIFIED IN HEAVY METAL-SELECTED NEUROBLASTOMA CELLS CONFERS MULTIDRUG RESISTANCE  
Claudia Flemming, Chengyuan Xue, Richard Lock, Glenn Marshall, Bernard Stewart, David Bowtell, Andrew Holloway, Michelle Haber & Murray Norris
- Poster-15 *IN VITRO* AND *IN VIVO* EFFECTS OF INSULIN-LIKE GROWTH FACTOR BINDING PROTEINS ON HUMAN BREAST CANCER CELLS  
Kristie Fraley, Robert Baxter, Sue Firth, Fiona McDougall & Alison Butt
- Poster-16 ISOLATION OF TOTAL RNA FROM FROZEN ARCHIVAL TISSUE FOR APPLICATION TO LASER CAPTURE MICRODISSECTION MICROSCOPY AND MICROARRAY ANALYSIS  
Dachuan Guo, Belinda Cutri & Daniel Catchpoole
- Poster-17 INVESTIGATION OF THE CARDIAC REGULATORY PATHWAY MEDIATED BY TBX20 IN THE MOUSE  
Saskia Haast, Fiona Stennard & Richard Harvey
- Poster-18 COORDINATE CHANGES IN GENE EXPRESSION ASSOCIATED WITH DRUG AND RADIATION RESISTANCE IN SMALL CELL LUNG CANCER  
Sheridan Hennessy, Mary Davey, Rozelle Harvie, Valerie Wasinger, Garry Corthals, Joanne Banyer & Ross Davey
- Poster-19 INVESTIGATING ALTERNATIVE LENGTHENING OF TELOMERES (ALT) IN HUMAN TUMOURS BY DETECTION OF ALT-ASSOCIATED PML BODIES  
J Henson, T Yeager, R Robinson, J Yoo, D Jellinek, S Wharton, J Royds, R Reddel
- Poster-20 ASTROCYTOMA CELL LINE SPECIFIC EFFECTS OF TROPOMYOSIN 1 ON CYTOSKELETAL ORGANISATION, ANCHORAGE, AND CYTOKINESIS  
Julie Hughes, Peter Gunning & Ron Weinberger
- Poster-21 THE DIRECT PATHWAY OF T-CELL SENSITIZATION PLAYS A CRITICAL ROLE IN ORCHESTRATING THE IMMUNE RESPONSE OF HIGH RISK CORNEAL TRANSPLANTS  
S Hug, Y Liu, Ben Illigens, Ying Qian, Gilles Benichou & Reza Dana
- Poster-22 NUCLEAR ORGANISATION OF FUNCTIONALLY RELATED GENES IN THE INTERPHASE NUCLEUS  
Dilesh Jogia, Spiro Penev & David Martin
- Poster-23 IL-17 POTENTIATES TNF $\alpha$ -INDUCED, BUT NOT IL-1 $\beta$ -INDUCED, IL-6 SECRETION FROM HUMAN AIRWAY SMOOTH MUSCLE CELLS  
Colleen Johnson, Margaret Hughes & Alaina Ammit

- Poster-24 SEROLOGICAL EVIDENCE OF HUMAN BORNA DISEASE VIRUS INFECTION IN AUSTRALIA  
Sandra Kamhieh, Liv Bode, Hanns Ludwig, Wayne Bolton, Jennifer Hodgson & Robert Flower
- Poster-25 THE PRESENCE OF HIGH RISK HPV16E7 TRANSFORMING GENE RESULTS IN STABILISATION OF p53 PROTEIN HALF LIFE  
Chin-Yi Kan & Noel Whitaker
- Poster-26 BI-PHASIC CAMPTOTHECIN-INDUCED HL-60 APOPTOSIS: A HYPOTHESIS  
Malcolm King & Monica Radicchi-Mastroianni
- Poster-27 MEASURING MINIMAL RESIDUAL DISEASE IN CHILDHOOD LEUKAEMIA USING REALTIME PCR  
Edward Kwan, Anita Bahar, Nicola Venn, Ling Zhu, Rosemary Sutton, Glenn Marshall, Michelle Haber & Murray Norris
- Poster-28 THE EFFECT OF ALTERED IGF-II/M6P RECEPTOR ON TUMORIGENESIS OF MDA-MB-231 BREAST CANCER CELLS  
Jason Lee, Jocelyn Weiss, Anusha Hettiarachi, Janet Martin & Carolyn Scott
- Poster-29 IDENTIFICATION OF RETINOID RESPONSIVE GENES  
Michelle Lee, Stewart Smith, Belamy Cheung, Joanne Yan, Maria Kavallaris, Murray Norris, Michelle Haber & Glenn Marshall
- Poster-30 EXTENTION OF PGF TECHNOLOGY TO ALLOW IMMUNOCOMPATABLE IDENTIFICATION OF HUMAN EMBRYOS  
D Leigh, S McArthur, K de Boer & R Jansen
- Poster-31 COMPARISON OF CMV, GADD, M2.6 AND SV40 PROMOTERS FOR RECOMBINANT PROTEIN PRODUCTION USING A TRANSIENT EXPRESSION SYSTEM IN CHO CELLS  
Mimi Liao, Peter Gray & Noelle Sunstrom
- Poster-32 VOLTAGE GATED SODIUM AND CHLORIDE CHANNELS IN UTERINE EPITHELIAL CELLS DURING EARLY PREGNANCY  
Laura Lindsay & Christopher Murphy
- Poster-33 EFFECTS OF A COMMON POLYMORPHISM IN A SKELETAL MUSCLE GENE ON ATHLETIC PERFORMANCE  
Daniel MacArthur, Nan Yang, Jason Gulbin & Kathryn North
- Poster-34 OXIDATIVE STRESS MODULATES THE REPLICATIVE LIFESPAN OF HUMAN FIBROBLASTS AND ENDOTHELIAL CELLS TRANSDUCED WITH THE CATALYTIC SUBUNIT OF TELOMERASE (hTERT)  
Alexander James, Tracey O'Brien & Karen MacKenzie
- Poster-35 IDENTIFICATION OF GLUTATHIONE-S-TRANSFERASE  $\pi$  AS A GENE MEDIATING POOR OUTCOME IN PRIMARY CHILDHOOD  
Janice Madafiglio, Glenn Marshall, Murray Norris & Michelle Haber
- Poster-36 A TRUNCATED FORM OF  $\alpha$ -ACTININ 3 IS CYTOTOXIC WHEN EXPRESSED IN A CELL CULTURE SYSTEM  
Adam Maxwell, Sandra Cooper, Nan Yang & Kathryn North

- Poster-37     PROTEOMIC STUDIES PROVIDE EVIDENCE FOR INVOLVEMENT OF HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS (hnRNPs) IN TELOMERE MAINTENANCE  
Lyndal McLure, Brad Walsh & Roger Reddel
- Poster-38     A TARGETED GENE THERAPY FOR MEDULLARY THYROID CARCINOMA  
Marinella Messina, Denise Yu, Diana Learoyd, Gerald Both, Peter Molloy & Bruce Robinson
- Poster-39     MATERNAL ASTHMA AFFECTS FEMALE FETAL GROWTH AND IS ASSOCIATED WITH REDUCED PLACENTAL 11 $\beta$ -HSD2 ACTIVITY AND ALTERED SENSITIVITY TO CORTISOL  
Vanessa Murphy, Peter Gibson, Warwick Giles, Tamas Zakar, Roger Smith, Carolyn Kessell & Vicki Clifton
- Poster-40     INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN-3 MODULATES RETINOIC ACID-SENSITIVITY IN BREAST CANCER CELLS  
Michelle O'Han, Lyn Schedlich & Robert Baxter
- Poster-41     THE EFFECT OF FETAL SERUM ON THE SYNTHETIC FUNCTION OF THE BRONCHIAL SMOOTH MUSCLE  
Annette Osei-Kumah, Roger Smith, Qi Ge, Alaina Ammit & Vicki Clifton
- Poster-42     LACK OF RELATIONSHIP BETWEEN CYCLOSPORIN A CLEARANCE AND *MDR1* GENOTYPE IN RENAL TRANSPLANT PATIENTS  
Janelle Hoskins, Marina Pajic, Han Qin, Geoffrey Duggin & Laurent Rivory
- Poster-43     AMINO- AND CARBOXYL-TERMINAL DOMAINS OF IGFBP-3 COOPERATE TO FORM HIGH AFFINITY IGF BINDING COMPLEXES  
Louis Payet, Xiu-hong Wang, Sue Firth & Robert Baxter
- Poster-44     ZOLEDRONIC ACID IMPROVES SHORT-TERM OUTCOME IN TRAUMATIC OSTEONECROSIS IN YOUNG WISTAR RATS  
Rachel Peat, Anthony McEvoy, Paul Williams, Paul Baldock, Elisabeth Smith & David Little
- Poster-45     FAS-FAS LIGAND INTERACTIONS: CRITICAL MEDIATORS IN MURINE CEREBRAL MALARIA  
S Potter, A Hansen & N Hunt
- Poster-46     DIFFERENTIAL EFFECTS OF TROPOMYOSIN ISOFORMS ON NEURONAL MORPHOGENESIS  
Galina Schevzov, Rowena Almonte-Baldonado, Josephine Joya, Edna Hardeman, Peter Gunning & Ron Weinberger
- Poster-47     T-LYMPHOCYTES FROM NON-ASTHMATIC AND ASTHMATIC DONORS - ACTION OF BUDESONIDE AND FORMOTEROL ON PROLIFERATION  
Celina Seeto, Michael Roth, Margaret Hughes, Paul Seale & Carol Armour
- Poster-48     THE ONTOGENY OF HSP 70.1 EXPRESSION IN HUMAN IN VITRO FERTILIZED EMBRYOS  
T Stojanov, D Leigh, S Catt & J Catt
- Poster-49     *IN VITRO* EFFECTS OF BLEOMYCIN IN PULMONARY FIBROBLASTS: A MODEL FOR PULMONARY FIBROSIS AND THE ROLE OF CONNECTIVE TISSUE GROWTH FACTOR  
Emily Stone, Stephen Twigg, Norbert Berend, Robert Baxter & Janet Martin

- Poster-50 DEVELOPMENT OF HIGH THROUGHPUT METHODS FOR THE CLONAL SELECTION OF RECOMBINANT CHO CELLS  
Sasha Tait, Charles Bailey, Andrea Herbert, Peter Gray & Noelle-Anne Sunstrom
- Poster-51 ALTERNATIVELY SPLICED ISOFORMS OF THE NOVEL MUSCLE TRANSCRIPTION FACTOR MusTRD  
Enoch Tay, Kim Guven, Laura Issa, Patsie Polly, Kata Popovic & Edna Hardeman
- Poster-52 CHROMOSOMAL COPY NUMBER IMBALANCES IN FOLLICULAR THYROID ADENOMAS (FTAs) AND CARCINOMAS (FTCs) - SIMILAR PATTERNS OF CHROMOSOMAL ABERRATIONS IN A SUBSET OF FTCS WITH MULTIPLE IMBALANCES  
George Theodosopoulos, Jeanette Phillips, Leigh Delbridge, Bruce Robinson & Deborah Marsh
- Poster-53 RETROTRANSPOSON ACTIVITY IN SOMATIC CELLS OF HUMANS: AN *IN SILICO* ANALYSIS  
Gabrielle Thomson & David Martin
- Poster-54 PREDICTING THE PHARMACOKINETICS OF ANTIBIOTICS IN HUMANS USING ARTIFICIAL NEURAL NETWORKS  
Joseph Turner, Snezana Agatonovic-Kustrin, Des Maddalena & David Cutler
- Poster-55 LOCALISATION OF TROPOMYOSIN ISOFORMS DURING MOUSE DEVELOPMENT AND THE ESTABLISHMENT OF ISOFORM-SPECIFIC KNOCKOUTS  
Bernadette Vrhovski, Frances Lemckert, Ron Weinberger & Peter Gunning
- Poster-56 CLONAL DERIVATIVES OF THE Hs578T BREAST CANCER CELL LINE EXHIBIT DIFFERENTIAL SENSITIVITY TO GROWTH FACTORS  
Sarah Weenink, Stacey Pattison & Janet Martin
- Poster-57 THE CYTOCHROME P450 (CYP) 3A5\*3 SINGLE NUCLEOTIDE POLYMORPHISM AND CHEMOTHERAPY DOSAGE DETERMINATION  
Mark Wong, Rosemary Balleine, Steve Ackland, Michael Collins, Christine Clarke, Christopher Liddle & Howard Gurney
- Poster-58 EXPRESSION PROFILES OF STRUCTURAL PROTEINS IN CHILDHOOD CANCER NEUROBLASTOMA  
Melissa Yager, Geraldine O'Neill & Ron Weinberger
- Poster-59 MUTATIONS OF INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN-3 REDUCE ITS BINDING TO INSULIN-LIKE GROWTH FACTORS  
Xiaolang Yan, Robert Baxter & Sue Firth
- Poster-60 CHANGES IN THE DISTRIBUTION AND PROTEIN BINDING OF TACROLIMUS AT EARLY POST TRANSPLANT PHASE  
H Zahir, G McCaughan, M Gleeson, R Nand & A McLachlan