

6th AGTS Meeting SCIENTIFIC PROGRAM

WEDNESDAY, 29th APRIL, 2009

09.00-10.00 Registration, Tea/Coffee, Poster set-up.

10.00-10.15 **Welcome and Opening Address**

Dr Gerry Both — President of AGTS
Kerry Packer Education Centre (KPEC) Auditorium

10.15-12.00 **Scientific Session 1: Muscle disorders**

Chair: Jim Vadolas
KPEC Auditorium

10:15-11:00 Keynote Speaker 1: **Prof Jeff Chamberlain**: Gene therapy for muscular disorders.

11.00-11.15 Induced non-productive splicing to study muscle gene expression.
Sue Fletcher (O1)

11.15-11.30 Using rAAV-vector mediated gene transfer to study and potentially treat muscle wasting. **Paul Gregorevic** (O2)

11.30-11.45 Effects of dose and empty capsids on rAAV6 gene delivery to striated muscle in mice. **Brian Schultz** (O3)

11.45-12.00 Exceptions to the Reading Frame Rule in DMD: Will exon skipping be relevant? **Kane Greer** (O4)

12.00-13:30 **Lunch** RL Harris Room Balcony

Trade Display RL Harris Room

Poster Session 1 (2 minute presentation/ 2 minute discussion)

Large Conference Room

13.30-14.45 **Scientific Session 2: RNA-based gene therapy**

Chair: Sue Fletcher
KPEC Auditorium

13.30-14.15 Keynote Speaker 2: **Prof Steve Wilton**: Splice switching therapies as personalized genetic treatments: applications to thalassemia, muscular dystrophy and spinal muscular atrophy.

14.15-14.30 siRNA-mediated reduction of α -globin: Applications in β -thalassemia.
Jim Vadolas (O5)

14.30-14.45 Cationic liposome-carbonate apatite conjugates: Novel hybrid carrier for mRNA-based gene therapy. **Fatema T. Zohra** (O6)

14:45-15.30 **Scientific Session 3: Gene therapy for eye disease**

Chair: Steve Wilton
KPEC Auditorium

14.45-15.15 Triumphs & Tribulations of a Gene Therapy Trial. **Elizabeth Rakoczy** (O7*)

15.15-15.30 A steroid-inducible promoter for lentivirus-mediated transduction of the cornea. **Keryn Williams** (O8)

WEDNESDAY, 29th APRIL, 2009

- 15.30-17.20** **Afternoon Tea** RL Harris Room Balcony
Trade Display RL Harris Room
Poster Session 2 (2 minute presentation/ 2 minute discussion)
Large Conference Room
- 17.30-19.30** **Public Outreach Session at the Centenary Institute**
Gene Therapy, Genetic Risk and Cancer
Chair: Gabrielle O'Sullivan
Level 6, Lecture Theatre
- Gerry Both** Introduction to gene therapy; Success and Challenges
Caroline Breitbach Cancer therapy using live viruses
Prof John Hopper Genetic risk and cancer
- 19.30- 20.30** **Mixer at Centenary Institute**
Level 6, Lecture Theatre Foyer

THURSDAY, 30th APRIL, 2009

08.30-09.30 **Scientific Session 4: Integrating Vectors**

Chair: Ann Simpson

KPEC Auditorium

08.30-08.45 Ty3 yeast retrotransposon integrase activity in human cells.

Nicholas Casey (O9)

08.45-09.00 Suppression of clonal dominance in cultured human lymphoid cells by addition of the cHS4 insulator to a lentiviral vector.

Marguerite Evans-Galea (O10)

09.00-09.15 Site-specific integration of functional genomic loci: applications in gene therapy. **Jim Vadolas** (O11)

09.15-09.30 High-incidence of lymphomagenesis in SCID-x1 mice following lentiviral vector-mediated phenotype correction independent of insertional mutagenesis and γ c expression. **Samantha Ginn** (O12)

09.30-10.30 **Greg Johnson Memorial Oration**

Chair: Gerry Both

KPEC Auditorium

Keynote speaker: **Prof Pamela Russell**; A perspective on cancer gene therapy.

10.30-11.00 **Morning Tea** RL Harris Room Balcony

Trade Display RL Harris Room

Poster Session 3 (2 minute presentation/ 2 minute discussion)

Large Conference Room

11.00-12.45 **Scientific Session 5: Cancer Gene Therapy**

Chair: Gerry Both

KPEC Auditorium

11.00-11.45 Keynote Speaker 3: **Dr Caroline Breitbach**. Targeted and armed oncolytic poxviruses: a novel multi-mechanistic therapeutic class for cancer.

11.45-12.00 A combination of molecular chemotherapy and traditional chemotherapy: prospects of synergies against cancer. **Preetinder Pal Singh** (O13)

12.00-12.15 Adult stem-cell based delivery of a prostate cancer gene therapy.

Rosetta Martiniello-Wilks (O14)

12.15-12.30 RNA interference for the treatment of cervical cancers: Solving the delivery and efficacy issues. **Nigel A. J. McMillan** (O15)

12.30-12.45 New approaches in developing gene transfer vectors for the therapy of solid tumours. **Ming Q Wei** (O16)

12.45-13.45 **Lunch** RL Harris Room Balcony

Trade Display RL Harris Room

Poster Session 4 Large Conference Room

THURSDAY, 30th APRIL, 2009

- 13.45-15.45 Scientific Session 6: Single gene targets**
Chair: Ian Alexander
KPEC Auditorium
- 13.45-14.30 Keynote Speaker 4: **Dr Anthony Gringeri:** Lipoprotein lipase gene therapy using AAV vectors.
- 14.30-14.45 Production and rescue of a severe phenotype of ornithine transcarbamylase deficiency in the *spf^{ash}* mouse model using adeno-associated viral vectors and RNAi technology. **Sharon Cunningham** (O17)
- 14.45-15.15 Facing the bleeding obvious:AAV-mediated gene therapy for Haemophilia B. **John Rasko** (O18*)
- 15.15-15.30 An astrocyte-dorsal root ganglion co-culture model to assess neurite outgrowth from lentiviral vector expressed Neurotrophin-3. **Padraig Strappe** (O19)
- 15.30-16.00 Afternoon Tea** RL Harris Room Balcony
Trade Display RL Harris Room
Poster Session 5 (Poster Award Final Decision by Panel)
Large Conference Room
- 16.00-17.30 Australasian Gene Therapy Society Annual General Meeting**
KPEC Auditorium
- 17.30-18.00** Taxis leaving from front of Kerry Packer Education Centre to Pier 26, Darling Harbour (Wheat Road in front of Sydney Aquarium)
- 18.30-22.30 Tour and Conference Dinner Cruise**
Aussie Legend Cruiser on Sydney Harbour
Boarding begins 6.30pm Pier 26, **departs 7.00pm.**
Disembark 10.30pm Pier 26.

FRIDAY, 1st May, 2009

09.00-10.30 **Scientific Session 7: Genetic immunotherapy and Diabetes**

Chair: Ming Wei

KPEC Auditorium

09.00-09.30 Gene-modified leukocytes for cancer therapy. **Michael Kershaw** (O20*)

09.30-09.45 Gene therapy for the induction of immunological tolerance in autoimmune disease. **Frank Alderuccio** (O21)

09.45-10.00 Modulation of central tolerance mechanisms by intrathymic gene transfer ameliorates auto-immune-mediated CNS damage. **Chris Siatskas** (O22)

10.00-10.30 Liver-directed gene therapy results in the permanent reversal of autoimmune diabetes in non-obese diabetic mice. **Ann Simpson** (O23*)

10.30-11.00 **Morning Tea** RL Harris Room Balcony

Trade Display RL Harris Room

Poster Session 5 Large Conference Room

11.00-13.30 **Scientific Session 8: Molecular Imaging for cell and gene therapy**

Chair: Rosetta Martiniello-Wilks

KPEC Auditorium

11.00-11.45 Keynote speaker 5: **Dr Shahriar Yaghoubi**: Application of molecular imaging in gene and cell therapy

11.45-12.00 Incorporating 2A peptide sequences into lentiviral vectors for efficient molecular imaging *in vivo*. **Chuck Bailey** (O24)

12.00-12.30 Rejuvenation of the thymus combined with gene manipulation of stem cells: a novel approach to treating autoimmunity and AIDS: **Richard Boyd** (O25*)

12.30-13.00 Phase II Safety and Efficacy of OZ1: Retroviral Vector anti-*tat/vpr* Ribozyme for HIV-1. **Janet Macpherson** (O26*)

13.00-13.15 Development of hybrid systems for cell-mediated muscle regeneration: advanced electromaterials and wet-spun biodegradable fibers.
Robert MI Kapsa (O27)

13.15-13.30 **Panos Ioannou Young Investigator Award & Student Prizes**

KPEC Auditorium

13.30-13.40 **Closing remarks by the newly elected President**

KPEC Auditorium

Note: "Poster-Walkabout"

In the first poster sessions, there will be a "poster walk-about", where 2 chairs will introduce each poster and presenting author, who will then give a 2 minute summary of their work followed by 2 minutes of question and answers. Timing will be enforced as these sessions are intended to provide an overview of all posters, with more questions and detailed discussions followed up in subsequent poster sessions.

Note: Seminar Room 4.6

Is available to AGTS Speakers for their presentation preparation.

Note: All oral powerpoint presentations should be provided to the Audio Visual Operator 30 minutes before activities begin each day (7-30am-8.30am).