Sunday 19 April, 2015

2:00pm – 5:00pm Registration at Brisbane Convention and Exhibition Centre (Boulevard Level, Grey Street Entrance, South Bank)

Monday 20 April, 2015

7:30am – 5:00pm Registration (Boulevard Level, Grey Street Entrance, South Bank)

Welcome and Acknowledgements

8:30am – 8:35am Introduction and Acknowledgements – Rajiv Khanna

8:35am – 8:45am Welcome – The Right Honourable The Lord Mayor of Brisbane, Councillor Graham Quirk

Session I: Inaugural Session (Chair: William Rawlinson)

8:45am – 8:50am Presentation of Congenital CMV Award

8:50am – 9:15am (1) Inaugural Address – Suresh Boppana (UAB) – Global burden of congenital CMV infection

9:15am – 9:40am (2) Keynote Lecture I – Kate Daly (CCAA) and Janelle Greenlee (USA Stop CMV) – How CMV affected my family, congenital CMV and consequences

9:40am – 10:10am Panel Discussion – Congenital CMV and Clinical and Community Effects
Moderator: William Rawlinson
Panel: Gail Demmler, Michelle Giles, Pam Palasanthiran and Mark Schleiss

10:10am – 10:30am Morning Tea (Boulevard Foyer)
### Session II: Congenital CMV – Population studies  
(Chair: Suresh Boppana and Helen Farrell)

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:30am – 10:50am</td>
<td>(3) Invited Lecture I – Tiziana Lazzarotto – From screening to diagnosis of active human cytomegalovirus infection during pregnancy</td>
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<tr>
<td>10:50am – 11:10am</td>
<td>(4) Invited Lecture II – David Kimberlin – Therapy of neonates for congenital CMV</td>
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<td>11:10am – 11:22am</td>
<td>(5) Sara Doutre – CMV public health initiatives: A legislative approach</td>
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<td>11:23am – 11:35am</td>
<td>(6) Maurizio Zavattoni – Maternal human cytomegalovirus DNAemia as a prognostic marker of fetal infection</td>
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<td>11:36am – 11:48am</td>
<td>(7) Fleurtje Schornagel – Congenital cytomegalovirus: Clinical and laboratory aspects and hearing loss in asymptomatic infants, the CONCERT study</td>
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<td>11:49am – 12:01pm</td>
<td>(8) Hayley Smithers-Sheedy – Neuroimaging findings in a series of children with cerebral palsy and congenital cytomegalovirus infection</td>
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<td>12:02pm – 12:14pm</td>
<td>(9) Klaus Hamprecht – CMV HIG therapy: Lessons from comprehensive CMV antibody monitoring</td>
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<td>12:14pm – 12:26pm</td>
<td>(10) Marianne Leruez-Ville – In UTERO treatment of cytomegalovirus congenital infection with valacyclovir (CYMEVAL II) NCT01651585</td>
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<td>12:30pm – 1:30pm</td>
<td>Lunch (Boulevard Foyer) – (Sponsor Name TBA)</td>
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| 12:35pm – 1:30pm | Lunchtime Workshop (Arbour Boardroom)  
*Please collect your lunch from the Boulevard Foyer and bring this along to the workshop |
|                | Neonatal Screening – Outcomes of US and Consensus Recommendations Meeting – Karen Fowler, Janelle Greenlee, David Kimberlin, Mark Schleiss and Kate Daly |

### Session III: Congenital CMV – Clinical Aspects and Novel Diagnostics  
(Chair: Gail Demmler-Harrison and Brian McSharry)

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<tr>
<td>1:30pm – 1:50pm</td>
<td>(11) Invited Lecture – Paul Griffiths – Screening for congenital CMV infection</td>
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1:50pm – 2:10pm (12) Invited Lecture – Karen Fowler – (Abstract Title TBA)

2:10pm – 2:12pm (13) Tatiana Lanzieri – Sensorineural hearing loss in children with asymptomatic congenital cytomegalovirus infection identified through newborn screening followed for up to 18 years – The Houston congenital cytomegalovirus longitudinal study

2:13pm – 2:25pm (14) Liliana Gabrielli – Placental histological study in the randomized placebo-controlled trial of hyperimmune globulin – CHIP study

2:26pm – 2:48pm (15) Adriana Lopez – Cognitive outcomes of children with asymptomatic congenital cytomegalovirus (AcCMV) infection at 13-17 years of age: Houston longitudinal cohort study

2:49pm – 3:01pm (16) Swetha Pinninti – Predictors of sensorineural hearing loss (SNHL) and neurodevelopmental outcome in infants with symptomatic congenital cytomegalovirus (cCMV) infection

3:05pm – 3:30pm Afternoon Tea (Boulevard Foyer)

### Session IV: Diagnostics and Animal models for congenital CMV (Chair: Laura Gibson and Stuart Hamilton)

3:30pm – 4:00pm (17) Invited Lecture – Sheila Dollard – CMV in maternal breast milk may complicate testing of newborn saliva and the need for novel diagnostic strategies for congenital CMV

4:00pm – 4:20pm (18) Invited Lecture – Mark Schleiss – Animal models of transmission of congenital CMV

4:20pm – 4:32pm (19) Stephanie Bialek – Outcomes of infants with congenital cytomegalovirus infection identified through newborn screening in Shandong Province, China, 2011-2013

4:33pm – 4:45pm (20) Gail Demmler-Harrison – Hearing device interventions in children with congenital cytomegalovirus infection (cCMV) and sensorineural hearing loss 9SNHL – The Houston congenital cytomegalovirus longitudinal study

4:46pm – 4:58pm (21) Lalit Dar – Congenital Cytomegalovirus Infection, permanent congenital or early-onset hearing loss and connexion gene mutations in rural North India

4:59pm – 5:11pm (22) Yeon Choi – Live vaccine strategies demonstrate the potential importance of humoral responses to the pentameric complex in the guinea pig congenital CMV model

5:12pm – 5:24pm (23) Alistair McGregor – Restoration of epithelial tropism in lab adapted guinea pig CMV (GPCMV) results in a virus with greater
pathogenicity in both seropositive and negative animals as well as increased congenital infection rates

Welcome Drinks
Poster Session – I
(Boulevard Foyer)
5:30pm – 7:00pm
Session V: Pathogenesis of congenital CMV infection
(Chair: Thomas Stamminger and Cheryl Jones)

8:30am – 9:00am  (24) Keynote Lecture II – Geoffrey Shellam – Pathogenesis studies and congenital transmission: insights from the murine cytomegalovirus mouse model

9:00am – 9:20am  (25) Invited Lecture – Lenore Pereira – Human cytomegalovirus infection interferes with the maintenance and differentiation of trophoblast progenitor cells of the human placenta

9:20am – 9:32am  (26) Wendy van Zuijlen – Human cytomegalovirus-induced deregulation of Wnt signalling as contributor to congenital CMV disease

9:33am – 9:45am  (27) Vanda Juranic Lisnic – MCMV encoded highly abundant transcript with several coding, non-coding and immune-evasive roles

9:46am – 9:58am  (28) Shannon Ross – Laboratory and neuroimaging evaluation of asymptomatic infants with congenital CMV infection: Findings from the NIDCD CHIMES study

9:59am – 10:11am  (29) Brian McSharry – Abrogation of the interferon response promotes more efficient human cytomegalovirus replication

10:12am – 10:24am  (30) Chéneau Coraline – DC-SIGN interacts with the HCMV envelope glycoprotein B through its lectin domain but may not be sufficient to account for the overall avidity of the lectin for HCMV particles

10:30am – 11:00am  Morning Tea (Boulevard Foyer)

Session VI: Immunology and congenital infection
(Chair: Mark Wills and John Miles)

11:00am – 11:20am  (31) Invited Lecture – Stipan Jonjic – Pathogenesis of cytomegalovirus infection in ovary: Mechanisms of differential resistance of corpora lutea and follicles to infection

11:20am – 11:40am  (32) Invited Lecture – Laura Gibson – Neonatal adaptive immune responses to cytomegalovirus
11:40am – 11:52am  (33) Kristy Bialas – Maternal CD4+ T cell depletion enhances congenital rhesus CMV disease

11:53am – 12:05pm  (34) Selmir Avdic – Human cytomegalovirus encoded cmvIL-10 induces human IL-10 protein secretion via induction of heme oxygenase 1

12:06pm – 12:18pm  (35) Heidi Burke – Crystal structure of HCMV gB ectodomain

12:19pm – 12:31pm  (36) Albert Park – An ineffective natural killer cell response and reactive species production mediate CMV induced hearing loss in a murine model

12:32pm – 12:44pm  (37) Stuart Adler – A phase 1 study of 4 live, recombinant human cytomegalovirus towne/toledo chimeric vaccines

12:45pm – 12:57pm  (38) David Anderson – Preclinical evaluation of a prophylactic human cytomegalovirus vaccine designed to prevent congenital infection using enveloped virus-like-particles (eVLPs)

1:00pm – 2:00pm  Lunch (Boulevard Foyer) – (Sponsor Name TBA)

Session VII: Virus-Host Interactions in Congenital CMV Infection  
(Chair: Mark Schleiss and Selmir Avdic)

2:00pm – 2:20pm  (39) Invited Lecture – Timothy Kowalik – Application of deep sequencing and population genetics to quantify HCMV reinfection

2:20pm – 2:40pm  (40) Invited Lecture – Sophie Alain – CMV in childcare and other high risk situations

2:40pm – 3:10pm  Panel Discussion – Treatment of Congenital CMV Infection  
Moderator: William Rawlinson  
Panel: Stuart Adler, Paul Griffiths, Lisa Hui and Giovanni Nigro

3:10pm – 3:22pm  (41) Eric Sonntag – Understanding the function by mapping the interaction domains of the cytomegalovirus-specific nuclear egress complex

3:22pm – 3:34pm  (42) Carolyn Tu – HCMV UL111A and US27 synergize to enhance signaling of CXCR4

3:45pm – 4:00pm  Afternoon Tea (Boulevard Foyer)

Session VIII: Vaccine Strategies to Prevent CMV Infection  
(Chair: Paul Griffiths and Wendy Vanzuijlen)

4:00pm – 4:20pm  (43) Invited Lecture – Stanley Plotkin – Candidate vaccines against cytomegalovirus
4:20pm – 4:40pm  (44) Invited Lecture – Tong-Ming Fu – A replication defective human cytomegalovirus (CMV) vaccine

4:40pm – 5:52pm  (45) Felix Wussow – Human cytomegalovirus vaccine based on the envelope gH/gL pentamer complex

4:53pm – 5:05pm  (46) Michael McVoy – A vaxfectin®- Formulated DNA vaccine induces antibodies that block cytomegalovirus entry into fibroblasts and epithelial cells

5:06pm – 5:18pm  (47) Yujuan Yue – Protective efficacy of gH/L complex and gH/L/UL128/UL130/UL131 pentamer based vaccines against orally challenged RhCMV

5:18pm – 5:30pm  (48) Daniele Lilleri – Antibody-driven vaccine design: The human cytomegalovirus gHgLpUL128L complex as a subunit vaccine that selectively elicits potent neutralizing antibodies

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Public Forum – I (Boulevard Auditorium)

6:00pm – 7:30pm  Cytomegalovirus: Every Pregnant Woman and Their Doctor Should Know About This Virus
Moderator: William Rawlinson
Parents Perspective: Kate Daly and Abby Coleman
Transmission and Effects on the Baby: Mark Schleiss
New Therapies and Vaccines: Stanley Plotkin
Q&A Session: “CMV, Screening, Pregnancy, and Birth Defects” led by Janelle Greenlee
### Session IX: CMV Latency and Reactivation
(Chair: Barry Slobedman and Lenore Pereira)

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<tr>
<td>8:30am – 9:00am</td>
<td>(49) <strong>Keynote Lecture III – John Sinclair</strong> – HCMV latency - changes in the latently infected cell as targets to clear latent infection</td>
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<td>9:00am – 9:12am</td>
<td>(50) <strong>Benjamin Krishna</strong> – The latency-associated expression of the human cytomegalovirus US28 gene allows targeting of latently infected cells with a novel immunotoxin</td>
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<td>9:13am – 9:25am</td>
<td>(51) <strong>Anne L'Hernault</strong> – Identification of cellular and viral genes regulated by murine cytomegalovirus miRNAs during lytic infection using RIP-Chip and PAR-CLIP</td>
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<td>9:26am – 9:38am</td>
<td>(52) <strong>Emily Machala</strong> – Human cytomegalovirus differentially regulates the immunomodulatory proteins galectin-1 and galectin-9</td>
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<td>9:39am – 9:51am</td>
<td>(53) <strong>Rhonda Cardin</strong> – Murine cytomegalovirus infects hematopoietic progenitors, monocytes, dendritic cells, and stromal cells during latent infection</td>
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<td>9:52am – 10:04am</td>
<td>(54) <strong>Baca Chan</strong> – The MCMV protein M35 is a novel negative regulator of the type I IFN response</td>
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<td>10:05am – 10:17am</td>
<td>(55) <strong>Wolfram Brune</strong> – Identification of a new cytomegalovirus host range determinant</td>
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<td>10:18am – 10:30am</td>
<td>(56) <strong>Late Breaking Abstract</strong></td>
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<td>10:30am – 11:00am</td>
<td><strong>Morning Tea (Boulevard Level)</strong></td>
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### Session X: CMV and Transplantation
(Chair: Manfred Marschall and Nick Davis-Poynter)

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<tr>
<td>11:00am – 11:20am</td>
<td>(57) <strong>Invited Lecture – Per Ljungman</strong> – CMV in allogeneic stem cell transplant recipients; friend or foe?</td>
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<tr>
<td>11:20am – 11:40am</td>
<td>(58) <strong>Invited Lecture – Vince Emery</strong> – Pathogenesis and immune control of CMV in the immunocompromised host</td>
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11:40am – 11:52am  
(59) **Sophie Alain** – Bridging the gap: Benefits and emergence of resistance using maribavir as rescue therapy in European transplant recipients

11:53am – 12:07pm  
(60) **Angela Chiereghin** – Monitoring of cytomegalovirus-specific CD8+ T-cell responses using the QuantiFERON®-CMV assay in heart transplant (HT) recipients

12:08pm – 12:20pm  
(61) **Sebastian Voigt** – Interaction of endogenous and CMV-encoded gamma-chemokine XCL1 with XCR1+ dendritic cells

12:21pm – 12:33pm  
(62) **Sarah Jackson** – Direct control of viral dissemination by HCMV specific CD8+ T cells

12:34pm – 12:46pm  
(63) **Niels Bovenschen** – Cytotoxic lymphocyte proteases hit cytomegalovirus from different angles

12:47pm – 12:59pm  
(64) **Luka Cicin-Sain** – Peptide expression context determines direct T-cell priming potential, memory inflation and immune protection against CMV

1:00pm – 2:00pm  
Lunch (Boulevard Level) – “QIAGEN – Comprehensive CMV Monitoring”

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**Session XI: Virus Gene Expression and Proteomics**  
(Chair: Stuart Adler and Tiziana Lazzarotto)

2:00pm – 2:20pm  
(65) **Invited Lecture** – Gavin Wilkinson – UL141: A busy gene that gets lost

2:20pm – 2:40pm  
(66) **Invited Lecture** – Deborah Spector – Transcripts, transcripts everywhere – how do we make sense of it all?

2:40pm – 3:00pm  
(67) **Invited Lecture** – Michael Weekes – Megaproteomic analysis of the human cytomegalovirus US12 gene family

3:00pm – 3:12pm  
(68) **Vu Thuy Khanh Le** – Mutational analysis of proteins interacting with the MCMV-encoded interferon antagonist pM27

3:13pm – 3:25pm  
(69) **Simone Forbes** – Characterisation of a recombinant human cytomegalovirus encoding interferon beta

3:26pm – 3:38pm  
(70) **Fenyong Liu** – Human cytomegalovirus capsid assembly protein interacts with human small ubiquitin-like modifier (SUMO)-conjugating E2 enzyme UBC9

3:40pm – 4:00pm  
Afternoon Tea (Boulevard Level)
Session XII: Pathogenesis and Genomics
(Chairs: Gavin Wilkinson and Mariapia Degli-Esposti)

4:00pm – 4:20pm  (71) Invited Lecture – Andrew Davison – High-throughput sequencing of HCMV geonomes

4:20pm – 4:40pm  (72) Invited Lecture – Thomas Stamminger – Human cytomegalovirus IE1: An enigmatic regulatory protein antagonizing innate immune defense mechanisms

4:40pm – 4:52pm  (73) Jonathan Lau – Human cytomegalovirus latency-associated protein LUNA regulates latent viral gene expression in association with the myeloid transcription factor GATA-2

4:53pm – 5:05pm  (74) Matthew Reeves – The role of Src-family kinases in human cytomegalovirus reactivation

Weller-Smith Oration
(Chair: Barry Slobedman)

5:05pm – 5:45pm  Thomas Weller Orator – Ed Mocarski

Poster Session – II
(Boulevard Foyer)
5:45pm – 7:00pm

Public Forum – II (Boulevard Auditorium)

7:00pm – 8:00pm  Organ Transplantation – Emerging Technologies and Improved Transplants
Moderator: David Gottlieb
Patient’s Perspective: Matty Hempstalk
Panel: Jeremy Chapman AC, Per Ljungman and Vince Emery
Thursday 23 April, 2015

7:30am – 5:00pm Registration
(Boulevard Level, Grey Street Entrance, South Bank)

Session XIII: Innate and Adaptive Immune Regulation
(Chair: Vincent Emery and Corey Smith)

8:30am – 9:00am (75) Invited Lecture – Mariapia Degli-Esposti – (Abstract Title TBA)

9:00am – 9:20am (76) Invited Lecture – Mark Wills – Human Cytomegalovirus the paradox of immune evasion and control

9:20am – 9:40am (77) Klaas van Gisbergen – Transcriptional regulation of CMV-specific CD8 T cells

9:41am – 9:53am (78) Marion Griessl – Identification of extensive transcriptional activity in cytomegalovirus latency that follows stochastic patterns - A potential link to `memory inflation´

9:54am – 10:08am (79) Stephen Spector – Cytomegalovirus specific CX3CR1 expressing CD4+ cells express high levels of IFNγ and markers of immune activation suggesting a role in increased risk for cardiovascular disease in HIV-infected persons

10:09am – 10:21am (80) John Miles – Predicting T cell receptor repertoire formation against human pathogens

10:22am – 10:34am (81) Adriana Weinberg – Circulating CD4+CD27-CD28- T cells represent a regulatory T cell subset specific to CMV-seropositive individuals

10:40am – 11.00am Morning Tea (Boulevard Foyer)

Session XIV: Antiviral Treatment for CMV
(Chair: Deborah Spector and Klaus Freuh)

11:00am – 11:20am (82) Invited Lecture – Manfred Marschall – Promising new targets for antiviral therapy of cytomegalovirus infections

11:20am – 11:40am (83) Invited Lecture – Sunwen Chou – Update on CMV drug resistance

11:40am – 11:52am (84) Ravit Arav-Boger – Targeting host cell functions to inhibit CMV replication - New horizon for CMV therapy
11:53am – 12:05pm  (85) Giada Frascaroli – Antigen presentation by macrophages is not inhibited by human cytomegalovirus and infected cells stimulate proliferation and activation of autologous T cells

12:06pm – 12:18pm  (86) Thomas Gardner – Development of a high-content platform for identification of novel CMV therapeutics

12:19pm – 12:31pm  (87) Mirko Trilling – Broad and potent antiviral activity of the neddylation inhibitor MLN4924

12:32pm – 12:44pm  (88) Ursula Gompels – Germline, chromosomally integrated human herpesvirus 6A and B genomes: Emergent infection, new inflammatory mediators and diverse origins

12:45pm – 12:57pm  (89) Meghan Eberhardt – RhCMV vIL-10: Playing a vital role in persistence and reinfection

1:00pm – 2:00pm Lunch (Boulevard Foyer) – (Sponsor Name TBA)

Session XV: CMV and New links to disease
(Chair: Cecilia Söderberg-Naucler and Andrew Davison)

2:00pm – 2:20pm  (90) Invited Lecture – Charles Cobbs – Human cytomegalovirus immediate early proteins promote glioblastoma stemness

2:20pm – 2:40pm  (91) Invited Lecture – Paul Moss – The role of CMV in immune senescence

2:40pm – 3:05pm Panel Discussion – CMV and Cancer: What we Need to do to Convince Sceptics
Moderator: Rajiv Khanna
Panel: Charles Cobbs, Cecilia Sodbergh Naucler, Robert Kalejta and Ed Mocarski

3:05pm – 3:17pm  (92) Late Breaking Abstract

3:18pm – 3:30pm  (93) Late Breaking Abstract

3:31pm – 3:43pm  (94) Late Breaking Abstract

3:45pm – 4:00pm Afternoon Tea (Boulevard Foyer)

Session XVI: Immune-Based Therapies for CMV-Associated Diseases
(Chair: Stipan Jonjic and Andrea Schuessler)

4:00pm – 4:20pm  (95) Invited Lecture – David Gottlieb – Reconstituting immunity to CMV and other pathogens after allogeneic stem cell
transplant using donor-derived and third party antigen specific T cells

4:20pm – 4:40pm  **(96) Invited Lecture – Klaus Freüh** – Development of cytomegalovirus as a vaccine vector

4:40pm – 4:52pm  **(97) Anne Halenius** – The MHC class I ligandome of HCMV infected cells reveals presentation of numerous immunogenic peptides

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**Valedictory Lectures**  
(Chair: Rajiv Khanna)

5:05pm – 5:25pm  **Ed Mocarski** – Summary and future perspectives on the molecular pathogenesis of CMV infection

5:25pm – 5:45pm  **William Rawlinson** – Meeting summation and future clinical perspectives in congenital and other CMV

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**Conference Dinner at Brisbane Convention Centre**  
(Plaza Terrace Room)  
7:00pm – 10:30pm

**Dinner Speech:** Stanley Plotkin

**Special Entertainment Event**

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**MIXXENTERTAINMENT**

DJ's - MC - SOUND SYSTEMS - LIGHTING - PHOTOGRAPHY - VIDEOGRAPHY  
STAGING - A/V HIRE - EVENT MANAGEMENT - PLANNING - VENUE
Friday 24 April, 2015

Visit to Lone Pine Sanctuary
9:00am – 2:00pm

Aussie BBQ Lunch at Lone Pine Sanctuary

Buses leave from Brisbane Convention and Exhibition Centre
at 8:45am