

Cape Town Preeclampsia Symposium

**Tuesday 7th February,
Blue Ribbon Room, Commodore Hotel, Waterfront**

08:00-10:30 Pre-clinical research

Chairs: Prof Carlos Escudero and Prof Tu'uhevaha, Kaitu'u-Lino

| | Title | Presenter |
|-------------|--|---|
| 08:00-08:20 | Welcome | A.Prof Cathy Cluver and A.Prof Lina Bergman Stellenbosch and Gothenburg University, Sweden |
| 08:20-08:35 | A preclinical pipeline to study molecules dysregulated in preeclampsia | Prof Tu'uhevaha Kaitu'u-Lino University of Melbourne, Australia |
| 08:35-08:50 | Placenta-Brain communication: what we have learnt from preclinical models | Prof Carlos Escudero, University of Bío-Bío, Chile |
| 08:50-09:05 | Identifying novel biomarkers for preeclampsia | Prof Tu'uhevaha Kaitu'u-Lino University of Melbourne, Australia |
| 09:05-09:20 | Panel discussion | |
| 09:20-09:30 | Using a translational approach to evaluate neuroprotective drugs in preeclampsia | A.Prof Lina Bergman University of Gothenburg, Sweden |
| 09:30-09:40 | Neuroinflammatory links in preeclampsia | Valentina Bucher University of Gothenburg, Sweden |
| 09:40-09:50 | tRNA fragments: circulating syncytiotrophoblast signals in early-onset preeclampsia | Dr William Cooke Oxford University |
| 09:50-10:00 | Disturbed trophoblast transition links preeclampsia progression from placenta to the maternal syndrome | Dr Olivia Nonn Berlin University, Germany |
| 10:00-10:10 | Furan fatty acids in early second trimester of women who develop preeclampsia later in pregnancy | Dr Inger Björk Ragnadottir Uppsala University, Sweden |
| 10:10-10:20 | Glycocalyx degradation products and organ dysfunction in preeclampsia | Dr Niclas Carlberg Gothenburg University, Sweden |
| 10:20-10:30 | Panel discussion | |
| TEA | | |



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11.00-17.00 **Organ complications**
Chairs: A.Prof Cathy Cluver and A.Prof Lina Bergman

| | Title | Presenter |
|-------------------------------------|---|---|
| PREECLAMPسيا IN LMIC SETTING | | |
| 11.00-11.10 | Obstetrical critical care unit at Tygerberg University Hospital | Dr Eduard Langenegger Stellenbosch University, South Africa |
| 11:10-11:20 | Treating the severely ill woman with preeclampsia | Dr Samantha Budhram Stellenbosch University, South Africa |
| 11:20-11:30 | Challenges in preeclampsia in an LMIC | Dr Amy Wise University of the Witwatersrand, South Africa |
| 11:30-11:40 | Challenges in preeclampsia in an LMIC | Dr Ntsiki Gubu-Ntaba Walter Sisulu University, South Africa |
| 11:40-11:50 | Challenges in preeclampsia in an LMIC | A.Prof Tshidi Sebitloane University of Kwazulu-Natal, South Africa |
| 11:50-12:20 | Panel Discussion | |
| LUNCH | | |
| BRAIN | | |
| 13:30-13:40 | Cerebral edema, ischemia and perfusion in preeclampsia and eclampsia | Prof Johan Wikström Uppsala University, Sweden |
| 13:40-13:50 | Cerebral biomarkers in preeclampsia | Dr Emma Bokström-Rees University of Gothenburg, Sweden |
| 13:50-14:00 | Medium-term neurological complications after preeclampsia | Dr Therese Friis Uppsala University, Sweden |
| 14:00-14:10 | Improved characterization of eclampsia (ICE) study | Dr Roxanne Hastie University of Melbourne, Australia |
| 14:10-14:30 | Panel discussion | |
| HEART | | |
| 14:30-14:40 | Cardiovascular hemodynamics in pregnancy and preeclampsia | Dr Karl Bergman University of Gothenburg, Sweden |
| 14:40-14:50 | Pulmonary edema in preeclampsia | Dr Lloyd Joubert Stellenbosch University, South Africa |
| 14:50-15:00 | Cardiovascular risk factors for preeclampsia | Dr Karl Bergman University of Gothenburg, Sweden |
| 15:00-15:20 | Panel discussion | |
| TEA | | |
| RENAL | | |
| 15:50-16:10 | Hypertensive disease of pregnancy as a future risk for chronic kidney disease in South Africa | Dr Bianca Davidson A.Prof Nicola Wearne A.Prof Erika Jones University of Cape Town, South Africa |
| 16:10-16:20 | Proteinuria in preeclampsia | Dr Amy van Rooyen Stellenbosch University, South Africa |
| 16:20-16:40 | Panel discussion | |
| WHAT NEXT | | |
| 16:40-17:00 | Discussion: How to we proceed from here? | A.Prof Cathy Cluver Stellenbosch University, South Africa |



**Wednesday 8th February,
Lecture Hall L3, Faculty of Medicine and Health Sciences, Stellenbosch
University, Tygerberg Hospital**

09.00-12:00 **Grant writing workshop,**
Professor Stephen Tong, University of Melbourne, Australia

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| Session 1: Plotting a grant 09:00-10:00 | <p>THE AUDIENCE: Thinking about who will be reviewing it</p> <p>THE HOOK: Ways to hook the reviewer</p> <p>THE SCRIPT: Structuring the arc of the grant</p> <p>THE SCIENCE: Ways to make your grant bullet proof</p> |
| TEA | |
| Session 2: Writing the Grant 10:30-12:00 | <p>ON GOOD WRITING: Tips how to write concisely, precisely, clearly. Ways to deliver prose that has impact.</p> <p>THE START: Introducing the grant...the one pager vs a pitchy introduction</p> <p>THE MIDDLE: Structuring the intro and methods to make them easily digested</p> <p>THE END: Ways to end strongly</p> <p>PUTTING IT ALL TOGETHER: Approach to editing a grant.</p> |

13.00 **Hospital tour (Tygerberg Hospital)**
A.Prof Cathy Cluver, A.Prof Lina Bergman, Sr Sonja Schell, Sr Julia Benting, and
Dr Eduard Langenegger
Meet outside Cups and Saucers, Faculty of Medicine and Health Sciences



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14.30-17:30 Epidemiology workshop and patient's perspectives

Chairs: Prof Anna-Karin Wikström and Dr Roxanne Hastie

| | Title | Presenter |
|-------------------------------|---|--|
| EPIDEMIOLOGY | | |
| 14.30-14:40 | Welcome | Prof Anna-Karin Wikström and Dr Roxanne Hastie |
| 14:40-14:50 | Swedish national registers | Prof Anna-Karin Wikström, Uppsala University, Sweden |
| 14:50-15:00 | Aspirin and risk of recurrent preterm birth | Dr Ellen Kupka University of Gothenburg, Sweden |
| 15:00-15:10 | Aspirin and bleeding complications | Dr Roxanne Hastie University of Melbourne, Australia |
| 15:10-15:30 | Discussion | Presenters |
| TEA | | |
| 16:00-16:10 | Outcome after mild neonatal hypoxic ischemic encephalopathy | Prof Maria Jonsson Uppsala University, Sweden |
| 16:10-16:20 | Fetal growth trajectory and adverse perinatal outcome | Dr Linda Lindström Uppsala University, Sweden |
| 16:20-16:30 | Waist circumference as a first-trimester predictor for adverse obstetric outcomes | Dr Katja Junus Uppsala University, Sweden |
| 16:30-16:50 | Discussion | |
| PATIENT'S PERSPECTIVES | | |
| 16:50-17:00 | Partners' experience of preeclampsia | RN Lilja Thorgeirsdottir University of Gothenburg, Sweden |
| 17:00-17:10 | Mothers' view of what is important | A.Prof Cathy Cluver and A.Prof Lina Bergman Stellenbosch University, South Africa |
| 17:10-17:30 | Discussion | Presenters |



**Thursday 9th February,
Blue Ribbon Room, Commodore Hotel, Waterfront**

08.30-12.00 Diagnostics and Prediction workshop

Chairs: Prof Tu'uhevaha Kaitu'u-Lino and A.Prof Lina Bergman

| | Title | Presenter |
|---------------------------|---|---|
| 8:30-8:40 | Welcome | A.Prof Tu'uhevaha Kaitu'u-Lino and and A.Prof Lina Bergman |
| ANGIOGENIC MARKERS | | |
| 08:40-08:40 | Repeat PIGF-based testing in suspected preterm pre-eclampsia | Dr Alice Hurrell Kings College, United Kingdom |
| 08:50-09:00 | Angiogenic markers for prediction of preeclampsia | Dr Sofia Cerdeira University of Oxford, United Kingdom |
| 09:00-09:10 | First trimester screening-implementation and health economics | Prof Jenny Myers University of Manchester, United Kingdom |
| 09:10-09:30 | Panel discussion | |
| 09:30-09:40 | Diagnostic biomarkers in suspected pre-eclampsia | Dr Alice Hurrell Kings College, United Kingdom |
| 09:40-09:50 | Angiogenic biomarkers in preeclampsia with multiorgan failure | Dr Roxanne Hastie University of Melbourne, Australia |
| 09:50-10:00 | Point of care angiogenic markers – how to use them in an LMIC | Prof Andrew Shennan Kings College, United Kingdom |
| 10:00-10:20 | Panel discussion | |
| TEA | | |
| PREDICTION | | |
| 10.50-11.00 | Prediction of end organ complications in preeclampsia | A.Prof Lina Bergman Stellenbosch and Gothenburg Universities |
| 11.00-11.10 | PIERS AI Model for prediction of adverse outcomes in preeclampsia | Prof Peter von Dadelszen Kings College, United Kingdom |
| 11:10-11:20 | Prediction of chronic hypertension after preeclampsia | Nicole Wallin University of Gothenburg, Sweden |
| 11:20-11:40 | Panel discussion | |
| 11:40-11:50 | The prevalence of preeclampsia with gestational age in SGA/FGR and relationship with outcome | Prof Christopher Lees Imperial College, United Kingdom |
| 11:50-12:00 | Impact of FGR on pregnancy outcomes in women undergoing expectant management for preterm preeclampsia | A.Prof Cathy Cluver Stellenbosch University, South Africa |
| 12.00-12.10 | Growth trajectories in preterm preeclampsia | Prof Stephen Tong University of Melbourne, Australia |
| 12:10-12:30 | Panel discussion | Presenters |



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13.30-17.00 **Therapeutics and Intervention workshop**
Chairs: Prof Stephen Tong and A.Prof Cathy Cluver,

| | Title | Speaker |
|-------------------------|----------------------------------|---|
| 13.30-13.40 | Welcome | Prof Stephen Tong and A.Prof Cathy Cluver |
| CLINICAL TRIALS | | |
| 13.40-13.50 | GSNO | Prof Christopher Lees Imperial College, United Kingdom |
| 13.50-14.00 | Short interfering RNA | Dr Allison August Comanche, United States Prof Thomas McElrath Harvard University, United States |
| 14.00-14.20 | Panel Discussion | |
| 14.20-14.30 | Metformin | A.Prof Fiona Brownfoot University of Melbourne |
| 14.30-14.45 | PI 2, PI 3, PI 4 and APPLE PI | A.Prof Cathy Cluver Stellenbosch University, South Africa |
| 14.45-15.00 | Panel Discussion | |
| TEA | | |
| PHARMACOKINETICS | | |
| 15.30-16.00 | Pharmacokinetics in preeclampsia | A.Prof Eric Decloedt Dr Veshni Pillay-Fuentes Lorente Stellenbosch University, South Africa |
| 16.00-16.10 | Panel Discussion | |
| CLINICAL TRIALS | | |
| 16.10-16.30 | GIANT and BABY PANDA | Dr Fran Conti-Ramsden Kings College, United Kingdom |
| 16.30-16.40 | CRADLE 4 | Dr Alice Beardmore-Gray Kings College, United Kingdom |
| 16.40-17.00 | Discussion | |



**Friday 10th February,
Lecture Hall L6, Faculty of Medicine and Health Sciences, Stellenbosch
University, Tygerberg Hospital**

8.00-9.30 **Labour ward tour for plenary speakers**

09:45-17:30 **International plenary sessions**

Chairs: A.Prof Cathy Cluver and A.Prof Lina Bergman

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|--------------|--|--|
| 09:45-10:00 | Welcome | Professor Nico Gey van Pittius, Vice Dean of Research Stellenbosch University, South Africa |
| 10:00-10:20 | Cardiovascular phenotypes of preeclampsia | Professor Christopher Lees, Imperial College, United Kingdom |
| 10:20-10:40 | Preeclampsia research in Swedish national registers | Professor Anna Karin Wikström, Uppsala University, Sweden |
| 10:40-11:00 | Panel discussion | |
| TEA | | |
| 11:30-11:50 | Bench to bedside research to find disease modifying drugs for preeclampsia | Professor Stephen Tong, Melbourne University, Australia |
| 11:50-12:10 | Preeclampsia and kidney disease - a vicious circle? | Professor Kate Bramham, Kings College, United Kingdom |
| 12:10-12:30 | Prediction models in preeclampsia | Professor Peter von Dadelszen, Kings College, United Kingdom |
| 12:30-13:00 | Panel discussion | |
| LUNCH | | |
| 14:00-14:20 | Recent development in angiogenic markers: How to implement into antenatal triage | Professor Andrew Shennan, Kings College, United Kingdom |
| 14:20-14:40 | Trophoblast Extracellular Vesicles - new insights | Professor Manu Vatish, Oxford University, United Kingdom |
| 14.40-15:00 | Antihypertensive treatment in preeclampsia | Professor Laura Magee, Kings College, United Kingdom |
| 15:00-15:20 | Panel Discussion | |
| TEA | | |
| 15:50-16:10 | Interpregnancy and post pregnancy cardiometabolic health: let's get upstream and see where women are falling in? | Professor Jenny Myers, University of Manchester, United Kingdom |
| 16:10-16:30 | Microvascular dysfunction: from preeclampsia to cardiovascular disease | Professor Ralf Dechend, Berlin University, Germany |
| 16:30-16:50 | Cell Free RNA as a Biomarker to Stratify Maternal Risk of Preeclampsia and other Adverse Pregnancy Outcomes | Professor Thomas McElrath, Harvard University, United States |
| 16:50-17:20 | Panel Discussion | |
| 17:20-17:30 | Thank you | |



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