

“New Trends in Cell Death”

Conference location: Glenburn Lodge, Kromdraai, Johannesburg, South Africa

DATE: May 19 – May 22 2023

Organizers:

Marianne J. Cronjé,

Richard A. Lockshin, Zahra Zakeri

Registration open 11:00 AM-6:00 PM May 19

OFFICIAL START OF THE SCIENTIFIC SESSIONS OF THE MEETING

Friday May 19

12-1:30 Lunch

1:30- 4:30 Tour of the Cradle of Mankind

Session 1 introduction and awards:

Chair: Zahra Zakeri, (USA):

5:00-5:15 Zahra Zakeri, (USA): Introduction and welcome:

5:15-5:30 Richard A. Lockshin, (USA): Presenting Award to **Guy Salvesen**

5:30-6:15 Guy Salvesen, (USA): Evolution of the inflammatory caspase locus

Reception (6:30 pm – 7:30)

Dinner 7:30-

Saturday May 20

Session 2: Different models for studying cell death

Chair: J. Marie Hardwick (USA):

- 9:00-9:30** **J. Marie Hardwick, (USA):** Fungal cell death resistance and virulence
- 9:30-10:00** **Cornelius Taabazing, (USA):** Regulation of cytokine processing by inflammatory caspases
- 10:00-10:30** **Zaria Malindi (South Africa):** Recombinant Antibody-Conjugated Silver Nanoparticles for Improved Drug Delivery in Photodynamic Therapy for Metastatic Melanoma

10:30-11:00 **Coffee**

Session 3: Different models for studying cell death

Chair: Sarit Larisch, (Israel):

- 11:00-11:30** **Tuğba Bağcı Önder (Turkiye):** Bridging epigenetics and DNA repair towards effective radiotherapy approaches
- 11:30-12:00** **Andreas Bergmann, (USA):** Non-apoptotic functions of caspases in Drosophila
- 12:00-12:30** **Eli Arama, (Israel):** Caspases promote tissue regeneration by compensatory proliferation

12:30-2:00 **Lunch**

Session 4: Cell Death Disease

Chair: Marianne Cronjé

- 2:00-2:30** **Alexander Chota, (South Africa):** Cell Death Mechanisms Induced by Dicoma anomala Root Extract in Combination with Phthalocyanine Mediated-Photodynamic Therapy in A549 Lung Cancer Cells - In Vitro
- 2:30-3:00** **Iliia Voskoboinik (Australia):** Irradiation-induced cell migration is regulated by caspases executed through EMT and triggered by the cytosolic DNA sensing pathway

3:00-3:30 **Michael Christopher Stark, (South Africa):** *In Vitro* Effects of Papaverine on Cell Migration and Vascular Endothelial Growth Factor in Cancer Cell Lines

3:30-4:00 **Marie Arsenian-Henriksson, (Sweden):** Drugging the undruggable: Metabolism and Differentiation control in neural childhood tumors.

4:00-4:30 **Coffee Break**

Session 5: Cell Death Disease

Chair: Annie Joubert, (South Africa):

4:30-5:00 **Sandra Zinkel, (USA):** Phenome-wide association study uncovers connections between cell death gene expression and human disease traits

5:00-5:30 **Mandeep Kaur, (South Africa):** Modulating chemoresistance of cancer via cellular cholesterol depletion: insights from cellular and xenograft studies

5:30-6:00 **Anine Crous, (South Africa):** Nanotherapy for photodynamic cancer treatment of lung, melanoma and cervical cancers

6:00-7:30 **Poster session and Wine tasting**

7:00 **Dinner**

Sunday May 21

Session 6: cell death, disease and Immunity

Chair: Raymond Birge (USA):

9:00-9:30 **Varsha Gadiyar, (USA):** Novel phosphatidylserine-targeting immunobiologics for the treatment of viral infections and cancer

9:30-10:00 Domagoj Vucic, (USA): Harnessing cell death pathways for therapeutic intervention in inflammatory diseases.

10:00-10:30 Shalin Kothari, (USA): Effects of Proteasome Inhibitors on the Anti-Tumor Activity of BH3-Mimetics in Mantle Cell Lymphoma Pre-Clinical Models

10:30-11:00 Coffee Break

Session 7: cell death, disease and Immunity

Chair, Tuğba Bağcı Önder (Turkiye):

11:00-11:30 Anna-Mart Engelbrecht, (South Africa): The tumour microenvironment and chemotherapy-induced cell death

12:00-12:30 Hermann Steller, (USA): Signaling by apoptotic cells during development and disease

12:30 -2:30 Lunch (and Board Meeting)

Session 8: Cell death; Mitochondria and cellular response

Chair: Samuel Katz, (USA):

2:30-3:00 Jerry Chipuk, (USA): Mitochondrial Contributions To Cancer: Causes and Consequences

3:00-3:30 Dhyana Chandra, (USA): Mitochondrial Unfolded Protein Response in Prostate Cancer

3:30-4:00 Sarit Larisch, (Israel): Upregulation of p53 levels by ARTS and PROTAC-like small molecule ARTS-mimetics induce apoptosis in cancer cells

4:00-4:30 Coffee Break

Session 9: Cell death; Mitochondria and cellular response

Chair: Jerry Chipuk, (USA):

4:30-5:00 Shazib Pervaiz, (Singapore): Redox mediated phosphorylation-dependent stability of mcl-1 promotes venetoclax resistance in hematological malignancies

5:00-5:30 Dmitri Krysko, (Belgium): Regulation of autophagy during stress and disease

5:30-6:00 Marie-Veronique Clément (Singapore): A novel senescence-associated redox state promotes the acquisition of key phenotypic features of cellular senescence

6:00- Zahra Zakeri: (USA) Closing remarks

7:00 Gala Dinner