

“Cell Death and Diseases”

Conference location: *Protea Hotel, Stellenbosch Wineland district, Cape Province, South Africa*

DATE: May 8- May 10, 2014

Organizers:

A.M. Engelbrecht, M.J. Cronjé, R.A. Lockshin, Z. Zakeri

Registration opens at 9 AM-6PM

WORKSHOP ON ULTRASTRUCTURE AND TECHNIQUES

This workshop is free of charge to all students

Thursday May 8th

1:00- Open the workshop: Zahra Zakeri (USA)

Chair: **Anna - Mart Engelbrecht (South Africa)**

1:10-1:30 Opening Lecture: Vice Rector Research and Innovation: Prof. Eugene Cloete, Stellenbosch University. (*South Africa*)

1:30-2:00	Richard Lockshin (USA)	Introduction to cell death
2:00-2:30	Katharina D’Herde (Belgium)	The ultrastructure of dying cells
2:30-3:00	Benjamin Loos (South Africa)	Use of Imaging in studying cell
	death	

3:00-3:30	Celia Snyman (South Africa)	Analysis of cell migration
		patterns using time-lapse microscopy.

3:30-5:30 WORKSHOP ON BUILDING A CAREER IN SCIENCE:

Panel members and topics for discussion (**How to be relevant and visible in your research, How to publish in high impact journals**)

Chair: **Marianne J. Cronjé (South Africa); and Anna - Mart Engelbrecht (South**

Africa)

Panelists:

Vishva Dixit (USA);Richard Lockshin;Guido Kroemer (France);Mauro Piacentini (Italy); Eileen White (USA);Annie Joubert (South Africa);Francesco Cecconi (Italy);Marie-Lise Gougeon (France);Beth Levine, (USA);Devrim Gozuacik (Turkey); Boris Zhivotovsky (Sweden); Bagci Onder (Turkey)

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OFFICIAL START OF THE SCIENTIFIC SESSIONS OF THE MEETING

Thursday May 8th

Welcome Introduction and awards:

Chair: **Zahra Zakeri, (USA)**

6: 00-6:15 Zahra Zakeri (U.S.A): Introduction and welcome:

6:15-6:30 Richard A. Lockshin (U.S.A): Presenting Award to Vishva Dixit

6:30-7:30 Vishva Dixit (USA): Signaling lessons from death receptors

7:30- Social hour and Dinner

Friday May 9 th

Mechanisms of Cell Death I:

Chair: **Marianne J. Cronjé (South Africa)**

9:00-9:45 Peter Vandenabeele Molecular mechanisms of necrotic cell death.

(Belgium)

9:45-10:00 *Bali Sishi (South Africa)* Autophagy upregulation promotes survival and attenuates doxorubicin-induced cardiotoxicity

10:00-10:30 Jennie Lill (USA) Development & application of proteomic tools for interrogating Mechanisms of Cell Death

10:30-11:00 Coffee

11:00-11:30 0	Wayne Fairbrother (USA)	Targeting Bcl-2-family proteins
11:30-12:00 0	Raymond Birge (USA) efferocytosis receptors	Recognition of phosphatidylserine by
12:00-12:30 0	Marie Hardwick (USA)	Cell death screen in yeast uncovers

probable mechanisms of new human disease genes

12:30-1:30 Lunch

Mechanisms of Cell Death (Autophagy):

Chair: **Devrim Gozuacik (Turkey)**

1:30-2:15 Beth Levine, (USA) Autophagy, cell death and stroke

2:15-2:30 Ben Loos (South Africa) Autophagic flux and cell death susceptibility

2:30-3:00 Francesco Cecconi (Italy) Ambra1 in autophagy signalling and mitochondrial dismissal

3:00 -3:30 Coffee Break

[3:30-4:00 Sharon Prince \(South Africa\)](#) A novel role for the anti-senescence factor TBX2 in DNA repair and cisplatin resistance.

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4:00- 4:30 Gian Maria Fimia (Italy) Temporal regulation of autophagy response by the Ambra1-Cullin E3 ubiquitin ligases interaction

4:30-5:00 Eli Arama (Israel) Paternal mitochondrial destruction after fertilization is mediated by a common endocytic and autophagic pathway in *Drosophila*

5:00-7:00 Coffee Break Poster Viewing

7:00 Dinner

Saturday May 10th

Cell Death and Cancer Therapy I:

Chair: **Christoph Borner (Switzerland)**

9:00-9:45	Eileen White (USA) Ras-driven cancers.	Exploiting the metabolic vulnerabilities of
9:45-10:00	Dhyan Chandra (USA) in cancer therapy	Apoptosome dysfunction and its impact

10:00-10:30 Lester Davids (South Africa) Photodynamic therapy and skin cancer: A ray of light at the end of a dark tunnel?

10:30-10:45 Jade Peres (*South Africa*) The breast cancer oncoprotein, tbx3, confers drug resistance by directly repressing puma

10:45-11:00 Jan Kovar (Czech Republic) The role of caspases downstream of caspase-2 in cell death induction by taxanes in cancer cells.

11:00-11:30 Coffee Break

Chair: **Bali Sishi (South Africa)**

11:30-12:00	Boris Zhivotovsky (Sweden)	Mitochondria as a target for
12:00-12:30	cancer therapy. Jean Luc Perfettini (France)	Cellular cannibalism and cancer

12:30-12:45 Shazib Pervaiz Selective targeting of KRAS mutant cancer cells

1:00-2:30 Lunch

Cancer and therapy:

Chair: **Bali Sishi (South Africa)**

2:30-3:00 Simone Fulda (Germany) Novel opportunities to target IAP proteins for cancer therapy

3:00-3:30 Annie Joubert (South Africa) In vitro and ex vivo evaluation of newly designed 17-beta estradiol analogues as potential anticancer agents

3:30-4:00 Tugba Bagci Onder (Turkey) Epigenetic regulation of apoptotic resistance in brain cancers

4:00-4:30 Coffee Break

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Inflammation Cell death and therapy:

Chair: **Chair: Mauro Piacentini (Italy)**

4:30-5:15 Guido Kroemer (France) Cell death in pathophysiology: inexorable, avoidable and desirable

5:15-5:30 Christoph Borner (Germany) Cell death mechanisms induced by viruses

5:30-6:00 Marie-Lise Gougeon (France) The tug of war between dendritic cells and HIV

6:00-6:30 Domagoj Vucic (USA) Posttranslational regulation of cell death pathways in tumors and inflammation

6:30-6:45 Wynand Roos (Germany) The tumor suppressor p53 couples the DNA damage response to DNA interstrand crosslink repair, thereby causing resistance of malignant melanoma cells to cross-linking agent induced apoptosis.

6:45-7:00 Closing Comments

8:00 Gala Dinner

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