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Medical Science

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South Africa

Duran Ramsuran has recently been awarded a PhD by UKZN for a thesis that looked at the spectrum of HIV related Nephropathy in KwaZulu-Natal: A Pathogenic Appraisal and Impact of HAART under the principal mentorship of Professor Naicker. Duran has already published 4 novel research papers and has another in the late stage of submission. He has also presented his work at several international and local conferences. In addition, he has won scholarships throughout his academic career. Duran's current post-doctoral research under the mentorship of Dr. Leslie involves establishing a organotypic model of lung and gut mucosa that will allow him to study the infections of both HIV and TB with the immune system at these crucial sites of infection.

## CURRENT RESEARCH

Topic	Methodology	Application
Development and implementation of a three-dimensional organotypic model of the human gut and lung mucosa for use in the study of TB and HIV interaction	<ul style="list-style-type: none"><li>• Cell culturing</li><li>• Confocal microscopy</li><li>• Immunohistochemistry</li><li>• Transmission electron microscopy</li><li>• Proteomics</li><li>• Real Time PCR</li></ul>	Studying the interaction of TB and HIV with these (gut and lung) important immune sites

## UKZN main Publications

1. **Ramsuran D**, Bhimma R, Ramdial PK, Naicker E, Adhikari M, Deonarain J, Sing Y and Naicker T (2011). The Spectrum of HIV related nephropathy in children. Ped Neph. Manuscript ID pedneph-11-07-0408.
2. **Ramsuran D**, Naicker T, Dauth T and Moodley J (2012). The role of podocytes in the early detection of pre-eclampsia. Pregnancy Hypertension- An International Journal of Women's Cardiovascular Health. 2:(43-47).
3. Naicker T, **Ramsuran D**, Dauth T and Moodley J (2011). Podocyturia in the early detection of preeclampsia- a pilot study. Placenta. 32:9(A89). ISSN 0143-4004
4. Naicker T, Dorsamy E, **Ramsuran D**, Burton GJ and Moodley J (2011). The role of apoptosis versus proliferation on trophoblast cell invasion in the placental bed of normotensive and hypertensive pregnancies. Submitted to Hypertension in Pregnancy. Manuscript ID LHIP-2011-005

## Past Researches

My past research project was entitled: "The spectrum of HIV related nephropathy in KwaZulu-Natal: A pathogenetic appraisal and impact of HAART." The early detection and treatment of HIV related nephropathy is required in order to prevent or delay progression to end stage renal disease. This study determined the impact of highly active anti-retroviral therapy (HAART) in patients with HIV and nephropathy in KwaZulu-Natal.

## Future Interests

Research in interdisciplinary projects and academia

## Extra Interests

Travel and sports