

SA COCHRANE CENTRE



Co-Directors: Prof Jimmy Volmink and



Dr Nandi Siegfried

Mandate:

The mission of the South African Cochrane Centre (SACC) is to prepare and maintain systematic reviews of the effects of health care interventions, and to promote access to and the use of evidence from systematic reviews in healthcare decision making throughout sub-Saharan Africa. The objectives of the SACC are:

- to increase the number of high quality, up-to-date Cochrane reviews relevant to the African region;
- to promote access to Cochrane reviews and derivative products in countries for which the SACC is the reference Cochrane Centre;
- to promote evidence-based practice and policy in the African region;
- to promote the science of research synthesis; and
- to promote the optimal functioning and sustainable growth of The Cochrane Collaboration.

In addition to the above objectives, the SACC also serves as a distributing agent of *The Cochrane Library*.

Peer-reviewed journal articles

1. Siegfried N, Clarke M, Volmink J, Van der Merwe L. African HIV/AIDS trials are more likely to report adequate allocation concealment and random generation than North American trials. *PLoS ONE* 2008; 3(10): e3491.
2. Abba K, Sudarsanam TD, Grobler L, Volmink J. Nutritional supplements for people being treated for active tuberculosis. *Cochrane Database Syst Rev* 2008; 4: CD006086. DOI: 10.1002/14651858.CD006086.pub2
3. Walley J, Lawn JE, Tinker A, de Francisco A, Chopra M, Rudan I, Bhutta ZA, Black RE; Lancet Alma-Ata Working Group including Wiysonge CS. Primary health care: making Alma-Ata a reality. *Lancet* 2008; 372: 1001-1007.
4. Lewin S, Lavis JN, Oxman AD, Bastias G, Chopra M, Ciapponi A, Flottorp S, Marti SG, Pantoja T, Rada G, Souza N, Treweek S, Wiysonge CS, Haines A. Supporting the delivery of cost-effective interventions in primary health-care systems in low-income and middle-income countries: an overview of systematic reviews. *Lancet* 2008; 372: 928-939 [Review].
5. Kongnyuy EJ, Wiysonge CS. Association between fertility and HIV status: what implications for HIV estimates? *BMC Publ Health* 2008; 8: 309.
6. Tibazarwa KB, Volmink JA, Mayosi BM. The incidence of acute rheumatic fever in the world: a systematic review of population-based studies. *Heart* 2008; 94(12): 1534-1540.
7. Wiysonge CS, Nomo E, Mawo J, Ofal J, Mimbouga J, Ticha J, Ndumbe PM. Yellow fever control in Cameroon: where are we now and where are we going? *BMC Med* 2008; 6: 3.
8. Ntsekhe M, Wiysonge CS, Gumedze F, Maartens G, Commerford PJ, Volmink JA, Mayosi BM. HIV infection is associated with a lower incidence of constriction in presumed tuberculous pericarditis: a prospective observational study. *PLoS ONE* 2008; 3(6): e2253.
9. Atkins S, Lewin S, Smith H, Engel M, Fretheim A, Volmink J. Conducting a meta-ethnography of qualitative literature: Lessons learnt. *BMC Med Res Methodol* 2008; 8: 21.
10. Cleary M, Hunt G, Matheson S, Siegfried N, Walter G. Psychosocial interventions for people with both severe mental illness and substance misuse. *Cochrane Database Syst Rev* 2008; (1): CD001088 [Review].
11. Cleary M, Hunt GE, Matheson S, Siegfried N, Walter G. Psychosocial treatment programs for people with both severe mental illness and substance misuse. *Schizophr Bull* 2008; 34(2): 226-228.
12. Mayosi BM, Wiysonge CS, Ntsekhe M, Gumedze F, Volmink JA, Maartens G, Aje A, Thomas BM, Thomas KM, Awotodu AA, Thembela B, Mntla P, Maritz F, Blackett KN, Nkouonlack DC, Burch VC, Rebe K, Parrish A, Sliwa K, Zezi BZ, Alam N, Brown BG, Gould T, Visser T, Magula NP, Commerford PJ. Mortality in patients treated for tuberculous pericarditis in sub-Saharan Africa. *S Afr Med J* 2008; 98(1): 36-40.
13. Fankem SL, Wiysonge CS, Hankins CA. Male circumcision and the risk of HIV infection in men who have sex with men. *Int J Epidemiol* 2008; 37(2): 353-355.



14. Kongnyuy EJ, van den Broek N, Wiysonge CS. A systematic review of randomized controlled trials to reduce hemorrhage during myomectomy for uterine fibroids. *Int J Gynaecol Obstet* 2008; 100(1): 4-9 [Review].
15. Kongnyuy EJ, Nana PN, Fomulu N, Wiysonge CS, Kouam L, Doh AS. Adverse perinatal outcomes of adolescent pregnancies in Cameroon. *Matern Child Health J* 2008; 12(2): 149-154.
16. Wiysonge CS, Ntsekhe M, Gumede F, Sliwa K, Blackett KN, Commerford PJ, Volmink JA, Mayosi BM. Contemporary use of adjunctive corticosteroids in tuberculous pericarditis. *Int J Cardiol* 2008; 124(3): 388-390.
17. Wiysonge CS, Araoyinbo ID. Task shifting in the public health sector - what is the evidence? *S Afr Med J* 2008; 98(8): 570, 572 [Letter].
18. Siegfried N, Pienaar D. Health professionals don't feel secure in their own country. *Lancet* 2008; 371: 1576 [Letter].
19. Young T, Oliphant CEM, Araoyinbo I, Volmink J. Cotrimoxazole prophylaxis in HIV: The evidence. *S Afr Med J* 2008; 98(4): 258-259 [Review].
20. Grobler L, Siegfried N, Askie L, Hooff L, Tharyan P, Antes G. National and multinational prospective trial registers. *Lancet* 2008; 372: 1202.
21. Volmink J. The willow as a Hottentot (Khoikhoi) remedy for rheumatic fever. *J R Soc Med* 2008; 101(6): 321-323.
22. Young T, Ejemot R, Ehiri J, Meremikwu M, Critchley J, Luby SP, Curtis V. Cochrane Column: Hand washing for preventing diarrhoea. *Int J Epidemiol* 2008; 37(3): 470-473. doi:10.1093/ije/dyn069
23. Mills EJ, Schabas WA, Volmink J, Walker R, Ford N, Katabira E, Anema A, Joffres M, Cahn P, Montaner J. Should active recruitment of health workers from sub-Saharan Africa be viewed as a crime? *Lancet* 2008; 371: 685-688.
24. Busgeeth K, Siegfried N. Development and implementation of an HIV/AIDS trials management system: a geographical information systems approach. *Southern Afr J HIV Med* 2008; 9(2): 58-62.

Book

1. Academy of Science of South Africa, including Volmink J and Grobler L. *HIV/AIDS, TB and Nutrition: Scientific inquiry into the nutritional influences on human immunity with special reference to HIV infections and active TB in South Africa*. Pretoria: Academy of Science of South Africa, 2008. ISBN: 978-0-620-39209-9.

Book chapter

1. Cleary M, Walter G, Matheson S, Siegfried N. Randomised controlled trials of psychosocial interventions in a mental health setting: how can the gold standard be achieved? In: Callara LR, Ed. *Nursing Challenges in the 21st century*. Nova Science Publishers, 2008: 7-10. ISBN 1600216617.

Protocols for Cochrane Reviews

1. Wiysonge CSU, Kongnyuy EJ, Navti OB, Muula AS. Male circumcision for prevention of homosexual acquisition of HIV in men (Protocol). *Cochrane Database of Systematic Reviews* 2008; Issue 4. Art. No.: CD007496. DOI: 10.1002/14651858.CD007496.
2. Sinclair D, Zani B, Bukirwa H, Donegan S, Olliaro P, Garner P. Artemisinin-based combination therapy for treating uncomplicated malaria. *Cochrane Database of Systematic Reviews* 2008; Issue 4. Art. No.: CD007483. DOI:10.1002/14651858.CD007483.
3. Bame R, Wiysonge CSU, Kongnyuy EJ. Female condom for preventing HIV and sexually transmitted infections (Protocol). *Cochrane Database of Systematic Reviews* 2008; Issue 3. Art. No.: CD003652. DOI: 10.1002/14651858.CD003652.pub2.
4. Kredt T, Van der Walt JS, Siegfried N, Cohen K, Sinxadi P. Therapeutic drug monitoring of antiretrovirals for people with HIV (Protocol). *Cochrane Database of Systematic Reviews* 2008; Issue 3. Art. No.: CD007268. DOI: 10.1002/14651858.CD007268.

HEALTH POLICY RESEARCH UNIT



Director: Prof Laetitia Rispel

Mandate:

As an independent, multi-disciplinary research organisation, the Centre for Health Policy (CHP) seeks to contribute to excellence in health policy and health economics research, and to be a critical participant in health policy processes. Its primary objectives are:

- to conduct research that advocates for and promotes policies in support of equity and social justice in health;
- to support and engage with a variety of stakeholders in order to promote appropriate health policy analyses;
- to provide learning opportunities which build and strengthen capacity in health policy/health economics research and analysis; and
- to advance the field of health policy by developing meaningful national and international partners.

Peer-reviewed journal articles

1. Erasmus E, Gilson L. How to start thinking about investigating power in the organizational settings of policy implementation. *Health Policy Plan* 2008; 23(5): 361-368.
2. Gilson L, McIntyre D. The interface between research and policy: experience from South Africa. *Soc Sci Med* 2008; 67(5): 748-759.
3. Gilson L, Raphaely N. The terrain of health policy analysis in low and middle income countries: a review of published literature 1994-2007. *Health Policy Plan* 2008; 23(5): 294-307.
4. Gilson L, Buse K, Murray SF, Dickinson C. Future directions for health policy analysis: a tribute to the work of Professor Gill Walt. *Health Policy Plan* 2008; 23(5): 291-293.
5. Jacobs N, Schneider H, Van Rensburg HCJ. Rationing access to public-sector antiretroviral treatment during scale-up in South Africa: implications for equity. *AJAR* 2008; 7(1): 19-27.
6. Janse van Rensburg-Bonthuyzen E, Engelbrecht M, Steyn F, Jacobs N, Schneider H, van Rensburg D. 2008. Resources and infrastructure for the delivery of

antiretroviral therapy at primary health care facilities in the Free State Province.

SAHARA J 2008; 5(3): 106-112.

7. McCarthy KM, Cohen C, Schneider H, Gould SM, Brandt ME, Hajjeh RA; Gauteng Cryptococcal Surveillance Initiative Group. Cryptococcosis in Gauteng: implications for monitoring of HIV treatment programmes. *S Afr Med J* 2008; 98(6): 452, 454.
8. McIntyre D, Garshong B, Mtei G, Meheus F, Thiede M, Akazili J, Ally M, Aikins M, Mulligan JA, Goudge J. Beyond fragmentation and towards universal coverage: insights from Ghana, South Africa and the United Republic of Tanzania. *Bull WHO* 2008; 86(11): 871-876.
9. Pick W, Rispel L, Naidoo S. Poverty, health and policy: a historical look at the South African experience. *J Publ Health Policy* 2008; 29(2): 165-178.
10. Schneider H, Hlophe H, van Rensburg D. Community health workers and the response to HIV/AIDS in South Africa: tensions and prospects. *Health Policy Plan* 2008; 23(3): 179-187.
11. Walt G, Shiffman J, Schneider H, Murray SF, Brugha R, Gilson L. 'Doing' health policy analysis: methodological and conceptual reflections and challenges. *Health Policy Plan* 2008; 23(5): 308-317.
12. Willis-Shattuck M, Bidwell P, Thomas S, Wyness L, Blaauw D, Ditlopo P. Motivation and retention of health workers in developing countries: a systematic review. *BMC Health Serv Res* 2008; 8: 247.
13. van Rensburg DH, Steyn F, Schneider H, Loffstadt L. Human resource development and antiretroviral treatment in Free State province, South Africa. *Hum Resourc Health* 2008; 6: 15.

Book

1. Bennett S, Gilson L, Mills A, Eds. *Health, economic development and household poverty: from understanding to action*. London: Routledge, 2008. ISBN: 041534428X

Book chapters

1. Bennett S, Gilson L. Chapter 9: Protecting the poor from the cost of services through health financing reform. In: Bennett S, Gilson L, Mills A, Eds. *Health, economic development and household poverty: from understanding to action*. London: Routledge; 2008: 155-173.
2. Bennett S, Gilson L, Mills A. 2008. Chapter 13: Conclusions: from evidence to action. In: Bennett S, Gilson L, Mills A, Eds. *Health, economic development and household poverty: from understanding to action*. London: Routledge, 2008: 225-234.
3. Mills A, Bennett S, Gilson L. 2008. Chapter 1: Health,



economic development and household poverty: the role of the health sector. In: Bennett S, Gilson L, Mills A, Eds. *Health, economic development and household poverty: from understanding to action*. London: Routledge, 2008: 1-18.

HEALTH SYSTEMS RESEARCH UNIT



Director: Prof Mickey Chopra

Mandate:

To provide leadership in the field of effectiveness of health care services and systems in South Africa by undertaking interdisciplinary scientific research to identify effective interventions and policies; by developing research methods; and by promoting the adoption of effective interventions.

Objectives are:

- to develop and evaluate interventions which promote evidence based health care provision;
- to further develop the research methodologies; and
- to promote the development of research capacity.

Peer-reviewed journal articles

1. Palen LA, Graham JW, Smith EA, Caldwell LL, Mathews C, Flisher AJ. Rates of missing responses in personal digital assistant (PDA) versus paper assessments. *Eval Rev* 2008; 32(3): 257-272.
2. Eisele TP, Mathews C, Chopra M, Brown L, Silvestre E, Daries V, Kendall C. High levels of risk behavior among people living with HIV Initiating and waiting to start antiretroviral therapy in Cape Town, South Africa. *AIDS Behav* 2008; 12(4): 570-577.
3. Johnson L, O'Bra H, Chopra M, Mathews C, Townsend L, Sabin K, Tomlinson M. The associations of voluntary counseling and testing acceptance and the perceived likelihood of being HIV-infected among men with multiple sex partners in a South African township. *AIDS Behav* 2008; Feb 13 [Epub ahead of print].
4. Pluddemann A, Flisher AJ, Mathews C, Carney T, Lombard C. Adolescent methamphetamine use and sexual risk behaviour in secondary school students in Cape Town, South Africa. *Drug Alcohol Rev* 2008; 27(6): 687-692.
5. Johnston L, O'Bra H, Chopra M, Mathews C, Townsend L, Sabin K, Tomlinson M, Kendall C. The Associations of Voluntary Counseling and Testing Acceptance and the Perceived Likelihood of Being HIV-Infected Among Men with Multiple Sex Partners in a South African Township. *AIDS Behav* 2008; Feb 13 [Epub ahead of print].
6. Tomlinson M. Major depressive disorder is common

in the elderly population of Yoruba-speaking regions of Nigeria.

Evid Based Ment Health 2008; 11(2): 58 [Commentary].

7. Rudan I, Gibson JL, Ameratunga S, El Arifeen S, Bhutta ZA, Black M, Black RE, Brown KH, Campbell H, Carneiro I, Chan KY, Chandramohan D, Chopra M, Cousens S, Darmstadt GL, Meeks Gardner J, Hess SY, Hyder AA, Kapiriri L, Kosek M, Lanata CF, Lansang MA, Lawn J, Tomlinson M, Tsai AC, Webster J; Child Health and Nutrition Research Initiative. Setting priorities in global child health research investments: guidelines for implementation of CHNRI method. *Croat Med J* 2008; 49(6): 720-733.
8. Daniels K, Lewin S; The Practice Policy Group. Translating research into maternal health care policy: a qualitative case study of the use of evidence in policies for the treatment of eclampsia and pre-eclampsia in South Africa. *Health Res Policy Syst* 2008; 6(1): 12.
9. Stein J, Lewin S, Fairall L, Mayers P, English R, Bheekie A, Bateman E, Zwarenstein M. Building capacity for antiretroviral delivery in South Africa: a qualitative evaluation of the PALS PLUS nurse training programme. *BMC Health Serv Res* 2008; 8: 240.
10. Atkins S, Lewin S, Smith H, Engel M, Fretheim A, Volmink J. Conducting a meta-ethnography of qualitative literature: lessons learnt. *BMC Med Res Methodol* 2008; 8: 21.

Book

1. Bastien S, Flisher AJ, Mathews C, Klepp K-I. Peer education for adolescent reproductive health: an effective method for program delivery, a powerful empowerment strategy, or neither? In: Klepp K-I, Flisher AJ, Kaaya S, Eds. *Promoting adolescent sexual and reproductive health in East and Southern Africa*. Uppsala: Nordiska Afrikainstitutet, 2008. HSRC PRESS, Cape Town.

RURAL PUBLIC HEALTH AND HEALTH TRANSITION RESEARCH UNIT



Director: Prof Steve Tollman

Mandate:

The unit strives 'to better understand the dynamics of health, population and social transitions in rural South (and southern) Africa in order to mount a more effective public health, public sector and social response'. The research framework of the Unit covers three closely linked spheres of work: measuring and monitoring, investigating, and responding to health, population and social transitions in rural South (and southern) Africa.

Peer-reviewed journal articles

1. Polzer T. Invisible integration: How bureaucratic academic and social categories obscure integrated refugees. *J Refug Stud* 2008; 21(4): 476-497.
2. Hunter LM, De Souza R-M, Twine W. The environmental dimensions of the HIV/AIDS pandemic: a call for scholarship and evidence-based intervention. *Pop Environ* 2008; 29(3-5): 103-107.
3. de Sherbinin A, Vanwey L, McSweeney K, Aggarwal R, Barbieri A, Henry S, Hunter LM, Twine W. Rural household demographics, livelihoods and the environment. *Global Environ Change* 2008; 18(1): 38-53.
4. Cassels S, Clark SJ, Morris M. Mathematical models for HIV transmission dynamics: tools for social and behavioral science research. *J Acquir Immune Defic Syndr* 2008; 47, Suppl 1: S34-39.
5. Tollman SM, Kahn K, Sartorius B, Collinson MA, Clark SJ, Garenne ML. Implications of mortality transition for primary health care in rural South Africa: a population-based surveillance study. *Lancet* 2008; 372(9642): 893-901.
6. Zwang J, Garenne M. Social context of premarital fertility in rural South Africa. *Afr J Repr Health* 2008; 12(2): 98-110.
7. Garenne M, Zwang J. Premarital fertility and HIV/AIDS in sub-Saharan Africa. *Afr J Repr Health* 2008; 12(2): 64-74.
8. Garenne M, McCaa R, Nacro K. Maternal mortality



in South Africa in 2001: from demographic census to epidemiological investigation.

Popul Health Metr 2008; 6: 4.

9. Madhavan S, Townsend N, Garey A. 'Absent Breadwinners': Father-Child connections and paternal support in Rural South Africa. *J S Afr Stud* 2008; 34(3): 647-663.
10. Cappuccio FP, Kerry SM, Adeyemo A, Luke A, Amoah AG, Bovet P, Connor MD, Forrester T, Gervasoni JP, Kaki GK, Plange-Rhule J, Thorogood M, Cooper RS. Body size and blood pressure: an analysis of Africans and the African diaspora. *Epidemiology* 2008; 19(1): 38-46.
11. Cortina MA, Kahn K, Fazel M, Hlungwani T, Tollman S, Bhana A, Prothrow-Stiith D, Stein A. School-based interventions can play a critical role in enhancing children's development and health in the developing world. *Child Care Health Dev* 2008; 34(1): 1-3.
3. Sachaetti C. Cultural epidemiology and self management of type 2 diabetes in rural South Africa: A pilot study. University of the Witwatersrand, South Africa, 2008 (Masters).
4. Bakajika D. Childhood mortality and socio-economic status in Agincourt site in 2003, South Africa. University of the Witwatersrand, South Africa, 2008 (Masters).
5. Crowther P. The association between household food security and mortality in children under five years of age in Agincourt, Limpopo Province, in 2004. University of the Witwatersrand, South Africa, 2008 (Masters).

Book chapters

1. White MJ, Mberu BU, Collinson MA. Chapter 18: African Urbanisation: Recent Trends and Implications. In: Martine G, McGranahan G, Montgomery M, Fernandez-Castilla R, Eds. *The New Global Frontier: Urbanisation, Poverty and Environment in the 21st Century*. London: Earthscan, 2008: 301-316. ISBN 978-1-84407-559-1
2. Kautzky K, Tollman SM. A Perspective on Primary Health Care in South Africa. In: Barron P, Roma-Reardon J, Eds. *South African Health Review 2008*. Durban: Health Systems Trust, 2008.

Technical reports

1. Garenne M. *DHS Comparative Reports No. 18: Fertility changes in sub-Saharan Africa*. Maryland: Claverton, 2008.
2. Twine W, Hunter L. *AIDS Mortality and the Role of Natural Resources in Household Food Security in a Rural District of South Africa: HIV, Livelihoods, Food and Nutrition Security: Findings from Renewal Research (2007 – 2008)*. Washington: International Food Policy Research Unit, 2008.

Dissertations and theses

1. Tollman SM. Closing the gap: Applying health and socio-demographic surveillance to complex health transitions in South and sub-Saharan Africa. Umea University Medical Dissertation (PhD), 2008. ISBN 978-91-7264-681-0
2. Marathe P. Assessment of consistency between self reported health status and performance based health status (functionality) as measures of health status

HEALTH PROMOTION

ALCOHOL & DRUG ABUSE RESEARCH UNIT



Director: Prof Charles Parry

Mandate:

The overall mandate of the unit is to generate knowledge and propose policy and other interventions that will lead to a reduction in alcohol and other drug (AOD) abuse and the burden of AOD abuse experienced by individuals and society at large. Key objectives include the following:

- measuring the prevalence of alcohol and other drug (AOD) use and associated consequences, and trends in AOD use/consequences over time;
- identifying current and future risk and protective factors for substance abuse (especially in high risk groups);
- designing and evaluating appropriate preventive and other interventions;
- facilitating the implementation of research findings by supporting advocacy efforts and providing information that will allow policy makers, service providers and community representatives to make informed decisions; and
- undertaking research that will lead to the improvement of methods for assessing the prevalence of AOD use and associated consequences, and evaluating the effectiveness of interventions.

Peer-reviewed journal articles

1. Koopman FA, Parry CDH, Myers BJ, Reagon G. Addressing alcohol problems in primary care settings: A study of general medical practitioners (GPs) in Cape Town, South Africa. *Scand J Publ Health* 2008; 36(3): 298-302.
2. Myers B, Louw J, Fakier N. Alcohol and drug abuse: Removing structural barriers to treatment for historically disadvantaged communities in Cape Town. *Int J Soc Welfare* 2008; 17(2): 156-165.
3. Needle R, Kroeger K, Belani H, Achrekar A, Parry CDH, Dewing S. Sex, drugs and HIV risk: Findings from a rapid assessment among male and female drug-using street-based sex workers in Durban, South Africa. *Soc Sci Med* 2008; 67(9): 1447-1455.

4. Parry CDH, Petersen P, Carney T, Dewing S, Needle R. Rapid assessment of drug use and sexual HIV risk patterns among vulnerable drug using populations in Cape Town, Durban and Pretoria, South Africa. *SAHARA J* 2008; 5(3): 113-119.
5. Parry CDH, Petersen P, Dewing S, Carney T, Needle R, Kroeger K, Treger L. Rapid assessment of drug related HIV risk among men who have sex with men in three South African cities. *Drug Alcohol Depend* 2008; 95(1-2): 45-53.
6. Parry CDH, Dewing S, Petersen P, Carney T, Needle R. Rapid assessment of HIV risk in drug using sex workers three cities in South Africa. *AIDS Behav* 2008 Mar 7 [Epub ahead of print].
7. Plüddemann A, Flisher AJ, Mathews C, Carney T, Lombard C. Adolescent Methamphetamine use and sexual risk behaviour in secondary school students in Cape Town, South Africa. *Drug Alcohol Rev* 2008; 27(6): 687-692.
8. Plüddemann A, Myers B, Parry CDH. Surge in methamphetamine use in young people in Cape Town, South Africa: implications for public health. *Drug Alcohol Rev* 2008; 27(2): 185-189.
9. Plüddemann A, Parry CDH, Flisher AJ, Jordaan E. Heroin users in Cape Town, South Africa: Examining injecting practices, health consequences and HIV-related risk behavior. *J Psychoactive Drugs* 2008; 40(3): 273-279.
10. Wechsberg WM, Luseno WK, Karg R, Young S, Rodman N, Myers B, Parry CDH. Alcohol, cannabis, and methamphetamine use and other risk behaviours among black and coloured South African women: a small randomised trial in the Western Cape. *Int J Drug Policy* 2008; 19(2):130-139.
11. Wechsberg WM, Luseno WK, Riehmman KS, Karg R, Parry CDH. Substance use and sexual risk within the context of gender inequality. *Subst Use Misuse* 2008; 43(8-9): 1186-1201.
12. Parry CDH, Morojele NK, Jernigan D. Action for a Sober South Africa. *Addiction* 2008; 103(12): 207 [News & Notes].

Book chapters

1. Babor TF, Stenius K, Savva S, O' Reilly J, Morojele NK. *Publishing Addiction Science. A guide for the perplexed* (2nd ed). London: International Society of Addiction Journal Editors, 2008.
2. Parry CDH, Morojele NK, Jernigan D. Creating a Sober South Africa. In: Pennington, S., Ed. *Action for a Sober South Africa*. Paarl: SA Good News, 2008: 68-75.
3. Flisher AJ, Dawes A, Kafaar Z, Lund C, Sorsdahl K, Myers B, Thom R, Seedat S. Child and Adolescent mental health in South Africa. In: Akyeampong A, Hill,



Kleinman A, Eds. *Psychiatry in Africa*. Indiana University Press, 2008.

Technical reports

1. Plüddemann A, Dada S, Parry CDH, Cerff P, Bhana A, Pereira T, Carelsen A, Kitteli N, Gerber W, Rosslee C, Fourie D. *Monitoring Alcohol and Drug Abuse Trends in South Africa (July 1996-December 2007)*. SACENDU Research Brief, 2008; 1(2), 1-12.
2. Carney T, Parry CDH. *Harm Reduction in Southern Africa: Strategies used to address drug-related HIV (and Hepatitis C)*. Cape Town: MRC, 2008.
3. Fakier N, Myers B. *Audit of substance abuse treatment facilities in Free State, Limpopo, Mpumalanga, North West and Northern Cape (2007-2008)*. Parow: MRC, 2008.
4. Harker N, Myers B, Fakier N. *Monitoring alcohol and drug related intakes at Department of Social Development District Offices in the Western Cape*. Parow: MRC, 2008.
5. Harker N, Kader R, Myers B, Fakier N, Parry CDH, Flisher A, Peltzer K, Ramlagan S, Davids A. *Substance abuse in the Western Cape: A review of Studies conducted since 2000*. Parow: MRC, 2008.
6. Myers B, Harker N, Fakier N, Kader R, Mazok C. *A review of evidence-based interventions for the prevention and treatment of substance use disorders*. Parow: MRC, 2008.
7. Parry, CDH, Carney, T, Petersen, P, Plüddemann A. *End of Year Report to CDC: Drug use and sexual HIV risk patterns among non-injecting and injecting drug users in Cape Town, Pretoria and Durban, South Africa (Phase III)*. Parow: MRC, 2008.
8. Parry CDH, Carney T, Petersen P, Plüddemann A. *Mid-Term Report to CDC: Drug use and sexual HIV risk patterns among non-injecting drug users in Cape Town, Pretoria and Durban, South Africa (Phase III)*. MRC: Parow, 2008.
9. Parry CDH. Sections of Ch. 9 (Adolescent Health) and Ch. 13 (Adult Health Risk Profiles). In: *South African Demographic and Health Survey 2003*. Pretoria: Department of Health, 2008: 151-196, 258-297.
10. Pithey A, Parry CDH. *Review of sub-Saharan African studies on the association between alcohol use and HIV infection*. Parow: MRC, 2008.
11. Plüddemann A, Parry CDH, Bhana A, Fourie D. (2008). *Alcohol and Drug Abuse Trends: January – June*. SACENDU Update 24, 1-2. Parow: MRC, 2008.
12. Plüddemann A, Hon S, Bhana, A, SANCA PE, Potgieter H, Gerber W, SANCA EL, Petersen P, Parry CDH. *Monitoring Alcohol and Drug Abuse Trends in South Africa*. Proceedings of SACENDU Report Back Meetings, April 2008: July - December 2007 (Phase 23). Parow: Medical Research Council, 2008.
13. Plüddemann A, Parry CDH, Cerff P, Bhana A, SANCA PE, Potgieter H, Gerber W, SANCA CEC, Petersen P, Carney T. (2008). *Monitoring Alcohol and Drug Abuse Trends in South Africa (July 1996 - December 2007)*. *SACENDU Research Brief* 2008; 11 (1): 1-12.
14. Plüddemann A, Parry CDH, Bhana A. *Alcohol and Drug Abuse Trends: July-December 2007*, SACENDU Update 23, 1-2. Parow: MRC, 2008.
15. Rendall-Mkosi K, London L, Adnams C, Morojele N, McLoughlin J, Goldstone C. *Fetal Alcohol Spectrum Disorder in South Africa: Situational and Gap Analysis*. Pretoria: University of Pretoria, 2008.

HEALTH PROMOTION RESEARCH AND DEVELOPMENT UNIT



Director: Prof Priscilla Reddy

Mandate:

To conduct innovative research to develop, evaluate and disseminate effective behavioural, social, environmental and economic interventions to prevent disease and illness by reducing behaviours that place people at risk and by increasing protective behaviours. Interventions should address the social and cultural contexts within which risks occur (e.g. social class, gender, race, culture, age, education, ethnicity, disadvantage and exposure to prejudice). The research conducted by the unit is informed by founding documents of health promotion, the Alma Ata declaration, the Ottawa Charter, WHO documents on Essential National Health Research (ENHR), the MRC's strategic research plan for 2005-2010, the National Health Plan and the Millennium Development Plan (UN).

Peer-reviewed journal articles

1. Wingood GM, Reddy SP, Peterson SH, DiClemente RJ, Braxton N, Mbewu AD. HIV Stigma and Mental Health Status among Women Living with HIV in the Western Cape, South Africa. *S Afr J Sci* 2008; 104(5): 237-240 [Letter].
2. Reddy SP, Sifunda S, James S, Kambaran N, Ouardien R. Exposure to traffic related hazards amongst high school learners in South Africa: Findings from the 1st SA National Youth Risk Behaviour Survey, 2002. *ASP* 2008; 6(1): 22-29.
3. Resnicow K, Reddy SP, James S, Gabebodeen Ouardien R, Kambaran NS, Langner HG, Vaughan RD, Cross D, Hamilton G, Nichols T. Comparison of two school-based smoking prevention programs among South African high school students: results of a randomized trial. *Ann Behav Med* 2008; 36(3): 231-243.
4. Saleh-Onoya D, Braxton ND, Sifunda S, Reddy P, Ruiter R, van den Borne B, Walters TP, Lang D, Wingood GM. SISTA South Africa: the adaptation of an efficacious HIV prevention trial conducted with African-American women for isiXhosa-speaking South African women. *SAHARA J* 2008; 5(4): 186-191.

5. Ayo-Yusuf OA, Reddy PS, van den Borne BW. Association of snuff use with chronic bronchitis among South African women: implications for tobacco harm reduction. *Tobacco Control* 2008; 17(2): 99-104.

Dissertations and theses

1. Ayo-Yusuf Lekan. *Smoking: Prevention and cessation among adolescents in South Africa*. Cape Town: MRC, 2008. ISBN: 0-620-33911-X



CANCER

CANCER EPIDEMIOLOGY RESEARCH UNIT



Acting Director: Dr Lara Stein

Mandate:

The Cancer Epidemiology Research Group aims to identify causes of human cancer in South Africa that are potentially preventable, in order to inform policy on cancer prevention and control, by focusing on:

- widespread exposures that may result in large increases in cancer risks (e.g. tobacco and HIV infection);
- potential and escalating causes of cancer (e.g. infections such as human herpesvirus 8, human papillomaviruses, hormonal contraceptives);
- the epidemiology of the major cancers affecting the South African population (e.g. breast, cervix, prostate, oesophagus, lung) and cancers that are increasing in incidence among South Africans (e.g. Kaposi's sarcoma, non-Hodgkin's lymphoma); and
- the genetic epidemiology of major cancers affecting the South African population.

Peer-reviewed journal articles

1. Stein L, Urban MI, O'Connell D, Yu XQ, Beral V, Newton R, Ruff P, Donde B, Hale M, Patel M, Sitas F. The spectrum of human immunodeficiency virus-associated cancers in a South African black population: results from a case-control study, 1995-2004. *Int J Cancer* 2008; 122(10): 2260-2265.
2. Stein L, Urban MI, Weber M, Ruff P, Hale M, Donde B, Patel M, Sitas F. Effects of tobacco smoking on cancer and cardiovascular disease in urban black South Africans. *Br J Cancer* 2008; 98(9): 1586-1592.
3. Malope BI, MacPhail P, Mbisa G, MacPhail C, Stein L, Ratshikhopha EM, Ndhlovu L, Sitas F, Whitby D. No evidence of sexual transmission of Kaposi's sarcoma herpes virus in a heterosexual South African population. *AIDS* 2008; 22(4): 519-526.
4. Parkin DM, Sitas F, Chirenje M, Stein L, Abratt R, Wabinga H. Part I: Cancer in Indigenous Africans -

burden, distribution, and trends.

Lancet Oncol 2008; 9(7): 683-692.

5. Sitas F, Parkin DM, Chirenje M, Stein L, Abratt R, Wabinga H. Part II: Cancer in Indigenous Africans - Causes and Control.

Lancet Oncol 2008; 9(8): 786-795.

PROME C



Interim Director: Prof Wentzel Gelderblom

Mandate:

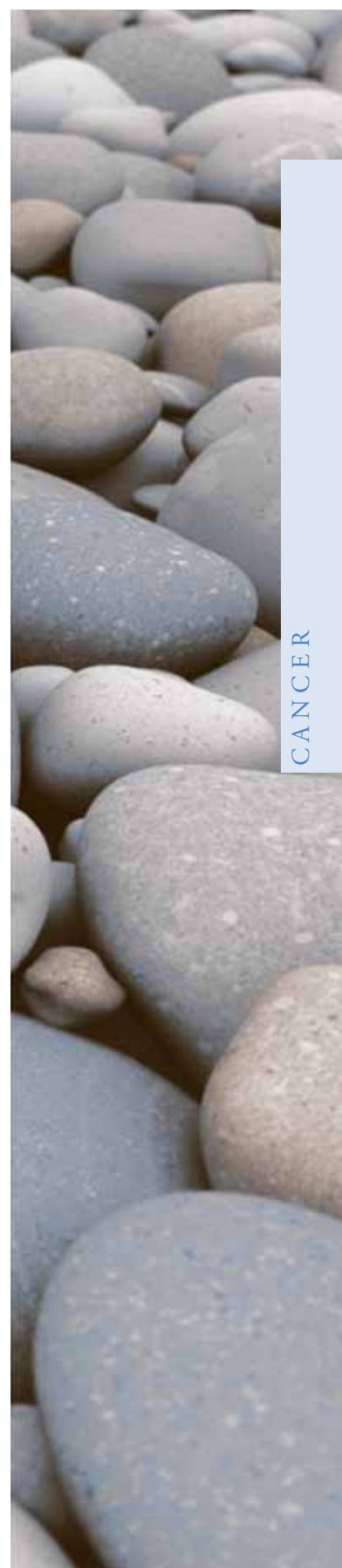
The PROMEC Unit is committed to excellence in science and conducting world-class research to solve health problems in South Africa with the objective of building a healthy nation through research. The main thrust is to address health issues related to food safety, nutrition and cancer. The multidisciplinary PROMEC research team with internationally acknowledged expertise in Microbiology, Analytical Chemistry, Biochemistry, Cancer Registry and Experimental Carcinogenesis is focused on staple foodstuffs in the diet of millions of South Africans. The main thrust is to address health issues related to food safety, nutrition and cancer.

Peer-reviewed journal articles

1. de Meyer EM, de Beer ZW, Summerbell RC, Moharram AM, de Hoog GS, Vismar HF, Wingfield MJ. Taxonomy and phylogeny of new wood- and soil-inhabiting *Sporothrix* species in the *Ophiostoma stenoceras-Sporothrix schenckii* complex. *Mycologia* 2008; 100(4): 647-661.
2. Eloff JN, Katerere DR, McGaw LJ. The biological activity and chemistry of the Southern African Combretaceae. *J Ethnopharmacol* 2008; 119(3): 686-699.
3. Gamielien K, Maritz GS. Influence of maternal nicotine exposure during gestation and lactation on lactate dehydrogenase isoenzyme profile and transcript levels in developing neonatal rat lung. *Pathophysiology* 2008; 15(1): 1-8.
4. Gelderblom WCA, Marasas WFO, Lebepe-Mazur S, Swanevelder S, Abel S. Cancer initiating properties of fumonisin B1 in a short-term rat liver carcinogenesis assay. *Toxicology* 2008; 250(2-3): 89-95.
5. Joubert E, Richards ES, Van der Merwe JD, De Beer D, Manley M, Gelderblom WCA. Effect of species variation and processing on phenolic composition and *in vitro* antioxidant activity of aqueous extracts of *Cyclopia* spp (honeybush tea). *J Agric Food Chem* 2008; 56(3): 954-963.
6. Joubert E, Gelderblom WCA, Louw A, de Beer D. South African herbal teas: *Aspalathus linearis*, *Cyclopia* spp. and *Athrixia phyllicoides* - a review. *J Ethnopharmacol* 2008; 119(3): 376-412.
7. Katerere DR, Stockenström S, Shephard GS. HPLC-DAD Method for the determination of patulin in dried apple rings. *Food Control* 2008; 19(4): 389-392.
8. Katerere DR, Eloff JN. Anti-bacterial and antioxidant activity of *Hypoxis hemerocallidea* (Hypoxidaceae): Can leaves be substituted for corms as a conservation strategy? *SA J Bot* 2008; 74(4): 613-616.
9. Manikandan P, Vismar HF, Kredics L, Dóczi I, Marasas WF, Bhaskar M. Corneal ulcer due to *Neocosmospora vasinfecta* in an immunocompetent patient. *Med Mycol* 2008; 46(3): 279-284.
10. Rheeder JP. *Guidelines on the application of good agricultural practices (GAP) and the HACCP system in mycotoxin prevention and control in South Africa*. Food and Agriculture Organization (FAO) of the United Nations, South African National Departments of Health and Agriculture, 2008. [Not Indexed]
11. Shephard GS. The impact of mycotoxins on human health in developing countries. *Food Addit Contam Part A Chem Anal Control Expo Risk Assess* 2008; 25(2): 146-151.
12. Shephard GS. General Referee Report: Mycotoxins. *J AOAC Int* 2008; 91: 1B-19B.
13. Shephard GS. Risk assessment of aflatoxins in food in Africa. *Food Addit Contam Part A Chem Anal Control Expo Risk Assess* 2008; 25(10): 1246-1256.
14. Shephard GS. Determination of mycotoxins in human foods. *Chem Soc Rev* 2008; 37(11): 2468-2477.
15. Shephard GS. Instant insight: Is your food safe to eat? *Chemical Science* 2008; 5: C85. [Not Indexed]
16. Van der Westhuizen L, Shephard GS, Rheeder JP, Somdyala NIM, Marasas WFO. Sphingoid base levels in humans consuming fumonisin contaminated maize from rural areas in the former Transkei, South Africa: A cross sectional study. *Food Addit Contam Part A* 2008; (25)11: 1385-1391.

Book chapters

1. Gelderblom WCA, Riedel S, Burger H-M, Abel S, Marasas WFO. Carcinogenesis by the fumonisins: mechanisms, risk analyses and implications. In: Siantar DP, Trucksess MW, Scott PM, Herman EM, Eds. *Food Contaminants, Mycotoxins and Food Allergies*. ACS Symposium Series 1001, 2008: 80-95.
2. Marasas WFO, Gelderblom WCA, Shephard GS, Vismar HF. Mycotoxins: A global problem. In: Leslie JF, Bandyopadhyay R, Visconti A, Eds. *Mycotoxins*:



CANCER



Detection Methods, Management, Public Health and Agricultural Trade. Wallingford: CABI, 2008: 29-39.

3. Shephard GS, Vismar HF. Effects of processing on the mycotoxin content in fruit juice. In: Barkai-Golan R, Paster N, Eds. *Mycotoxins in Fruits and Vegetables.* Amsterdam: Elsevier, 2008: 335-349.

Technical reports

1. Abel S. *Establishing endpoints to evaluate the modulating effects of specific n-6/n-3 FA ratios on colon cancer development in an animal model and colon cancer in humans.* CANSA, May 2008.
2. Gamielidien K, Gelderblom WCA. *Therapeutic properties of rooibos and honeybush extracts against skin carcinogenesis.* 3rd year application report. CANSA, May 2008.
3. Gelderblom WCA, Shephard GS, Abel S, Gamielidien K, Burger H. Interim report submitted to CARISA Annual report, June 2008.
4. Katerere DR, Gamielidien K, Ntuli SSB, Meela M, Gelderblom WCA. *Biochemical and phytochemical evaluation of sutherlandia in anti-tumour assays.* 3rd year application report. CANSA, May 2008.
5. Somdyala NIM, Bradshaw, Kigozi L, Gelderblom WCA. *Population-based cancer registry in the Eastern Cape.* 3rd Year application report. CANSA, May 2008.
6. Van der Westhuizen L, Gong YY, Shephard GS, Burger H-M, Gelderblom WCA, Rheeder JP, Vismar HF, Wild CP. *Progress report on the Sir Halley Stewart Trust Project - Reducing toxic contamination of staple foods in developing countries by simple intervention strategies.* Season 2, December 2008.
7. Van der Westhuizen L. *Urinary biomarkers of fumonisin exposure and oesophageal cancer.* ICRET International Cancer Technology Transfer Fellowship (ICRETT) Report to the International Union against Cancer (UICC), 1 September - 30 October.

Dissertations and theses

1. Ms I Schuhr, MSc, Westfälische Wilhelms-Universität Münster, Germany. To investigate the anti-oxidant potential of Oleic acid (C18:1n-9) in primary and cancer cells. Promoter: Prof. Dr Karl Speer, University of Technology Dresden (TU Dresden) and Dr S Abel (Co-Promoter).
2. Ms L Sissing, MSc Physiology, UWC. Investigations into the cancer modulating properties of *Aspalathus linearis* (Rooibos), *Cyclopia intermedia* (Honeybush) and *Sutherlandia frutescens* (Cancer bush) in oesophageal carcinogenesis (Prof WCA Gelderblom – Study Leader).

OESOPHAGEAL CANCER RESEARCH UNIT



Director: Prof Iqbal Parker

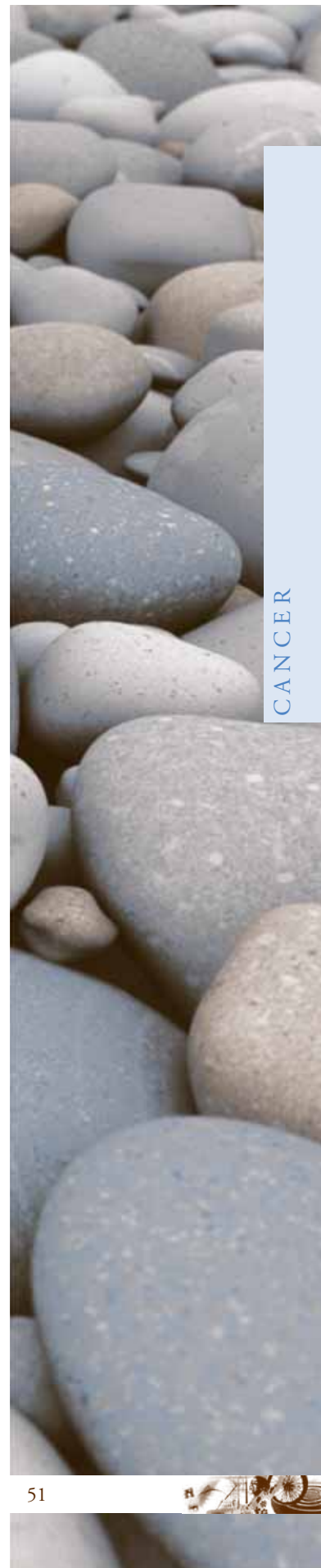
Mandate:

The MRC/CANSA Oesophageal Cancer Research Group is a multidisciplinary group of researchers based at the Universities of Cape Town and Stellenbosch as well as at PROMEC (MRC). The mandate of this group is to investigate the epidemiological factors and molecular lesions in oesophageal cancer. The focus areas of the Group span across several MRC National Programmes - these include the National Programmes for Research in Molecules to disease, Non-communicable Disease and Environment & Development. Projects managed by the group can be divided into Molecular Biology, population-based Cancer registry and nutritional factors in Oesophageal Cancer.

Peer-reviewed journal articles

1. Donniger H, Binder A, Bohm L, Parker MI. Differential effects of novel tumour-derived p53 mutations on the transformation of NIH 3T3 cells. *Biol Chem* 2008; 389(1): 57-67.
2. Abrahams A, Mowla S, Parker MI, Goding CR, Prince S. UV mediated regulation of the anti-senescence factor, Tbx2. *J Biol Chem* 2008; 283(4): 2223-2230.
3. Li DP, Dandara C, Walther G, Parker MI. Genetic polymorphisms of alcohol metabolising enzymes: their role in susceptibility to oesophageal cancer. *Clin Chem Lab Med* 2008; 46(3): 323-328.
4. Teng H, Parker MI, Prince S. Functional characterization of cis-acting elements involved in basal transcription of the human Tbx2 gene: A new insight into the role of Sp1 in transcriptional regulation. *Gene* 2008; 423(1): 8-13.
5. Hunter R, Kaschula CH, Parker IM, Cairn MR, Richards P, Travis S, Taut F, Qwebani T. Substituted ajoenes as novel anti-cancer agents. *Bioorg Med Chem Lett* 2008; 18(19): 5277-5279.
6. van Wyk AW, Gray CA, Whibley CE, Osoniyi O, Hendricks DT, Cairn MR, Davies-Coleman MT. Bioactive metabolites from the South African marine mollusk *Trimusculus costatus*.

- J Nat Prod* 2008; 71(3): 420-425.
7. Darcy KM, Brady WE, McBroom JW, Bell JG, Young RC, McGuire WP, Linnoila RI, Hendricks D, Bonome T, Farley JH. Associations between p53 overexpression and multiple measures of clinical outcome in high-risk, early stage or suboptimally-resected, advanced stage epithelial ovarian cancers: A Gynecologic Oncology Group study.
Gynecol Oncol 2008; 111(3): 487-495.
 8. Gelderblom WCA, Marasas WFO, Lebepe-Mazur S, Swanevelder S, Abel S. Cancer initiating properties of fumonisin B1 in a short-term rat liver carcinogenesis assay.
Toxicology 2008; 250(2-3): 89-95.
 9. Joubert E, Gelderblom WCA, Louw A, de Beer D. South African herbal teas: *Aspalathus linearis*, *Cyclopia* spp. and *Athrixia phylloides* - a review.
J Ethnopharmacol 2008; 119(3): 376-412.



GENOMICS AND PROTEOMICS

BIOINFORMATICS CAPACITY DEVELOPMENT RESEARCH UNIT



Director: Prof Win Hide

Mandate:

SANBI provides a focus for biological research located in Africa in the provision of an excellent bioinformatic resource focused on Africa and African concerns. The Bioinformatics Unit aims to heighten awareness of bioinformatics in South Africa and to assist the country in making optimal use of this technology. The MRC Unit at SANBI is focused on:

- Services provided by the Unit to focus upon specific health-related projects.
- Provision of bioinformatics capacity development and training on key health domains of HIV, malaria and disease vectors.
- Genome annotation to encompass capacity development of people and development and/or utilisation of technologies to discover genes that contribute to or impact upon human health, to include disease gene discovery in complex diseases for instance, diabetes, cancer.

Peer-reviewed journal articles

1. Mathivanan S, Ahmed M, Ahn NG, Alexandre H, Amanchy R, Andrews PC, Bader JS, Balgley MB, Bantscheff M, Bennett KL, Björling E, Blagoev B, Bose R, Bahmachari SK, Burlingame AS, Bustelo XR, Cagney G, Cantin GT, Cardasis HL, Celis JE, Chaerkady R, Chu F, Cole PA, Costello CE, Cotter RJ, Crockett D, DeLany JP, De Marzo AM, DeSouza LV, Deutsch EW, Dransfield E, Drewes G, Droit A, Dunn MJ, Elenitoba-Johnson K, Ewing RM, Van Eyk J, Faca V, Falkner J, Fang X, Fenselau C, Figeys D, Gagné P, Gelfi C, Gevaert K, Gimble JM, Gnad F, Goel R, Gromov P, Hanash SM, Hancock WS, Harsha HC, Hart G, Hays F, He F, Hebbbar P, Helsen K, Hermeking H, Hide W, Hjærnø K, Hochstrasser DF, Hofmann O, Horn DM, Hruban RH, Ibarrola N, James P,

Jensen ON, Jensen PH, Jung P, Kandasamy K, Kheterpal I, Kikuno RF, Korf U, Körner R, Kuster B, Kwon MS, Lee HJ, Lee YJ, Lefevre M, Lehvaslaiho M, Lescuyer P, Levander F, Lim MS, Lökke C, Loo JA, Mann M, Martens L, Martinez-Heredia J, McComb M, McRedmond J, Mehrle A, Menon R, Miller CA, Mischak H, Mohan SS, Mohmood R, Molina H, Moran MF, Morgan JD, Moritz R, Morzel M, Muddiman DC, Nalli A, Navarro JD, Neubert TA, Ohara O, Oliva R, Omenn GS, Oyama M, Paik YK, Pennington K, Pepperkok R, Periaswamy B, Petricoin EF, Poirier GG, Prasad TS, Purvine SO, Rahiman BA, Ramachandran P, Ramachandra YL, Rice RH, Rick J, Ronnholm RH, Salonen J, Sanchez JC, Sayd T, Seshi B, Shankari K, Sheng SJ, Shetty V, Shivakumar K, Simpson RJ, Sirdeshmukh R, Siu KW, Smith JC, Smith RD, States DJ, Sugano S, Sullivan M, Superti-Furga G, Takatalo M, Thongboonkerd V, Trinidad JC, Uhlen M, Vandekerckhove J, Vasilescu J, Veenstra TD, Vidal-Taboada JM, Vihinen M, Wait R, Wang X, Wiemann S, Wu B, Xu T, Yates JR, Zhong J, Zhou M, Zhu Y, Zurbig P, Pandey A. Human proteinpedia enables sharing of human protein data.

Nat Biotechnol 2008; 26(2): 164-167.

2. Chopera DR, Woodman Z, Mlotshwa M, Martin DP, Seoighe C, Treurnicht F, Assis de Rosa D, Hide W, Mlisana K, Abdool Karim S, Gray CM, Williamson C. Transmission of HIV-1 CTL escape variants provides HLA-mismatched recipients with a survival advantage. *PLoS Pathog* 2008; 4(3): e1000033.
3. Hazelhurst S, Hide W, Liptak Z, Nogueira R, Starfield R. An overview of the wcd EST Clustering Tool. *Bioinformatics* 2008; 24(13): 1542-1546.
4. Howe D, Costanzo M, Fey P, Gojorbori T, Hannick L, Hide W, Hill DP, Kania R, Schaeffer M, St. Pierre S, Twigger S, White O, Rhee SY. The Future of Biocuration. *Nature* 2008; 455(7209): 47-50.
5. Hofmann O, Caballero OL, Stevenson BJ, Chen YT, Cohen T, Chua R, Maher CA, Panji S, Schaefer U, Kruger A, Lehvaslaiho M, Carninci P, Hayashizaki Y, Jongeneel CV, Simpson AJG, Old LJ, Hide W. Genome-wide analysis of cancer/testis gene expression. *Proc Natl Acad Sci USA* 2008; 105(51): 20422-20427.
6. Armitage AE, Katzourakis A, de Oliveira T, Welch JJ, Belshaw R, Bishop KN, Kramer B, McMichael AJ, Rambaut A, Iversen AKN. Conserved footprints of APOBEC3G on hypermutated HIV-1 and HERV-K(HML2) sequences. *J Virol* 2008; 82(17): 8743-8761.
7. Salemi M, de Oliveira T, Ciccozzi M, Rezza G, Goodenow MM. High-resolution molecular epidemiology and evolutionary history of HIV-1 subtypes in Albania. *PLoS ONE* 2008; 3(1): e1390.
8. Salemi M, Goodenow MM, Montieri S, de Oliveira T, Santoro MM, Beshkov D, Alexiev I, Elenkov I, Elenkov I,

- Yakimova T, Varleva T, Rezza G, Ciccozzi M.
The HIV Type 1 Epidemic in Bulgaria involves multiple subtypes and is sustained by continuous viral inflow from West and East European countries.
AIDS Res Hum Retroviruses 2008; 24(6): 771-779.
9. D'Amato ME, Harkins GW, de Oliveira T, Teske PR, Gibbons MJ. Molecular dating and biogeography of the neritic krill *Nyctiphanes*.
Marine Biology 2008; 155(2): 243-247.
 10. Sagar S, Kaur M, Dawe A, Seshadri SV, Christoffels A, Schaefer U, Radovanovic A, Bajic VB. DDESC: Dragon Database for Exploration of Sodium Channels in Human.
BMC Genomics 2008; 9: 622.
 11. Thompson CL, Pathak S, Jeromin A, Ng L, MacPherson C, Mortrud M, Cusick A, Riley Z, Sunkin SM, Bernard A, Puchalski R, Gage FH, Jones AR, Bajic VB, Hawrylycz MJ, Lein ES. Genomic Anatomy of the Hippocampus.
Neuron 2008; 60(6): 1010-1021.
 12. Meier S, Gehring C, MacPherson CR, Kaur M, Maqungo M, Reuben S, Muyanga S, Shih MD, Wei FJ, Wanchana S, Mauleon R, Radovanovic A, Bruskiwich R, Tanaka T, Mohanty B, Itoh T, Wing R, Gojbori T, Sasaki T, Swarup S, Hsing YI, Bajic VB. The promoter signatures in rice LEA genes can be used to build a co-expressing LEA gene network.
Rice 2008; 1(2): 177-187.
 13. Kaur M, Schmeier S, MacPherson CR, Hofmann O, Hide WA, Taylor S, Willcox N, Bajic VB. Prioritizing genes of potential relevance to diseases affected by sex hormones: An example of myasthenia gravis.
BMC Genomics 2008; 9: 481.
 14. Meier S, Bastian R, Donaldson L, Murray S, Bajic V, Gehring C. Co-expression and promoter content analyses assign a role in biotic and abiotic stress responses to plant natriuretic peptides.
BMC Plant Biol 2008; 8: 24.
 15. Hannah MF, Bajic VB, Klein SL. Sex differences in the recognition of and innate antiviral responses to Seoul virus in Norway rats.
Brain Behav Immun 2008; 22(4): 503-516.

BONE RESEARCH UNIT



Director: Prof Ugo Ripamonti

Mandate:

The Bone Research Unit is a joint undertaking between MRC and the University of the Witwatersrand, Johannesburg. It is committed to gaining insights into the mechanisms of bone, cartilage and connective tissue morphogenesis, development and regeneration, and to promoting and accelerating the healing of bone in man. The Unit strives to provide new information in order to:

- plan therapeutic strategies to initiate and manipulate tissue morphogenesis and bone regeneration;
- facilitate bone growth into prosthetic implants;
- restore local and systemic bone mass; and
- develop synthetic bone substitutes for the twenty-first century.

Peer-reviewed journal articles

1. Ripamonti U, Ramoshebi LN, Teare J, Ferretti C. The induction of endochondral bone formation by transforming growth factor- β 3: Experimental studies in the non-human primate *Papio ursinus*.
J Cell Mol Med 2008; 12(3): 1029-1048.
2. Ripamonti U, Richter PW, Nilen RWN, Renton L. Induction of bone formation by smart biphasic hydroxyapatite tricalcium phosphate biomimetic matrices in the non-human primate *Papio ursinus*.
J Cell Mol Med 2008; 12(6B): 2609-2621.
3. Teare J, Ramoshebi LN, Ripamonti U. Periodontal tissue regeneration by recombinant human transforming growth factor- β 3 in *Papio ursinus*.
J Periodontal Res 2008; 43(1): 1-8.
4. Ripamonti U, Richter PW, Nilen RWN, Ramoshebi LN, Renton L, Heliotis M. Biomimetic smart hydroxyapatite/biphasic tricalcium phosphate biomatrices induce bone formation. *Key Engineering Materials*. Town?: publisher? 2008; Volume 361-363 (Part 2), 981-984.

Book chapters

1. Ripamonti U, Ferretti C, Heliotis M. Chapter 31: Soluble molecular signals and the induction of bone formation. In: Guyuron B, Eriksson E, Persing JA, Eds. *Plastic Surgery. Indication and Practice*. St Louis: Elsevier



Science Global Medicine, 2008: 363-374.

2. Ripamonti U, Teare J, Petit J-C. Induction of cementogenesis and periodontal ligament by bone morphogenetic proteins. In: Vukicevic S, Ed. *Bone Morphogenetic Proteins: From Local to Systemic Therapeutics*. Basel: Birkauer Verlag, 2008: 233-256.

HUMAN GENETICS RESEARCH UNIT



Director: Prof Raj Ramesar

Mandate:

The mandate of the unit is to develop human and technological research capacity in the field of human health genomics with a focus on the genome research/clinic interface, building capacity as one of its major outcomes.

To date, the Division of Human Genetics has played an important role in:

- the early diagnosis of inherited disorders, their management and treatment;
- providing genetic counselling; and
- conducting research towards offering predictive testing and the possibility of preventing recurrence of respective diseases.

Peer-reviewed journal articles

1. Ivings L, Towns KV, Matin MA, Taylor C, Ponchel F, Grainger RJ, Ramesar RS, Mackey DA, Inglehearn CF. Evaluation of splicing efficiency in lymphoblastoid cell lines from patients with splicing-factor retinitis pigmentosa. *Mol Vis* 2008; 14: 2357-2366.
2. Roberts L, Rebello G, Ramesar R, Greenberg J. Management of a South African family with retinitis pigmentosa - should potential therapy influence translational research protocols? *J Ocul Biol Dis & Infect* 2008; 1(1): 55-58.
3. Dakshinamurthy AM, Ramesar R, Goldberg P, Blackburn JM. Infrequent and low expression of cancer-testis antigens located on the X chromosome in colorectal cancer: Implications for immunotherapy in South African populations. *Biotechnol J* 2008; 3(11): 1417-1423.
4. Ibirogba SB, Algar U, Goldberg PA, Duffield M, Vorster A, Ramesar R. The clinical and pathological features of hereditary mixed polyposis syndrome: report on a South African family. *SAJS* 2008; 46(3): 90-92.
5. Blokhuis MM, Goldberg PA, Pietersen GE, Algar U, Vorster A, Govender D, Ramesar RS. The extracolonic cancer spectrum in females with the common 'South

- African' hMLH1 c.C1528T mutation.
Familial Cancer 2008; 7(3): 191-198.
6. Burn J, Bishop DT, Mecklin JP, Macrae F, Möslein G, Olschwang S, Bisgaard ML, Ramesar R, Eccles D, Maher ER, Bertario L, Jarvinen HJ, Lindblom A, Evans DG, Lubinski J, Morrison PJ, Ho JW, Vasen HF, Side L, Thomas HJ, Scott RJ, Dunlop M, Barker G, Elliott F, Jass JR, Fodde R, Lynch HT, Mathers JC; CAPP2 Investigators. Effect of aspirin or resistant starch on colorectal neoplasia in the Lynch syndrome.
N Engl J Med 2008; 359(24): 2567-2578.
 7. Savitz J, van der Merwe L, Ramesar R. Personality endophenotypes for bipolar affective disorder: a family-based genetic association analysis.
Genes Brain Behav 2008; 7(8): 869-876.
 8. Savitz JB, van der Merwe L, Stein DJ, Solms M, Ramesar RS. Neuropsychological task performance in bipolar spectrum illness: genetics, alcohol abuse, medication and childhood trauma.
Bipolar Disord 2008; 10(4): 479-494.
 9. Savitz J, van der Merwe L, Ramesar R. Dysthymic and anxiety-related personality traits in bipolar spectrum illness.
J Affect Disord 2008; 109(3): 305-311.
 10. Savitz J, van der Merwe L, Ramesar R. Hypomanic, cyclothymic and hostile personality traits in bipolar spectrum illness: A family-based study.
J Psychiatr Res 2008; 42(11): 920-929.
 11. Savitz J, van der Merwe, L, Solms M, Ramesar R. The relationship between childhood abuse and dissociation. Is it influenced by catechol-o-methyltransferase (COMT) activity?
Int J Neuropsychopharmacol 2008; 11(2): 149-161.
 12. Sirugo G, Hennig BJ, Adeyemo AA, Matimba A, Newport MJ, Ibrahim ME, Ryckman KK, Tacconelli A, Mariani-Costantini R, Novelli G, Soodyall H, Rotimi CN, Ramesar RS, Tishkoff SA, Williams SM. Genetic studies of African populations: an overview on disease susceptibility and response to vaccines and therapeutics.
Hum Genet 2008; 123(6): 557-598.
 13. Tiffin N, Okpechi I, Perez-Iratxeta C, Andrade-Navarro M A, Ramesar R. Prioritization of candidate disease genes for metabolic syndrome by computational analysis of its defining phenotypes.
Physiol Genomics 2008; 35(1): 55-64.
 14. Hardy B-J, Séguin B, Ramesar RS, Singer PA, Daar AS. South Africa: from species cradle to genomic applications.
Nat Rev Genet 2008; 9, Suppl 1: S19-23.
 15. Cotton RG, Auerbach AD, Axton M, Barash CI, Berkovic SF, Brookes AJ, Burn J, Cutting G, den Dunnen JT, Flicek P, Freimer N, Greenblatt MS, Howard HJ, Katz M, Macrae FA, Maglott D, Möslein G, Povey S, Ramesar RS, Richards CS, Seminara D, Smith TD, Sobrido MJ, Solbakk JH,

Tanzi RE, Tavtigian SV, Taylor GR, Utsunomiya J, Watson M. GENETICS. The Human Variome Project.
Science 2008; 322(5903): 861-862.



HUMAN GENOMIC & DIVERSITY RESEARCH UNIT



Director: Prof Himla Soodyall

Mandate:

The major goal of the Unit is to incorporate population history in mapping and modelling human genetic variation. Through the activities of the Unit we propose to:

- elucidate the demographic and evolutionary processes responsible for producing the complex patterns of variation in sub-Saharan and Malagasy populations and to use this data to:
 - reconstruct the prehistory of sub-Saharan African and Malagasy populations
 - shed light on modern human origins;
- use population gene diversity to study population susceptibility to disease; and
- examine how variation in mitochondrial DNA (mtDNA) is associated with disease.

Peer-reviewed journal articles

1. Soodyall H, Makkan H, Haycock P, Naidoo T. The prehistory of the Khoen and San. *Southern Afr Humanities* 2008; 20: 37-48.
2. Zalloua PA, Platt DE, El Sibai M, Khalife J, Makhoul N, Haber M, Xue Y, Izaabel H, Bosch E, Adams SM, Arroyo E, López-Parra AM, Aler M, Picornell A, Ramon M, Jobling MA, Comas D, Bertranpetit J, Wells RS, Tyler-Smith C; Geographic Consortium (Schurr TG, Santos FR, Quintana-Murci L, Bertranpetit J, Comas D, Tyler-Smith C, Zalloua PA, Balanovska E, Balanovsky O, Behar DM, Mitchell RJ, Jin L, Soodyall H, Pitchappan R, Cooper A, Royyuru AK, Rosset S, Blue-Smith J, Hernanz DF, Wells RS). Identifying genetic traces of historical expansions: Phoenician footprints in the Mediterranean. *Am J Hum Genet* 2008; 83(5): 633-642.
3. Rosset S, Wells RS, Soria-Hernanz DF, Tyler-Smith C, Royyuru AK, Behar DM; Geographic Consortium (Schurr TG, Santos FR, Quintana-Murci L, Bertranpetit J, Comas D, Tyler-Smith C, Zalloua PA, Balanovska E, Balanovsky O, Behar DM, Mitchell RJ, Jin L, Soodyall H, Pitchappan R, Cooper A, Royyuru AK, Rosset S, Blue-Smith J, Hernanz DF, Wells RS). Maximum-likelihood estimation of site-specific mutation rates in

human mitochondrial DNA from partial phylogenetic classification.

Genetics 2008; 180(3): 1511-1524.

4. Behar DM, Blue-Smith J, Soria-Hernanz DF, Tzur S, Hadid Y, Bormans C, Moen A, Tyler-Smith C, Quintana-Murci L, Wells RS; Geographic Consortium (Schurr TG, Santos FR, Quintana-Murci L, Bertranpetit J, Comas D, Tyler-Smith C, Zalloua PA, Balanovska E, Balanovsky O, Behar DM, Mitchell RJ, Jin L, Soodyall H, Pitchappan R, Cooper A, Royyuru AK, Rosset S, Blue-Smith J, Hernanz DF, Wells RS). A novel 154-bp deletion in the human mitochondrial DNA control region in healthy individuals. *Hum Mutat* 2008; 29(12): 1387-1391.
5. Sirugo G, Hennig BJ, Adeyemo AA, Matimba A, Newport MJ, Ibrahim ME, Ryckman KK, Tacconelli A, Mariani-Costantini R, Novelli G, Soodyall H, Rotimi CN, Ramesar RS, Tishkoff SA, Williams SM. Genetic studies of African populations: an overview on disease susceptibility and response to vaccines and therapeutics. *Hum Genet* 2008; 123(6): 557-598 [Review].
6. Behar DM, VILLEMS R, Soodyall H, Blue-Smith J, Pereira L, Metspalu E, Scozzari R, Makkan H, Tzur S, Comas D, Bertranpetit J, Quintana-Murci L, Tyler-Smith C, Wells RS, Rosset S; Geographic Consortium (Schurr TG, Santos FR, Quintana-Murci L, Bertranpetit J, Comas D, Tyler-Smith C, Zalloua PA, Balanovska E, Balanovsky O, Behar DM, Mitchell RJ, Jin L, Soodyall H, Pitchappan R, Cooper A, Royyuru AK, Rosset S, Blue-Smith J, Hernanz DF, Wells RS). The dawn of human matrilineal diversity. *Am J Hum Genet* 2008; 82(5): 1130-1140.
7. Zalloua PA, Xue Y, Khalife J, Makhoul N, Debiane L, Platt DE, Royyuru AK, Herrera RJ, Hernanz DF, Blue-Smith J, Wells RS, Comas D, Bertranpetit J, Tyler-Smith C; Geographic Consortium (Schurr TG, Santos FR, Quintana-Murci L, Bertranpetit J, Comas D, Tyler-Smith C, Zalloua PA, Balanovska E, Balanovsky O, Behar DM, Mitchell RJ, Jin L, Soodyall H, Pitchappan R, Cooper A, Royyuru AK, Rosset S, Blue-Smith J, Hernanz DF, Wells RS). Y-chromosomal diversity in Lebanon is structured by recent historical events. *Am J Hum Genet* 2008; 82(4): 873-882.
8. Pilkington MM, Wilder JA, Mendez FL, Cox MP, Woerner A, Angui T, Kingan S, Mobasher Z, Batini C, Destro-Bisol G, Soodyall H, Strassmann BI, Hammer MF. Contrasting signatures of population growth for mitochondrial DNA and Y chromosomes among human populations in Africa. *Mol Biol Evol* 2008; 25(3): 517-525.

Dissertations and theses

1. Ms Khanya Vokwana, M.Sc. Mapping gene variation in Sub-Saharan African Populations, 2008.

RECEPTOR BIOLOGY RESEARCH UNIT



Director: Prof Arieh Katz

Mandate:

The Group's research mandate is to study the structure and function of G protein-coupled receptors and to apply the research to understanding and treating diseases that have major effects on the social and economic welfare of South Africa. The Group's research focuses on:

- the GnRH receptors and their role in reproduction and cancers of the reproductive tract
- the role of Prostaglandins receptors and Cyclooxygenase in cervical cancer and uterine pathologies and
- the role of the the CCR5 Chemokine Receptor in HIV infection.

Peer-reviewed journal articles

1. Fromme BJ, Coetsee M, Van Der Watt P, Chan MC, Sperling KM, Katz AA, Flanagan CA. High-affinity binding of Southern African HIV type 1 subtype C envelope protein, gp120, to the CCR5 Co-receptor. *AIDS Res Hum Retroviruses* 2008; 24(12): 1527-1536.
2. Small TW, Sharp PJ, Bentley GE, Millar RP, Tsutsui K, Mura E, Deviche P. Photoperiod-independent hypothalamic regulation of luteinizing hormone secretion in a free-living Sonoran desert bird, the rufous-winged sparrow (*Aimophila carpalis*). *Brain Behav Evol* 2008; 71(2): 127-142.
3. Pflieger KD, Pawson AJ, Millar RP. Changes to gonadotropin-releasing hormone receptor extracellular loops differentially affect GnRH analog binding and activation: evidence for distinct ligand-stabilized receptor conformations. *Endocrinology* 2008; 149(6): 3118-3129.
4. White CD, Coetsee M, Morgan K, Flanagan CA, Millar RP, Lu Z-L. A crucial role for Galphaq/11, but not Galphai/o or Galphas, in gonadotropin-releasing hormone receptor-mediated cell growth inhibition. *Mol Endocrinol* 2008; 22(11): 2520-2530.
5. Hamid T, Malik MT, Millar RP, Kakar SS. Protein kinase A serves as a primary pathway in activation of Nur77 expression by gonadotropin-releasing hormone in the LbetaT2 mouse pituitary gonadotroph tumor cell line. *Int J Oncol* 2008; 33(5): 1055-1064.

6. Coetsee M, Melville L, Millar RP, Flanagan CA, Lu Z-L. Identification of Tyr290(6.58) of the human gonadotropin-releasing hormone (GnRH) receptor as a contact residue for both GnRH I and GnRH II: Importance for high-affinity binding and receptor activation. *Biochemistry* 2008; 47(39): 10305-10313.
7. Clarke IJ, Sari IP, Qi Y, Smith JT, Parkinson HC, Ubuka T, Iqbal J, Li Q, Tilbrook A, Morgan K, Pawson AJ, Tsutsui K, Millar RP, Bentley GE. Potent Action of RFamind-Related Peptide-3 on Pituitary Gonadotropes Indicative of a Hypophysiotropic Role in the Negative Regulation of Gonadotropin Secretion. *Endocrinology* 2008; 149(11): 5811-5821.
8. White C, Stewart AJ, Lu Z-L, Millar RP, Morgan K. Antiproliferative effects of GnRH agonists: prospects and problems for cancer therapy. *Neuroendocrinology* 2008; 88(2): 67-79.
9. Morgan K, Stewart AJ, Miller N, Mullen P, Muir M, Dodds M, Medda F, Harrison D, Langdon S, Millar RP. Gonadotropin-releasing hormone receptor levels and cell context affect tumor cell responses to agonist *in vitro* and *in vivo*. *Cancer Res* 2008; 68 (15): 6331-6340.
10. López de Maturana R, Pawson AJ, Lu ZL, Davidson L, Maudsley S, Morgan K, Langdon SP, Millar RP. Gonadotropin-releasing hormone analog structural determinants of selectivity for inhibition of cell growth: support for the concept of ligand-induced selective signaling. *Mol Endocrinol* 2008; 22(7): 1711-1722.
11. Pawson AJ, Faccenda E, Maudsley S, Lu ZL, Naor Z, Millar RP. Mammalian type I gonadotropin-releasing hormone receptors undergo slow, constitutive, agonist-independent internalization. *Endocrinology* 2008; 149(3): 1415-1422.
12. Evans J, Catalano RD, Morgan K, Critchley HOD, Millar RP, Jabbour HN. Prokineticin 1 signaling and gene regulation in early human pregnancy. *Endocrinology* 2008; 149(6): 2877-2887.

Dissertations and theses

1. Asonagna Theresia Forkem Folefoc, Ph.D. Functional consequences of South African mutations of the HIV-1 co-receptor, CCR5.
2. Marla Cotese, Ph.D. Ligand-induced selective signaling at the GnRH receptor.
3. Alex Salo, M.Sc. Effects of CCR5 activating mutations on HIV Infectivity. Awarded with distinction.
4. Michael de Buys, B.Sc.(Hons)(Med). Role of filamin A in type I and type II GnRH receptors expression and signaling.
5. Viwayak Bhardwaj, B.Sc.(Hons)(Med). Effects of type I and type II GnRH receptors on the cell cycle.



WOMEN, MATERNAL & CHILD HEALTH

GENDER AND HEALTH RESEARCH UNIT



Director: Prof Rachel Jewkes

Mandate:

To improve the health status and quality of life of women through high quality scientific research on gender and health which informs the development of policy, health services and health promotion. The Unit's objectives are:

- to provide scientific knowledge to inform the development of policies around gender and gender-based violence;
- to develop and demonstrate the effectiveness of interventions to prevent gender-based violence and HIV and improve sexual and reproductive health;
- to define and refine health sector roles in response to gender-based violence through collaboration with health services and demonstrating the effectiveness of health sector interventions;
- to undertake research to improve the health of women, through a focus on gender and health issues within sexual and reproductive health; and
- to develop research capacity in the area of gender and health research.

Peer-reviewed journal articles

1. Wood K, Lambert H, Jewkes R. 'Injuries are beyond love': young South Africans' understandings of limit and legitimacy in relation to physical violence in their sexual relationships. *Med Anthropol* 2008; 27(1): 43-69.
2. Abrahams N, Martin LJ, Jewkes R, Mathews S, Vetten L, Lombard C. The epidemiology and the pathology of rape homicide in South Africa. *Forensic Sci Int* 2008; 178(2-3): 132-138.
3. Mathews S, Abrahams N, Jewkes R, Martin LJ, Lombard C, Vetten L. Intimate femicide-suicide in South Africa. *Bull WHO* 2008; 86(7): 542-558.
4. Ellsberg M, Jansen HA, Heise L, Watts CH, Garcia-Moreno C, Campbell J, Gillioz L, Jewkes R, Josiah I, Meirik O, Rodrigues LC, Saucedo I, Schei B, Wall S;

WHO Multi-country study on Women's Health and Domestic Violence against women study team. Intimate partner violence and women's physical and mental health in the WHO Multi-country study on Women's Health and Domestic Violence: an observational study. *Lancet* 2008; 371(9619): 1165-1172.

5. Jewkes R, Nduna M, Levin J, Jama N, Dunkle K, Puren A, Duvvury N. Impact of Stepping Stones on HIV, HSV-2 and sexual behaviour in rural South Africa: cluster randomised controlled trial. *Br Med J* 2008; 337: a506.
6. Jewkes R. Building social movements for health. *Lancet* 2008; 371: (9630): 2076.
7. Greig A, Peacock D, Jewkes R, Msimang S. Gender and AIDS: Time to Act. *AIDS* 2008; 22 Suppl 2: S35-43.
8. Campbell JC, Abrahams N, Martin LJ. Partner violence perpetration: health care implications from global data. *CMAJ* 2008; 179(6): 511-512.
9. Matzopoulos R, Myers JE, Bowman B, Mathews S. Interpersonal violence prevention: Prioritising interventions. *SAMJ* 2008; 98(9): 682, 684, 686.
10. Jewkes R. Commentary on: Fassin D, le Marçais F, Lethata T. Life & Times of Magda: A Telling a Story of Violence in South Africa. *Curr Anthropol* 2008; 49(2): 236-237 [Comment].
11. Jewkes R. Building social movements for health. *Lancet* 2008; 371 (9630): 2076.
12. Abrahams N, Mathews S. Services for child sexual abuse lacking. *SAMJ* 2008; 98(7): 494.

Books

1. Jina R, Jewkes R, Christofides N, Loots L, Eds. *Caring for survivors of sexual assault. A training programme for health care providers in South Africa. Participants' manual*. Pretoria: Department of Health, 2008: 244.
2. Jina R, Jewkes R, Christofides N, Loots L, Eds. *Caring for survivors of sexual assault. A training programme for health care providers in South Africa. Facilitators' manual*. Pretoria: Department of Health, 2008.

Book chapters

1. Jewkes R, Dartnall L. Sexual Violence. In: Heggenhougen K, Quah SR, Eds. *International Encyclopaedia of Public Health* (1st ed). San Diego: Academic Press, 2008: 723-731.

Technical reports

1. Vetten L, Jewkes R, Fuller R, Christofides N, Loots L, Dunseith O. *Tracking Justice: The Attrition of Rape Cases Through the Criminal Justice System in Gauteng*.

Johannesburg: Tshwaranang Legal Advocacy Centre, 2008.

2. Abrahams N, Jewkes R, Lombard C, Meel B. *The development and evaluation of an intervention to improve post exposure prophylaxis after a sexual assault incident to prevent HIV Prevention: findings from Cape Town and Mthatha*. An MRC Technical Report to the Department of Health in the Western Cape and Eastern Cape, October 2008.

Policy briefs

1. Wechsberg W, Parry C, Jewkes R. *Drugs, sex and gender-based violence: the intersection of the AIDS epidemic with vulnerable women in South Africa, forging a multilevel collaborative response*. Research & policy brief. RTI & Medical Research Council, 2008.

Training materials

1. Jina R, Jewkes R, Christofides N, Loots L, Eds. *Caring for survivors of sexual assault. A training programme for health care providers in South Africa. Participants' manual*. Pretoria: Department of Health, 2008.
2. Jina R, Jewkes R, Christofides N, Loots L, Eds. *Caring for survivors of sexual assault. A training programme for health care providers in South Africa. Facilitators' manual*. Pretoria: Department of Health, 2008.
3. Jewkes R *et al*. *Sexual assault and rape: a survivor's guide*. Pretoria: Department of Health, 2008.
4. Christofides N, Jewkes R, Jina R. DVD: 'Meeting the survivor's immediate psychological needs'; 'Introducing the 'Survivor information booklet'; 'In vivo (real life) exposure'; 'Imaginal exposure – reliving the memory of the rape'. Medical Research Council, May 2008.

Dissertations and theses

1. Nelisiwe Khuzwayo, Masters in Health Promotion, University of KwaZulu-Natal, supervised by Naeema Abrahams. An in-depth investigation of the factors that determine non-adherence to Post Exposure Prophylaxis (PEP) after sexual assault among a sample of raped women survivors attending a public health clinic in the Eastern Cape, 2008.

MATERNAL AND INFANT HEALTH CARE STRATEGIES RESEARCH UNIT



Director: Prof Bob Pattinson

Mandate:

The research mandate has been to develop health strategies at primary and secondary care levels for mothers and infants by seeking saleable solutions. By seeking is meant performing research, by saleable is meant solutions that are acceptable to all women, health care workers and health administrators, and by solutions is meant health strategies that have been developed to solve the problems identified. The five research foci are:

- antenatal care;
- intrapartum care;
- care of the ill parturient;
- care of the premature infant; and
- nutrition in mother and child.

Peer-reviewed journal articles

1. Sayed AR, Bourne D, Pattinson R, Nixon J, Henderson B. Decline in the prevalence of neural tube defects following folic acid fortification and its cost-benefit in South Africa. *Birth Defects Res A Clin Mol Teratol* 2008; 82(4): 211-216.
2. Pattinson RC, Bergh A-M. Implementing recommendations arising from confidential enquiries into maternal deaths. *Best Pract Res Clin Obstet Gynaecol* 2008; 22(3): 477-487.
3. South Africa Every Death Counts Writing Group, Bradshaw D, Chopra M, Kerber K, Lawn JE, Bamford L, Moodley J, Pattinson R, Patrick M, Stephen C, Velaphi S. Every death counts: use of mortality audit data for decision making to save the lives of mothers, babies, and children in South Africa. *Lancet* 2008; 371(9620): 1294-1304.
4. Bergh AM, van Rooyen E, Pattinson RC. Scaling up kangaroo mother care in South Africa: 'on-site' versus 'off-site' educational facilitation. *Hum Resour Health* 2008; 6: 13.
5. Patrick ME, Stephen CR. Child PIP: Making mortality meaningful by using a structured mortality review process to improve the quality of care that children



receive in the South African health system.

SAJCH 2008; 2(2): 38-42.

6. Campbell H, Duke T, Weber M, English M, Carai S, Tamburlini G; Pediatric Hospital Improvement Group. Global Initiatives for improving hospital care for children: State of the Art and Future Prospects. *Pediatrics* 2008; 121(4): e984-992.
7. Visser MJ, Neufeld S, de Villiers A, Makin JD, Forsyth BWC. To tell or not to tell: South African women's disclosure of HIV status during pregnancy. *AIDS Care* 2008; 20(9): 1138-1145.
8. Matji JN, Wittenberg DF, Makin JD, Jeffrey BS, MacIntyre UE, Forsyth BWC. Psychosocial and economic determinants of infant feeding intent by pregnant HIV-infected women in Tshwane/Pretoria. *SAJCH* 2008; 2(3): 114-118.
9. Lombaard H, Pattinson RC. Underlying medical conditions. *Best Pract Res Clin Obstet Gynaecol* 2008; 22(5): 847-864.
10. Visser MJ, Kershaw T, Makin JD, Forsyth BWC. Development of parallel scales to measure HIV-related stigma. *AIDS Behav* 2008; 12(5): 759-771.
11. Vandormael A, Forsyth B, Kershaw T, Grobbelaar J. The political context of AIDS-related stigma and knowledge in a South African township community. *SAHARA J* 2008; 5(2): 74-82.
12. Makin JD, Forsyth BW, Visser MJ, Sikkema KJ, Neufeld S, Jeffery B. Factors affecting disclosure in South African HIV-positive pregnant women. *AIDS Patient Care STDS* 2008; 22(11): 907-916.
13. Pattinson RC, Bergh AP, Cilliers C, Hugo J. Integrating PMTCT into primary health care: What works? *Transactions* 2008; 52 (2): Jul-Dec.

Technical reports

Bradshaw D, Chopra M, Kerber K, Lawn J, Moodley J, Pattinson RC, Patrick M, Stephen C, Velaphi S. *Every Death Counts: Saving the lives of mothers, babies and children in South Africa*. Save the Children Foundation.

Available online from: www.chip.org.za.

MINERAL METABOLISM RESEARCH UNIT



Director: Prof John Pettifor

Mandate:

The Unit's mandate is to study paediatric and adult bone diseases, which are of particular importance and relevance to the people of South Africa, and the investigation of basic pathophysiological mechanisms of various aspects of bone and mineral metabolism.

The broad objectives of the Unit are:

- to research paediatric and adult metabolic bone diseases of particular relevance to South Africa; and
- to investigate the basic pathophysiological mechanisms of various aspects of bone and mineral homeostasis.

Peer-reviewed journal articles

1. Pedro TM, MacKeown JM, Norris SA. Variety and total number of food items recorded by a true longitudinal group of urban black South African children at 5 interceptions between 1995 and 2003: the Birth-to-Twenty (Bt20) study. *Publ Health Nutr* 2008; 11(6): 616-623.
2. Crowther NJ, Cameron N, Trusler J, Toman M, Norris SA, Gray IP. Influence of catch-up growth on glucose tolerance and beta-cell function in 7-year-old children: results from the Birth-to-Twenty study. *Pediatrics* 2008; 121(6): e1715-22.
3. Oramasionwu GE, Thacher TD, Pam SD, Pettifor JM, Abrams SA. Adaptation of calcium absorption after treatment of nutritional rickets in Nigerian children. *Br J Nutr* 2008; 100(2): 387-392.
4. Craviari T, Pettifor JM, Thacher TD, Meisner C, Arnaud J, Fischer PR and the Rickets Convergence Group. Rickets: an overview and future directions, with special reference to Bangladesh. A summary of the Rickets Convergence Group meeting, Dhaka, 26-27 January 2006. *J Health Pop Nutr* 2008; 26(1): 112-121.
5. Norris SA, Sheppard ZA, Griffiths PL, Cameron N, Pettifor JM. Current socio-economic measures, and not those measured during infancy, affect bone mass in poor urban South African children. *J Bone Min Res* 2008; 23(9): 1409-1416.

6. Pettifor JM. Vitamin D and/or calcium deficiency rickets in infants and children: a global perspective. *Indian J Med Res* 2008; 127(3): 245-249 [Review].
7. Pettifor JM. What is new in hypophosphataemic rickets? *Eur J Pediatr* 2008; 167(5): 493-499.
8. Prentice A, Ceesay M, Nigdikar S, Allen SJ, Pettifor JM. FGF23 is elevated in Gambian children with rickets. *Bone* 2008; 42(4): 788-797.
9. Pettifor JM. Are we achieving the Millennium Development Goals? *S Afr J Clin Nutr* 2008; 21(1): 5-6 [Editorial].
10. Griffiths P, Norris SA, Rousham EK, Cameron N, Pettifor JM. Socio-economic status and body composition outcomes in urban South Africa. *Arch Dis Child* 2008; 93(10): 862-867.
11. Fischer PR, Thacher TD, Pettifor JM. Pediatric vitamin D and calcium nutrition in developing countries. *Rev Endocr Metab Disord* 2008; 9(3): 181-192.
12. Jones LL, Griffiths PL, Adair LS, Norris SA, Richter LM, Cameron N. A comparison of the socio-economic determinants of growth retardation in South African and Filipino infants. *Publ Health Nutr* 2008; 11(12): 1220-1228.
13. Norris SA, Richter LM. Are there short cuts to pubertal assessments? Self-reported and assessed group differences in pubertal development in African adolescents. *J Adolesc Health* 2008; 42(3): 259-265.

Chapters in books

1. Pettifor JM. Chapter 14: Nutritional Rickets and vitamin D deficiency. In: Semba RD, Bloem MW, Eds. *Nutrition and Health in developing countries*, 2nd ed. Totowa: Humana Press, 2008: 435-454. ISBN 978-1-934115-24-4
2. Nelson DA, Pettifor JM, Norris SA. Chapter 26: Race, ethnicity and osteoporosis. In: Marcus R, Feldman D, Nelson D, Rosen C, Eds. *Osteoporosis*, 3rd ed. San Diego: Elsevier, 2008: 667-687. ISBN: 978-0-12-370544-0
3. Saloojee H, Pettifor JM. Chapter 44: Malnutrition. In: Kibel M, Saloojee H, Westwood T, Eds. *Child Health for All*, 4th ed. Cape Town: Oxford University Press, 2008: 370-383. ISBN: 978 0 19 576495 6
4. Pettifor JM, Saloojee H. Chapter 15: Infant and Child Nutrition. In: Kibel M, Saloojee H, Westwood T, Eds. *Child Health for All*, 4th ed. Cape Town: Oxford University Press, 2008: 112-124. ISBN: 978 0 19 576495 6



NUTRITION

NUTRITIONAL INTERVENTION RESEARCH UNIT



Interim Director: Prof Pieter Jooste

Mandate:

The Unit's mandate is to improve nutritional imbalances in vulnerable groups in the South African population through relevant nutrition research, and it operates within the framework of the MRC Corporate Strategic Plan and contributes to:

- nutrition knowledge and innovation through peer-reviewed publications;
- policy formulation and implementation through participation in advisory panels;
- capacity development through courses, presentations and involvement in postgraduate studies;
- technology transfer through development of nutrition software; and
- income generation through a variety of approaches.

NIRU focuses on national nutrition research priorities in which it has a competitive advantage.

Peer-reviewed journal articles

1. Faber M, Laubscher R. Seasonal availability and dietary intake of beta-carotene-rich vegetables and fruit of 2-year-old to 5-year-old children in a rural South African setting growing these crops at household level. *Int J Food Sci Nutr* 2008; 59(1): 46-60.
2. Jeebhay MF, Robins TG, Miller ME, Bateman E, Smuts M, Baatjies R, Lopata AL. Occupational allergy and asthma among salt water fish processing workers. *Am J Ind Med* 2008; 51(12): 899-910.
3. Jooste PL, Zimmermann MB. Progress towards eliminating iodine deficiency in South Africa. *S Afr J Clin Nutr* 2008; 21(1): 8-14.
4. Kwitshana ZL, Tsoka JM, Mabaso MLH. Intestinal parasitic infections in adult patients in KwaZulu-Natal. *S Afr Med J* 2008; 98(9): 709-711.
5. Labadarios D, Swart R, Maunder EMW, Kruger HS, Gericke GJ, Kuzwayo PMN, Ntse PR, Steyn NP, Schloss I, Dhansay MA, Jooste PL, Dannhauser A, Nel JH,

Molefe D, Kotze TVW. Executive summary of the National Food Consumption Survey Fortification Baseline (NFCS-FB-1), South Africa, 2005.

S Afr J Clin Nutr 2008; 21 (Suppl 2): 245-300.

6. Laurie SM, Faber M. Integrated community-based growth monitoring and vegetable gardens focusing on crops rich in β -carotene: Project evaluation in a rural community in the Eastern Cape, South Africa. *J Sci Food Agric* 2008; 88(12): 2093-2101.
7. Low J, Van Jaarsveld PJ. The potential contribution of bread buns fortified with beta-carotene rich sweet potato in Central Mozambique. *Food Nutr Bull* 2008; 29(2): 98-107.
8. Smuts CM, Faber M, Schoeman SE, Laubscher JA, Oelofse A, Benade AJS, Dhansay MA. Socio-demographic profiles and anthropometric status of 0 to 71-month-old children and their caregivers in rural districts of the Eastern Cape and KwaZulu-Natal provinces of South Africa. *S Afr J Clin Nutr* 2008; 21(3): 117-124.
9. Steyn NP, Wolmarans P, Nel JH, Bourne LT. National fortification of staple foods can make a significant contribution to micronutrient intake of South African adults. *Publ Health Nutr* 2008; 11(3): 307-313.
10. Van Stuijvenberg ME, Smuts CM, Lombard CJ, Dhansay MA. Fortifying brown bread with sodium iron EDTA, ferrous fumarate, or electrolytic iron does not affect iron status in South African schoolchildren. *J Nutr* 2008; 138(4): 782-786.
11. Wolmarans P, Danster NA. Characteristics of the South African Food Composition Database, an essential tool for the nutrition fraternity in the country: Part 1. *S Afr J Clin Nutr* 2008; 21(4): 308-313.
12. Zimmermann MB, Jooste PL, Pandav C. The iodine deficiency disorders. *Lancet* 2008; 372(9645): 1251-1262.

Book chapters

1. Faber M, Maunder E. Equity and access to nutrition and public health services. In: Steyn NP, Temple NJ, Eds. *Community Nutrition Textbook for South Africa: A Rights-based Approach*. Cape Town: Medical Research Council, 2008: 251-286.
2. Steyn NP, Blaauw R, Lombard T, Wolmarans P. Chapter 19: Nutritional management of chronic diseases. In: Steyn NP, Temple NJ, Eds. *Community Nutrition Textbook for South Africa: A Rights-based Approach*. Cape Town: Medical Research Council, 2008: 695-750.
3. Wolmarans P, Wentzel-Viljoen E. The South African Food Composition Database and tools for collecting and analysing dietary intake data. In: Steyn NP, Temple N, Eds. *Community Nutrition Textbook for South Africa: A*

Rights-based Approach. Cape Town: Medical Research Council, 2008: 795-824.

Technical research reports

1. Danster NA, Wolmarans P, Buitendag C, De Jager A. *Energy and nutrient composition of South African wheat, wheat flour and bread*. Technical Report, March 2008.
2. Faber M, Laurie S, Van Jaarsveld P. *Nutrient content and consumer acceptability for different cultivars of orange-fleshed sweet potato*. Research Report to October 2008. Project No. 202, South African Sugar Association, October 2008.
3. Faber M, Laurie S, Van Jaarsveld P. *Proceedings: Orange-fleshed Sweet potato Symposium*, March 2008.
4. Faber M, Laubscher R. *Availability of, access to, and consumption of fruits and vegetables in rural households in KwaZulu-Natal*. Report to the South African Sugar Association, March 2008.
5. Jooste PL, Strydom EE, Yusufali R. *Analytical support in the titration and potentiometric methods to salt producers in South Africa to optimize the analysis of iodine in salt*. MRC Technical Report, August 2008.
6. Schoeman SE, Faber M, Smuts CM, Adams VJ, Lombard C, Ford-Ngomane N, Dhansay MA. *An integrated nutrition programme model implemented by Health Systems Trust in the Eastern Cape and KwaZulu-Natal. Follow-up survey 2007*. Report to Health Systems Trust, March 2008.
7. Schoeman SE, Adams VJ, Faber M, Smuts CM, Laubscher JA, Ford-Ngomane N, Dhansay MA. *Nutritional and health status of children under five and their caregivers in rural communities of the Eastern Cape and KwaZulu Natal*. MRC Technical Report, November 2008.
8. Wenhold F, Faber M. *Nutritional status of South Africans: Links to Agriculture and Water*. Pretoria: Water Research Commission, 2008.
9. Wenhold F, Faber M, Laurie S. *School-based vitamin A gardening as a collaborative capacity development project*. Pretoria: Water Research Commission, 2008.
10. WHO Report: *Salt as a vehicle for fortification*. Report of a WHO Expert Consultation to reconcile WHO policies on salt restriction and salt iodisation, Luxembourg, 21-22 March 2007. Geneva: WHO, 2008. [PLJ participated in the consultation, chaired one of the groups and reviewed the draft report.]



ENVIRONMENT AND HEALTH

ENVIRONMENT AND HEALTH RESEARCH UNIT



Director: Prof Angie Mathee

Mandate:

The mandate of the MRC Environment & Health Research Unit (E&HRU) is "to conduct population-based research on environmental risks to health, with special emphasis on those living in poverty." The E&HRU is a multi-disciplinary research team with expertise in children's environmental health, environmental epidemiology, psychology, quality of life, nutrition, women's health, environmental medicine, chemistry, social capital and local level responses to HIV/AIDS. The E&HRU is the proud host of the World Health Organisation Collaborating Centre for Urban Health (WHOCCUH) which brings together expertise from four leading academic, service provision and research institutions to address specific urban health policy, programme and project needs.

Peer-reviewed journal articles

1. Steyn NP, Wolmarans P, Nel JH, Bourne LT. National fortification of staple foods can make a significant contribution to micronutrient intake of South African adults.
Publ Health Nutr 2008; 11(3): 307-313.
2. Westaway MS, Rheeder P, Guloba G. Rheumatoid arthritis functional disability in a public health care clinic.
S Afr Med J 2008; 98(9): 706 [Letter].

BRAIN AND BEHAVIOUR

ANXIETY AND STRESS DISORDERS RESEARCH UNIT



Co-Directors: Prof Dan Stein



Prof Soraya Seedat

Mandate:

The MRC Unit on Anxiety and Stress Disorders was founded in 1997 with the mandate of:

- establishing a unit focusing on anxiety disorders, including post-traumatic stress disorder;
- fostering a multi-disciplinary biopsychosocial approach to anxiety disorders;
- promoting increased awareness of the anxiety disorders in the community; and
- ensuring capacity building of clinical and research skills in students and staff.

Peer-reviewed journal articles

1. Williams DR, Herman A, Stein DJ, Heeringa SG, Jackson PB, Moomal H, Kessler RC. Twelve-month mental disorders in South Africa: prevalence, service use and demographic correlates in the population-based South African Stress and Health Study. *Psychol Med* 2008; 38(2): 211-220.
2. Gureje O, Von Korff M, Kola L, Demyttenaere K, He Y, Posada-Villa J, Lepine JP, Angermeyer MC, Levinson D, de Girolamo G, Iwata N, Karam A, Guimaraes Borges GL, de Graaf R, Browne MO, Stein DJ, Haro JM, Bromet EJ, Kessler RC, Alonso J. The relation between multiple pains and mental disorders: results from the World Mental Health Surveys. *Pain* 2008; 135(1-2): 82-91.
3. Savitz JB, van der Merwe L, Newman TK, Solms M, Stein DJ, Ramesar RS. The relationship between childhood abuse and dissociation: Is it influenced by catechol-O-methyltransferase (COMT) activity? *Int J Neuropsychopharmacol* 2008; 11(2): 149-161.
4. Carey PD, Walker JL, Rossouw W, Seedat S, Stein DJ. Risk indicators and psychopathology in traumatized children and adolescents with a history of sexual abuse. *Eur Child Adolesc Psychiatry* 2008; 17(2): 93-98.
5. Korff S, Stein DJ, Harvey BH. Stereotypic behaviour in the deer mouse: Pharmacological validation and relevance for obsessive-compulsive disorder. *Progr Neuropsychopharmacol Biol Psychiatr* 2008; 32(2): 348-355.
6. Matsunaga H, Maebayashi K, Hayashida K, Okino K, Matsui T, Iketani T, Kiriike N, Stein D. Symptom structure in Japanese patients with obsessive-compulsive disorder. *Am J Psychiatry* 2008; 165(2): 251-253.
7. Muller JE, Wentzel I, Koen L, Niehaus DJ, Seedat S, Stein DJ. Escitalopram in the treatment of multisomatiform disorder: a double-blind, placebo-controlled trial. *Int Clin Psychopharmacol* 2008; 23(1): 43-48.
8. Tolin DF, Diefenbach GJ, Flessner CA, Franklin ME, Keuthen NJ, Moore P, Piacentini J, Stein DJ, Woods DW; Trichotillomania Learning Center Scientific Advisory Board. The trichotillomania scale for children: Development and validation. *Child Psychiatry Hum Dev* 2008; 39(3): 331-349.
9. Stein DJ. Panic disorder: The psychobiology of external threat and interoceptive distress. *CNS Spectr* 2008; 13(1): 26-30.
10. Ganasen KA, Parker S, Hugo CJ, Stein DJ, Emsley RA, Seedat S. Mental health literacy: focus on developing countries. *Afr J Psychiatry* 2008; 11(1): 23-28.
11. Tandon R, Belmaker RH, Gattaz WF, Lopez-Ibor JJ Jr, Okasha A, Singh B, Stein DJ, Olie JP, Fleischhacker WW, Moeller HJ; Section of Pharmacopsychiatry, World Psychiatric Association. World Psychiatric Association Pharmacopsychiatry Section statement on comparative effectiveness of antipsychotics in the treatment of schizophrenia. *Schizophr Res* 2008; 100(1-3): 20-38.
12. Stein DJ, Seedat S, Herman A, Moomal H, Heeringa SG, Kessler RC, Williams DR. Lifetime prevalence of psychiatric disorders in South Africa. *Br J Psychiatry* 2008; 192(2): 112-117.
13. Myer L, Smit J, Roux LL, Parker S, Stein DJ, Seedat S. Common mental disorders among HIV-infected individuals in South Africa: prevalence, predictors, and validation of brief psychiatric rating scales. *AIDS Patient Care STDS* 2008; 22(2): 147-158.

14. Ipser JC, Kariuki CM, Stein DJ. Pharmacotherapy for social anxiety disorder: a systematic review. *Expert Rev Neurother* 2008; 8(2): 235-257 [Review].
15. Myer L, Stein DJ, Grimsrud A, Seedat S, Williams DR. Social determinants of psychological distress in a nationally-representative sample of South African adults. *Soc Sci Med* 2008; 66(8): 1828-1840.
16. Thornton HB, Nel D, Thornton D, van Honk J, Baker GA, Stein DJ. The neuropsychiatry and neuropsychology of lipid proteinosis. *J Neuropsychiatry Clin Neurosci* 2008; 20(1): 86-92.
17. Uys JD, Hattigh SM, Stein DJ, Daniels WM. Large scale hippocampal distress may explain the behavioral consequences of repetitive traumatic experiences – a proteomic approach. *Neurochem Res* 2008; 33(9): 1724-1734.
18. Stein DJ. Emotional regulation: implications for the psychobiology of psychotherapy. *CNS Spectr* 2008; 13(3): 195-198.
19. Marais L, van Rensburg SJ, van Zyl MJ, Stein DJ, Daniels WM. Maternal separation of rat pups increases the risk of developing depressive-like behaviour after subsequent chronic stress by altering corticosterone and neurotrophin levels in the hippocampus. *Neurosci Res* 2008; 61(1): 106-112.
20. Stein DJ, Baldwin DS, Baldinetti F, Mandel F. Efficacy of pregabalin in depressive symptoms associated with generalized anxiety disorder: a pooled analysis of 6 studies. *Eur Neuropsychopharmacol* 2008; 18(6): 422-430.
21. Stein MB, Stein DJ. Social anxiety disorder. *Lancet* 2008; 371 (9618): 1115-1125 [Review].
22. Joe S, Stein DJ, Seedat S, Herman A, Williams DR. Prevalence and correlates of non-fatal suicidal behaviour among South Africans. *Br J Psychiatry* 2008; 192(4): 310-311.
23. Stein DJ. Is disorder X in category or spectrum Y? General considerations and application to the relationship between obsessive-compulsive disorder and anxiety disorders. *Depress Anxiety* 2008; 25(4): 330-335.
24. Stein DJ, Seedat S, Kaminer D, Moomal H, Herman A, Sonnega J, Williams DR. The impact of the Truth and Reconciliation Commission on psychological distress and forgiveness in South Africa. *Soc Psychiatry Psychiatr Epidemiol* 2008; 43(6): 462-468.
25. Brand L, Groenewald I, Stein DJ, Wegener G, Harvey BH. Stress and re-stress increases conditioned taste aversion learning in rats: possible frontal cortical and hippocampal muscarinic receptor involvement. *Eur J Pharmacol* 2008; 586 (1-3): 205-211.
26. Savitz JB, van der Merwe L, Stein DJ, Solms M, Ramesar RS. Neuropsychological task performance in bipolar spectrum illness: genetics, alcohol abuse, medication and childhood trauma. *Bipolar Disord* 2008; 10(4): 479-494.
27. Joe S, Stein DJ, Seedat S, Herman A, Williams DR. Non-fatal suicidal behavior among South Africans: results from the South Africa Stress and Health Study. *Soc Psychiatry Psychiatr Epidemiol* 2008; 43(6): 454-461.
28. Hahn B, Wolkenberg FA, Ross TJ, Myers CS, Heishman SJ, Stein DJ, Kurup PK, Stein EA. Divided versus selective attention: Evidence for common processing mechanisms. *Brain Res* 2008; 1215: 137-146.
29. Warwick JM, Carey P, Jordaen GP, Dupont P, Stein DJ. Resting brain perfusion in social anxiety disorder: A voxel-wise whole brain comparison with healthy control subjects. *Prog Neuropsychopharmacol Biol Psychiatry* 2008; 32(5): 1251-1256.
30. Williams DR, Gonzalez HM, Williams S, Mohammed SA, Moomal H, Stein DJ. Perceived discrimination, race and health in South Africa. *Soc Sci Med* 2008; 67(3): 441-452.
31. Stein DJ, Muller J. Cognitive-affective neuroscience of somatization disorder and functional somatic syndromes: reconceptualizing the triad of depression-anxiety-somatic symptoms. *CNS Spectr* 2008; 13(5): 379-384.
32. Stein DJ, Carey PD, Lochner C, Seedat S, Fineberg N, Andersen EW. Escitalopram in obsessive-compulsive disorder: response of symptom dimensions to pharmacotherapy. *CNS Spectr* 2008; 13(6): 492-498.
33. Degenhardt L, Chiu WT, Sampson N, Kessler RC, Anthony JC, Angermeyer M, Bruffaerts R, de Girolamo G, Gureje O, Huang Y, Karam A, Kostyuchenko S, Lepine JP, Medina Mora ME, Neumarck Y, Ormel J, Pinto-Meza, A, Posada-Villa J, Stein DJ, Takeshima, T, Wells, JE. Toward a global view of alcohol, tobacco, cannabis, and cocaine use: Findings from the WHO World Mental Health Surveys. *PLoS Med* 2008; 5(7): e141.
34. Pienaar IS, Kellaway LA, Russell VA, Smith AD, Stein DJ, Zigmund MJ, Daniels WM. Maternal separation exaggerates the toxic effects of 6-hydroxydopamine in rats: Implications for neurodegenerative disorders. *Stress* 2008; 11(6): 448-456.
35. Stein DJ. Depression, anhedonia, and psychomotor symptoms: the role of dopaminergic neurocircuitry. *CNS Spectr* 2008; 13(7): 561-565.
36. Seedat S, Haskis A, Stein DJ. Benefits of consumer psychoeducation: A pilot program in South Africa.

- Int J Psychiatry Med* 2008; 38(1): 31-42.
37. Stein DJ. Classification of anxiety disorders: Dimensional assessments, intermediate phenotypes, and psychobiological bases. *Curr Psychiatry Rep* 2008; 10(4): 287-289.
 38. Seedat S, Stein DJ, Herman A, Kessler R, Sonnegga J, Heeringa S, Williams S, Williams D. Twelve-month treatment of psychiatric disorders in the South African Stress and Health Study (World Mental Health Survey Initiative). *Soc Psychiatry Psychiatr Epidemiol* 2008; 43(11): 889-897.
 39. Lund C, Stein DJ, Corrigan J, Bradshaw D, Schneider M, Flisher AJ. Mental health is integral to public health: A call to scale up evidence-based services and develop mental health research. *S Afr Med J* 2008; 98(6): 444, 446 [Editorial].
 40. Muller JE, Wentzel I, Nel DJ, Stein DJ. Depression and anxiety in multisomatoform disorder: Prevalence and clinical predictors in primary care. *S Afr Med J* 2008; 98(6): 473-476.
 41. Davidson J, Baldwin DS, Stein DJ, Pedersen R, Ahmed S, Musgnung J, Benattia I, Rothbaum BO. Effects of venlafaxine extended release on resilience in posttraumatic stress disorder: An item analysis of the Connor-Davidson Resilience Scale. *Int Clin Psychopharmacol* 2008; 23(5): 299-303.
 42. Möller HJ, Baldwin DS, Goodwin G, Kasper S, Okasha A, Stein DJ, Tandon R, Versiani M; WPA Section on Pharmacopsychiatry. Do SSRIs or antidepressants in general increase suicidality? WPA Section on Pharmacopsychiatry: Consensus statement. *Eur Arch Psychiatry Clin Neurosci* 2008; 258, Suppl 3: 3-23.
 43. Ruscio AM, Stein DJ, Chiu WT, Kessler RC. The epidemiology of obsessive-compulsive disorder in the National Comorbidity Survey Replication. *Mol Psychiatry* 2008; Aug 26 [Epub ahead of print].
 44. Daniels WM, Uys J, van Vuuren P, Stein DJ. The development of behavioral and endocrine abnormalities in rats after repeated exposure to direct and indirect stress. *Neuropsychiatr Dis Treat* 2008; 4(2): 451-464.
 45. Suliman S, Stein DJ, Williams DR, Seedat S. DSM-IV personality disorders and their axis I correlates in the South African population. *Psychopathology* 2008; 41(6): 356-364.
 46. Kaiminer D, Grimsrud A, Myer L, Stein DJ, Williams DR. Risk for post-traumatic stress disorder associated with different forms of interpersonal violence in South Africa. *Soc Sci Med* 2008; 67(10): 1589-1595.
 47. Gupta J, Silverman JG, Hemenway D, Acvedo-Garcia D, Stein DJ, Williams DR. Physical violence against intimate partners and related exposures to violence among South African men. *CMAJ* 2008; 179(6): 535-541.
 48. Stein DJ, Ahokas AA, de Bodinat C. Efficacy of agomelatine in generalized anxiety disorder: A randomized, double-blind, placebo-controlled study. *J Clin Psychopharmacol* 2008; 28(5): 561-566.
 49. Davidson J, Zhang W, Connor K, Ji J, Jobson K, Lecrubier Y, McFarlane A, Newport D, Nutt D, Osseur D, Stein DJ, Stowe Z, Tajima O, Versiani M. A psychopharmacological treatment algorithm for generalised anxiety disorder (GAD). *J Psychopharmacol* 2008; Oct 2 [Epub ahead of print].
 50. Stein DJ, Ives-Deliperi V, Thomas KG. Psychobiology of mindfulness. *CNS Spectr* 2008; 13(9): 752-756.
 51. Stein DJ. Psychobiology of anxiety disorders and obsessive-compulsive spectrum disorders. *CNS Spectr* 2008; 13 (Suppl 14): 23-28 [Review].
 52. Franklin ME, Flessner CA, Woods DW, Keuthen NJ, Piacentini JC, Moore P, Stein DJ, Cohen SB, Wilson MA; Trichotillomania Learning Center-Scientific Advisory Board. The child and adolescent trichotillomania impact project: descriptive psychopathology, comorbidity, functional impairment, and treatment utilization. *J Dev Behav Pediatr* 2008; 29(6): 493-500.
 53. Stein DJ. Classifying hypersexual disorders: compulsive, impulsive, and addictive models. *Psychiatr Clin North Am* 2008; 31(4): 587-591.
 54. Bandelow B, Zohar J, Hollander E, Kasper S, Möller HJ; WFSBP Task Force on Treatment Guidelines for Anxiety, Obsessive-Compulsive and Post-Traumatic Stress Disorders, Zohar J, Hollander E, Kasper S, Möller HJ, Bandelow B, Allgulander C, Ayuso-Gutierrez J, Baldwin DS, Buenvicinus R, Cassano G, Fineberg N, Gabriels L, Hindmarch I, Kaiya H, Klein DF, Lader M, Lecrubier Y, Lépine JP, Liebowitz MR, Lopez-Ibor JJ, Marazziti D, Miguel EC, Oh KS, Preter M, Rupprecht R, Sato M, Starcevic V, Stein DJ, van Ameringen M, Vega J. World Federation of Societies of Biological Psychiatry (WFSBP) guidelines for the pharmacological treatment of anxiety, obsessive-compulsive and post-traumatic stress disorders - first revision. *World J Biol Psychiatry* 2008; 9(4): 248-312.

Books

1. Stein DJ. *The Philosophy of Psychopharmacology: Happy Pills, Smart Pills, Pep Pills*. Cambridge: Cambridge University Press, 2008.

Book chapters

1. Stein DJ, Lochner C. Chapter 12: The empirical basis of



- the obsessive-compulsive spectrum. In: Abramowitz J, McKay D, Taylor S, Eds. *Clinical Handbook of Obsessive-Compulsive Disorder and Related Problems*. Baltimore, MD: John Hopkins University Press, 2008: 177-187.
2. Stein DJ, Rauch SR. Chapter 28: Neuropsychiatric aspects of anxiety disorders. In: Yudofsky SC, Hales RE, Eds. *The American Psychiatric Publishing Textbook of Neuropsychiatry and Behavioral Neurosciences*. 5th ed. Washington, DC: American Psychiatric Publishing, 2008: 1025-1044.
 3. Joska JA, Stein DJ. Mood Disorders. In: Hales RE, Yudofsky SC, Gabbard GO, Eds. *The American Psychiatric Publishing Textbook of Psychiatry*, 5th ed. Washington, DC: American Psychiatric Publishing, 2008.
 4. Herman AA, Williams D, Stein DJ, Seedat S, Heeringa SG, Moomal H. The South African Stress and Health Study (SASH): A Foundation for Improving Mental Health Care in South Africa. In: Kessler RC, Ustun TB, Eds. *The WHO World Mental Health Surveys: Global Perspectives on the Epidemiology of Mental Disorders*. Cambridge, UK: Cambridge University Press, 2008.
 5. Joel D, Stein DJ, Schreiber R. Animal models of obsessive-compulsive disorder: From bench to bedside via endophenotypes and biomarkers. In: McArthur RA, Borsini F, Eds. *Animal and Translational Models for CNS Drug Discovery*, Volume 1: Psychiatric Disorders. Amsterdam: Elsevier, 2008.

MEDICAL IMAGING RESEARCH UNIT



Director: Prof Christopher Vaughan

Mandate:

The mandate of the institute is to conduct world-class research in medical imaging that specifically addresses the health care needs of Africa. The institute has a multidisciplinary focus. The research focuses on the role of medical imaging in health care problems such as trauma, cancer, tuberculosis, acquired immune deficiency syndrome, neuromuscular disorders, and alcohol abuse, all of which are highly relevant to Africa. Projects utilizing medical imaging include:

- low-dose digital X-rays for trauma and TB screening;
- a navigator for neurosurgery;
- teleradiology;
- functional brain imaging;
- measurement of cancer cell topography;
- characterising neuromuscular function;
- positioning patients for proton therapy; and
- screening of children for foetal alcohol syndrome.

Peer-reviewed journal articles

1. Schutter DJ, de Weijer AD, Meuwese JD, Morgan B, van Honk J. Interrelations between motivational stance, cortical excitability, and the frontal electroencephalogram asymmetry of emotion: a transcranial magnetic stimulation study. *Hum Brain Mapp* 2008; 29(5): 574-580.
2. Benatar SR, Vaughan CL. Global and local forces shaping the research agenda and the governance of research ethics. *S Afr J Sci* 2008; 104(11/12): 439-442.
3. Douglas TS, Sanders V, Pitcher R, van As AB. Early detection of fractures with low-dose digital x-ray images in a pediatric trauma unit. *J Trauma* 2008; 65(1): E4-7.
4. Halberstadt W, Douglas TS. Fuzzy clustering to detect tuberculous meningitis-associated hyperdensity in CT images. *Comput Biol Med* 2008; 38(2): 165-170.
5. Irving BJ, Maree GJ, Hering E, Douglas TS. Radiation dose from a linear slit scanning x-ray machine with full body imaging capabilities.

- Radiat Prot Dosimetry* 2008; 130(4): 482-489.
6. Langerak NG, Lamberts RP, Fieggen AG, Peter JC, van der Merwe L, Peacock WJ, Vaughan CL. A prospective gait analysis study in patients with diplegic cerebral palsy 20 years after selective dorsal rhizotomy. *J Neurosurg Pediatrics* 2008; 1(3): 180-186.
 7. Pitcher RD, van As AB, Sanders V, Douglas TS, Wieselthaler N, Vlok A, Paverd S, Kilborn T, Rode H, Potgieter H, Beningfield S. A pilot study evaluating the "Statscan" digital X-ray machine in paediatric polytrauma. *Emerg Radiol* 2008; 15(1): 35-42. Epub 13 Oct 2007.
 8. Spottiswoode BS, Zhong X, Lorenz CH, Mayosi BM, Meintjes EM, Epstein FH. 3D tissue tracking with slice followed cine DENSE MRI. *J Magn Reson Imaging* 2008; 27(5): 1019-1027.
 9. Spottiswoode BS, Russell JB, Moosa S, Meintjes EM, Epstein FH, Mayosi BM. Abnormal diastolic and systolic septal motion following pericardiectomy demonstrated by cine DENSE MRI. *Cardiovasc J Afr* 2008; 19(4): 208-209.
 10. Sharhidd Taliep M, St Clair Gibson A, Gray J, van der Merwe L, Vaughan CL, Noakes TD, Kellaway LA, John LR. Event-related potentials, reaction time, and response selection of skilled and less-skilled cricket batsmen. *Perception* 2008; 37(1): 96-105.
 11. van Niekerk SM, Louw O, Vaughan CL, Grimmer-Somers K, Schreve K. Photographic measurement of upper-body sitting posture of high school students: A reliability and validity study. *BMC Musculoskelet Disord* 2008; 9: 113.
 12. Vaughan CL. Alternatives to the publication subsidy for research funding. *S Afr J Sci* 2008; 104(3): 91-96.
 13. Vaughan CL, Blaszczyk MB. Dynamic similarity predicts gait parameters for *Homo floresiensis* and the *Laetoli hominins*. *Am J Hum Biol* 2008; 20(3): 312-316.
 14. Zhong X, Epstein FH, Spottiswoode BS, Helm A, Blemker SS. Imaging two-dimensional displacements and strains in skeletal muscle during joint motion by cine DENSE MR. *J Biomech* 2008; 41(3): 532-540.
 15. Spottiswoode BS, Carey PD. Advancing neuroimaging research in South Africa. *SAJR* 2008; 12(4): 82 [Editorial].
 16. Vaughan CL, Langerak NG, Lamberts RP, Fieggen AG, Peter JC, van der Merwe L, Peacock WJ. Selective dorsal rhizotomy and the challenge of monitoring its long-term sequelae: response. *J Neurosurg Pediatrics* 2008; 1(3): 178-179 [Response].

Book

1. Vaughan CL. *Imagining the Elephant: A Biography of Allan MacLeod Cormack*. Cape Town: Juta, 2008. ISBN 978-1-86094-988-3.

Patents

1. Odéen H, Spottiswoode BS. Fluid flow assessment. SA provisional patent 2008/08345, filed September 2008.
2. Spottiswoode BS, Epstein FH, Meintjes EM. Motion-guided segmentation for cine DENSE images. United States Patent 20080015428, filed January 2008.



SOUTH AFRICAN TRADITIONAL MEDICINES

MRC/UCT DRUG DISCOVERY AND DEVELOPMENT RESEARCH UNIT



Director: Prof Kelly Chibale

Mandate:

This group comprises both UCT's as well as UWC's Departments of Pharmacology and is mandated to:

- establish a scientific infrastructure for traditional medicinal practice and to become an international reference centre for this purpose;
- develop the infrastructural and operational systems for new drug development, with special reference to the discovery and pre-clinical development of novel anti-malarials, anti-tuberculosis agents and anti-viral agents;
- attract young South African scientists, and scientists from elsewhere on the African continent, and thereby make a concerted effort at transformation; and
- develop and to make available a comprehensive informational database addressing chemical, botanical, pharmacological, immunological and toxicological information regarding South African flora relevant to traditional medicinal use.

Peer-reviewed journal articles

1. Kumar V, Chipeleme A, Chibale K. Effect of varying the anionic component of a copper(I) catalyst on homologation of arylacetylenes to allenenes by the Mannich Reaction. *European J Org Chem* 2008; 1: 43-46.
2. Stevens AT, Bull JR, Chibale K. Studies in iridoid synthesis. Chemoselective transformations of cis-1,2,4,6-tetrahydrophthalic anhydride. *Org Biomol Chem* 2008; 6(3): 586-595.
3. Mahajan A, Kumar V, Mansour NR, Bickle O, Chibale K. Meclonazepam analogues as potential new antihelmintic agents. *Bioorg Med Chem Lett* 2008; 18(7): 2333-2336.
4. Blackie MA, Chibale K. Metallocene antimalarials: the continuing quest. *Met Based Drugs* 2008; 2008: 495123.
5. Blackie MAL, Saravanamuthu A, Fairlamb AH, Chibale K. Inhibition of trypanothione reductase and glutathione reductase by ferrocenic 4-aminoquinoline ureas. *ARKIVOC* 2008; 6: 52-60.
6. October N, Watermeyer ND, Yardley V, Egan TJ, Ncokazi K, Chibale K. Reversed chloroquinones based on the 3,4-dihydropyrimidin-2(1H)-one scaffold: synthesis and evaluation for antimalarial, beta-haematin inhibition, and cytotoxic activity. *Chem Med Chem* 2008; 3(11): 1649-1653.
7. Musonda CC, Yardley V, de Souza RC, Ncokazi K, Egan TJ, Chibale K. Antiplasmodial, beta-haematin inhibition, antitrypanosomal and cytotoxic activity *in vitro* of novel 4-aminoquinoline 2-imidazolines. *Org Biomol Chem* 2008; 6(23): 4446-4451.
8. Orrell C, Little F, Smith P, Folb P, Taylor W, Olliaro P, Barnes KI. Pharmacokinetics and tolerability of artesunate and amodiaquine alone and in combination in healthy volunteers. *Eur J Clin Pharmacol* 2008; 64(7): 683-690.
9. Wilkins JJ, Savic RM, Karlsson MO, Langdon G, McIlleron H, Pillai G, Smith PJ, Simonsson US. Population pharmacokinetics of rifampin in pulmonary tuberculosis patients, including a semimechanistic model to describe variable absorption. *Antimicrob Agents Chemother* 2008; 52(6): 2138-2148.
10. Chi BH, Chintu N, Cantrell RA, Kankasa C, Kruse G, Mbewe F, Sinkala M, Smith PJ, Stringer EM, Stringer JS. Addition of single-dose tenofovir and emtricitabine to intrapartum nevirapine to reduce perinatal HIV transmission. *J Acquir Immune Defic Syndr* 2008; 48(2): 220-223.
11. Ren Y, Nuttall JJ, Egbers C, Eley BS, Meyers TM, Smith PJ, Maartens G, McIlleron HM. Effect of rifampicin on lopinavir pharmacokinetics in HIV-infected children with tuberculosis. *J Acquir Immune Defic Syndr* 2008; 47(5): 566-569.
12. Saravanakumar DEM, Folb, PI, Campbell BW, Smith P. Antimycobacterial activity of the red alga *Polysiphonia vigata*. *Pharmaceutical Biology* 2008; 46(4): 254-260.
13. Cohen K, van Cutsem G, Boule A, McIlleron H, Goemaere E, Smith PJ, Maartens G. Effect of rifampicin-based antitubercular therapy on nevirapine plasma concentrations in South African adults with HIV-associated tuberculosis. *J Antimicrob Chemother* 2008; 61(2): 389-393.
14. Pillay P, Maharaj VJ, Smith PJ. Investigating South African plants as a source of new antimalarial drugs. *J Ethnopharmacol* 2008; 119(3): 438-454.

Dissertations and theses

1. Okalebo FA, PhD. The antiplasmodial, toxicity and pharmacokinetic properties of synthetic derivatives of the natural product curcumin.
2. Saravanakumar D, PhD. Antimycobacterial activity of the red algae, *Plocamium Corallorhiza*, *Polysiphonia virgata* and *Gelidium pristoides*, and the isolation of bioactive compounds.
3. Wiesner L, PhD. Preclinical development of 11-O-acetyl Hydnocarpin and its derivatives as potential antimalarial drugs.
4. Lategan C, PhD. The investigation of *Siphonochilus aethiopicus* and aloe ferox for antiplasmodial activity.
5. Sekhoacha M, PhD. Investigation of antimalarial activity of five South African medicinal plants and chemical identification of their active constituents.
6. Gessner RK, PhD. Synthesis and structure-activity relationship studies of novel anti-infectives for cross screening in tuberculosis and parasitic disease models.
7. Gebregziabher MB, M.Sc. Tatarol as a privileged natural product scaffold for antimalarial drug discovery.
8. Krein Z, M.Sc. Utilisation of efficient reactions to combine moieties exhibiting biological activity to produce novel anti-infectives against HIV and malaria.
9. Kambafwile HK jun, M.Sc. Synthesis and biological evaluation of c-domain selective ACE inhibitors as potential novel antihypertension agents.
10. Paquet T, M.Sc. The design and synthesis of potential c-domain selective angiotensin-converting enzyme inhibitors.
11. Watermeyer ND, M.Sc. Bioactive chloroquine-based ligands and their gold complexes as potential antimalarial agents.



| Title Abbreviation | Full journal title |
|---|--|
| Acta Paediatr | Acta Paediatrica |
| Acta Trop | Acta Tropica |
| Afr Entomol | African Entomology |
| African Journal Aids Research | African Journal Aids Research |
| African Safety Promotion: A Journal of Injury and Violence Prevention | African Safety Promotion: A Journal of Injury and Violence Prevention |
| Agenda | Agenda |
| AIDS | AIDS |
| AIDS Behav | AIDS and Behavior |
| AIDS Care | AIDS Care |
| AIDS Res Hum Retroviruses | AIDS Research and Human Retroviruses |
| AIDS Res Ther | AIDS Research and Therapy |
| Am J Clin Nutr | American Journal of Clinical Nutrition |
| Am J Hum Biol | American Journal of Human Biology |
| Am J Hypertens | American Journal of Hypertension |
| Am J Med Genet B Neuropsychiatr Genet | American Journal of Medical Genetics. Part B, Neuropsychiatric Genetics |
| Am J Physiol Endocrinol Metab | American Journal of Physiology, Endocrinology and Metabolism |
| Am J Physiol Regul Integr Comp Physiol | American Journal of Physiology. Regulatory, Integrative and Comparative Physiology |
| Am J Physiol Heart Circ Physiol | American Journal of Physiology-Heart and Circulatory Physiology |
| Am J Prev Med | American Journal of Preventive Medicine |
| Am J Public Health | American Journal of Public Health |
| Am J Trop Med Hyg | American Journal of Tropical Medicine and Hygiene |
| Ann Appl Stat | Annals of Applied Statistics |
| Ann Hum Biol | Annals of Human Biology |
| Ann Hum Genet | Annals of Human Genetics |
| Ann Trop Paediatr | Annals of Tropical Paediatrics |
| Antimicrob Agents Chemother | Antimicrobial Agents and Chemotherapy |
| Appl Physiol Nutr Metab | Applied Physiology, Nutrition, and Metabolism |
| Arthritis Rheum | Arthritis and Rheumatism |
| Atherosclerosis | Atherosclerosis |
| Best Pract Res Clin Gastroenterol | Best Practice & Research. Clinical Gastroenterology |
| Bing Du Xue Bao | Bing Du Xue Bao = Chinese Journal of Virology |
| Biol Psychiatry | Biological Psychiatry |
| Biomaterials | Biomaterials |
| Bioorg Med Chem | Bioorganic and Medicinal Chemistry |
| Bioorg Med Chem Lett | Bioorganic and Medicinal Chemistry Letters |
| BJOG | BJOG: An International Journal of Obstetrics and Gynaecology |

| Title Abbreviation | Full journal title |
|---|---|
| BMC Emerg Med | BMC Emergency Medicine |
| BMC Genomics | BMC Genomics |
| BMC Infect Dis | BMC Infectious Diseases |
| BMC Int Health Hum Rights | BMC International Health and Human Rights |
| BMC Med Ethics | BMC Medical Ethics |
| BMC Psychiatry | BMC Psychiatry |
| BMC Public Health | BMC Public Health |
| BMC Vet Res | BMC Veterinary Research |
| Brain Behav Evol | Brain, Behavior and Evolution |
| Br J Nutr | British Journal of Nutrition |
| Br J Oral Maxillofac Surg | British Journal of Oral & Maxillofacial Surgery |
| Br J Sports Med | British Journal of Sports Medicine |
| Br Med J | British Medical Journal |
| Bull Soc Pathol Exot | Bulletin De La Société De Pathologie Exotique |
| Bull World Health Organ | Bulletin of the World Health Organization |
| Can J Public Health | Canadian Journal of Public Health |
| Cancer Immunol Immunother | Cancer Immunology, Immunotherapy |
| Cancer Lett | Cancer Letters |
| Cardiovasc J Afr | Cardiovascular Journal of Africa |
| Child Abuse Negl | Child Abuse & Neglect |
| Child Care Health Dev | Child: Care, Health and Development |
| Childs Nerv Syst | Child's Nervous System |
| Circulation | Circulation |
| Clin Chim Acta | Clinica Chimica Acta |
| Clin Anat | Clinical Anatomy |
| Clin Exp Immunol | Clinical and Experimental Immunology |
| Clin Vaccine Immunol | Clinical and Vaccine Immunology |
| Clin Chem | Clinical Chemistry |
| Clin Drug Investig | Clinical Drug Investigation |
| Clin Immunol | Clinical Immunology |
| Clin Infect Dis | Clinical Infectious Diseases |
| Clin J Sport Med | Clinical Journal of Sport Medicine |
| CNS Spectr | CNS Spectrums |
| Cochrane Database Syst Rev | Cochrane Database of Systematic Reviews |
| Comp Biochem Physiol A Mol Integr Physiol | Comparative Biochemistry and Physiology. Part A, Molecular and Integrative Physiology |
| Croat Med J | Croatian Medical Journal |
| Current Allergy & Clinical Immunology | Current Allergy & Clinical Immunology |
| Current Cancer Therapy Reviews | Current Cancer Therapy Reviews |
| Curr Med Res Opin | Current Medical Research and Opinion |
| Curr Opin HIV AIDS | Current Opinion in HIV and AIDS |
| Curr Opin Infect Dis | Current Opinion in Infectious Diseases |
| Curr Opin Mol Ther | Current Opinion in Molecular Therapeutics |

| Title Abbreviation | Full journal title |
|--|---|
| Curr Opin Psychiatry | Current Opinion in Psychiatry |
| Curr Psychiatry Rep | Current Psychiatry Reports |
| Demogr Res | Demographic Research |
| Diabet Med | Diabetic Medicine |
| Emerg Infect Dis | Emerging Infectious Diseases |
| Endocrinology | Endocrinology |
| Environ Health Perspect | Environmental Health Perspectives |
| Environ Res | Environmental Research |
| Epidemiol Infect | Epidemiology and Infection |
| Ethn Dis | Ethnicity & Disease |
| Eur Cytokine Netw | European Cytokine Network |
| Eur Heart J | European Heart Journal |
| Eur J Appl Physiol | European Journal of Applied Physiology |
| Eur J Cancer Care | European Journal of Cancer Care |
| Eur J Clin Microbiol Infect Dis | European Journal of Clinical Microbiology and Infectious Diseases |
| Eur J Clin Pharmacol | European Journal of Clinical Pharmacology |
| Eur J Endocrinol | European Journal of Endocrinology |
| Eur J Immunol | European Journal of Immunology |
| Eur J Pharmacol | European Journal of Pharmacology |
| Eur Neuropsychopharmacol | European Neuropsychopharmacology |
| Evidence-Based Child Health: A Cochrane Review Journal | Evidence-Based Child Health: A Cochrane Review Journal |
| Exp Physiol | Experimental Physiology |
| Expert Opin Emerg Drugs | Expert Opinion on Emerging Drugs |
| FEBS J | FEBS Journal |
| Food Addit Contam | Food Additives and Contaminants |
| Food Nutr Bull | Food and Nutrition Bulletin |
| Free Radic Biol Med | Free Radical Biology and Medicine |
| Future HIV Therapy | Future HIV Therapy |
| Gait Posture | Gait and Posture |
| Genes Brain Behav | Genes, Brain, and Behavior |
| Genes Chromosomes Cancer | Genes, Chromosomes & Cancer |
| Genetics | Genetics |
| Genomics | Genomics |
| Geospat Health | Geospatial Health |
| Health Educ Behav | Health Education and Behaviour |
| Health Info Libr J | Health Information and Libraries Journal |
| Health Policy Plan | Health Policy and Planning |
| Health Promot Int | Health Promotion International |
| Health SA gesondheid | Health SA Gesondheid |
| Hepatology | Hepatology |
| Hepatology | Hepatology |
| Hepatol Res | Hepatology Research |

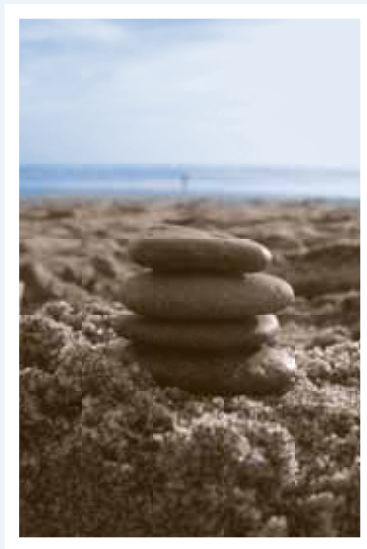
| Title Abbreviation | Full journal title |
|--|--|
| HIV Med | HIV Medicine |
| Hum Genet | Human Genetics |
| Hum Immunol | Human Immunology |
| IEEE Trans Biomed Eng | IEEE Transactions on Bio-medical Engineering |
| Implement Sci | Implementation Science |
| Indian J Med Ethics | Indian Journal of Medical Ethics |
| Indian Pediatr | Indian Pediatrics |
| Infect Agent Cancer | Infectious Agents and Cancer |
| Int Clin Psychopharmacol | International Clinical Psychopharmacology |
| Int J Equity Health | International Journal for Equity in Health |
| Int J Parasitol | International Journal for Parasitology |
| Int J Antimicrob Agents | International Journal of Antimicrobial Agents |
| Int J Body Compos Res | International Journal of Body Composition Research |
| Int J Cancer | International Journal of Cancer |
| Int J Cardiol | International Journal of Cardiology |
| Int J Epidemiol | International Journal of Epidemiology |
| Int J Food Sci Nutr | International Journal of Food Sciences and Nutrition |
| Int J Gynaecol Obstet | International Journal of Gynaecology and Obstetrics |
| Int J Health Geogr | International Journal of Health Geography |
| Int J Health Serv | International Journal of Health Services |
| Int J Infect Dis | International Journal of Infectious Diseases |
| Int J Med Sci | International Journal of Medical Sciences |
| Int J Obes | International Journal of Obesity |
| Int J Prison Health | International Journal of Prisoner Health |
| International Journal of Sports Science and Coaching | International Journal of Sports Science and Coaching |
| Int J STD AIDS | International Journal of STD & AIDS |
| Int J Tuberc Lung Dis | International Journal of Tuberculosis and Lung Disease |
| Int Nurs Rev | International Nursing Review |
| Int Rev Psychiatry | International Review of Psychiatry |
| ISMJ | International SportMed Journal |
| IPPF Med Bull | IPPF Medical Bulletin |
| J Acquir Immune Defic Syndr | Journal of Acquired Immune Deficiency Syndromes |
| J Adolesc Health | Journal of Adolescent Health |
| J Affect Disord | Journal of Affective Disorders |
| J Agric Food Chem | Journal of Agricultural and Food Chemistry |
| J Anat | Journal of Anatomy |
| J Antimicrob Chemother | Journal of Antimicrobial Chemotherapy |
| J Anxiety Disord | Journal of Anxiety Disorders |
| J AOAC Int | Journal of AOAC International |

| Title Abbreviation | Full journal title |
|-------------------------------|--|
| J Appl Microbiol | Journal of Applied Microbiology |
| J Appl Physiol | Journal of Applied Physiology |
| J Bacteriol | Journal of Bacteriology |
| J Biol Chem | Journal of Biological Chemistry |
| J Biomech | Journal of Biomechanics |
| J Biosoc Sci | Journal of Biosocial Science |
| J Bone Miner Res | Journal of Bone and Mineral Research |
| J Cell Mol Med | Journal of Cellular and Molecular Medicine |
| J Cell Biochem | Journal of Cellular Biochemistry |
| J Child Psychol Psychiatry | Journal of Child Psychology and Psychiatry, and Allied Disciplines |
| J Clin Endocrinol Metab | Journal of Clinical Endocrinology and Metabolism |
| J Clin Invest | Journal of Clinical Investigation |
| J Clin Lipidol | Journal of Clinical Lipidology |
| J Clin Microbiol | Journal of Clinical Microbiology |
| J Clin Psychiatry | Journal of Clinical Psychiatry |
| J Ethnopharmacol | Journal of Ethnopharmacology |
| J Exp Med | Journal of Experimental Medicine |
| J Gastroenterol Hepatol | Journal of Gastroenterology and Hepatology |
| J Health Psychol | Journal of Health Psychology |
| J Hepatobiliary Pancreat Surg | Journal of Hepato-Biliary-Pancreatic Surgery |
| J Immunol | Journal of Immunology |
| J Immunotoxicol | Journal of Immunotoxicology |
| J Infect | Journal of Infection |
| J Infect Dis | Journal of Infectious Diseases |
| J Int Dev | Journal of International Development |
| J Leukoc Biol | Journal of Leukocyte Biology |
| J Med Virol | Journal of Medical Virology |
| J Midwifery Womens Health | Journal of Midwifery & Women's Health |
| J Mol Endocrinol | Journal of Molecular Endocrinology |
| J Nat Prod | Journal of Natural Products |
| J Nerv Ment Dis | Journal of Nervous and Mental Disease |
| J Neurol Neurosurg Psychiatry | Journal of Neurology, Neurosurgery, and Psychiatry |
| J Occup Rehabil | Journal of Occupational Rehabilitation |
| J Pediatr Orthop | Journal of Pediatric Orthopedics |
| J Pestic Sci | Journal of Pesticide Science |
| J Physiol | Journal of Physiology |
| J Psychiatr Res | Journal of Psychiatric Research |
| J Psychiatry Neurosci | Journal of Psychiatry & Neuroscience |
| J Psychosom Res | Journal of Psychosomatic Research |
| J Sports Sci | Journal of Sports Sciences |
| J Stud Alcohol Drugs | Journal of Studies on Alcohol and Drugs |

| Title Abbreviation | Full journal title |
|-----------------------|--|
| J Sci Food Agric | Journal of the Science of Food and Agriculture |
| J Trauma | Journal of Trauma |
| J Trauma Stress | Journal of Traumatic Stress |
| J Travel Med | Journal of Travel Medicine |
| J Trop Pediatr | Journal of Tropical Pediatrics |
| J Urban Health | Journal of Urban Health |
| J Virol Methods | Journal of Virological Methods |
| J Virol | Journal of Virology |
| Lancet | Lancet |
| Lancet Neurol | Lancet Neurology |
| Life Sci | Life Sciences |
| Lipids | Lipids |
| Liver Int | Liver International |
| Malar J | Malaria Journal |
| Matern Child Nutr | Maternal & Child Nutrition |
| Matern Child Health J | Maternal and Child Health Journal |
| Med Trop (Mars) | Médecine Tropicale |
| Med Anthropol Q | Medical Anthropology Quarterly |
| Med Eng Phys | Medical Engineering and Physics |
| Med Sci Monit | Medical Science Monitor |
| Med Sci Sports Exerc | Medicine and Science in Sports and Exercise |
| Mem Inst Oswaldo Cruz | Memórias do Instituto Oswaldo Cruz |
| Metab Brain Dis | Metabolic Brain Disease |
| Methods | Methods |
| Microbes Infect | Microbes and Infection |
| Mol Cell Biochem | Molecular and Cellular Biochemistry |
| Mol Cell Probes | Molecular and Cellular Probes |
| Mol Biol Evol | Molecular Biology and Evolution |
| Mol Cancer Ther | Molecular Cancer Therapeutics |
| Mol Endocrinol | Molecular Endocrinology |
| Mov Disord | Movement Disorders |
| Mutat Res | Mutation Research |
| Nature | Nature |
| Nat Immunol | Nature Immunology |
| Nat Med | Nature Medicine |
| Nat Rev Microbiol | Nature Reviews. Microbiology |
| Neonatology | Neonatology |
| Neuroendocrinology | Neuroendocrinology |
| Neurology | Neurology |
| Neuromolecular Med | Neuromolecular Medicine |
| Neuropsychobiology | Neuropsychobiology |
| Nucleic Acids Res | Nucleic Acids Research |

| Title Abbreviation | Full journal title |
|------------------------------------|---|
| Nutrition | Nutrition |
| Obstetrics and Gynaecology Forum | Obstetrics and Gynaecology Forum |
| Oncol Rep | Oncology Reports |
| Ophthalmic Genet | Ophthalmic Genetics |
| Oral Maxillofac Surg Clin North Am | Oral and Maxillofacial Surgery Clinics of North America |
| Paediatr Perinat Epidemiol | Paediatric and Perinatal Epidemiology |
| Pain | Pain |
| Pancreas | Pancreas |
| Pathol Int | Pathology International |
| Pediatr Infect Dis J | Pediatric Infectious Disease Journal |
| Pediatr Radiol | Pediatric Radiology |
| Pediatrics | Pediatrics |
| Pharmacopsychiatry | Pharmacopsychiatry |
| Physiol Behav | Physiology and Behavior |
| Physiotherapy | Physiotherapy |
| Phytochemistry | Phytochemistry |
| Planta Med | Planta Medica |
| Plast Reconstr Surg | Plastic and reconstructive surgery |
| PLoS Med | PLoS Medicine |
| PloS One | PloS One |
| PLoS Pathog | PLoS Pathogens |
| Postgrad Med J | Postgraduate Medical Journal |
| Pract Neurol | Practical Neurology |
| Proc Natl Acad Sci U S A | Proceedings of the National Academy of Sciences of the United States of America |
| Protein Expr Purif | Protein Expression and Purification |
| Psychol Rep | Psychological Reports |
| Psychopharmacologia | Psychopharmacologia |
| Psychophysiology | Psychophysiology |
| Public Health Nutr | Public Health Nutrition |
| Qual Life Res | Quality of Life Research |
| Reprod Health Matters | Reproductive Health Matters |
| Rev Bras Psiquiatr | Revista Brasileira de Psiquiatria |
| SA Cardiology & Stroke | SA Cardiology & Stroke |
| SAHARA J | SAHARA Journal |
| Scand J Public Health Suppl | Scandinavian Journal of Public Health Supplement |
| Science | Science |
| Sex Transm Infect | Sexually Transmitted Infections |
| Soc Sci Med | Social Science & Medicine |
| Soc Sci Q | Social Science Quarterly |
| Soc Nat Resour | Society & Natural Resources |
| SAJEV | South African Journal for Entology and Viticulture |

| Title Abbreviation | Full journal title |
|---|--|
| S Afr J Bot | South African Journal of Botany |
| SAJCN | South African Journal of Clinical Nutrition |
| South Afr J Epidemiol Infect | South African Journal of Epidemiology and Infection |
| S Afr J Obstet Gynaecol | South African Journal of Obstetrics and Gynaecology |
| S Afr J Psychol | South African Journal of Psychology |
| S Afr J Sci | South African Journal of Science |
| SAJSM | South African Journal of Sports Medicine |
| S Afr J Surg | South African Journal of Surgery |
| S Afr Med J | South African Medical Journal |
| South Afr J Epidemiol Infect | Southern African Journal of Epidemiology and Infection |
| Sports Biomech | Sports Biomechanics |
| Sports Med | Sports Medicine |
| Stroke | Stroke |
| Subst Abuse Treat Prev Policy | Substance Abuse Treatment, Prevention, and Policy |
| Synlett | Synlett |
| Tissue Eng | Tissue Engineering |
| Toxicology | Toxicology |
| Trans R Soc Trop Med Hyg | Transactions of the Royal Society of Tropical Medicine and Hygiene |
| Trends Endocrinol Metab | Trends in Endocrinology and Metabolism |
| Trop Med Int Health | Tropical Medicine & International Health |
| Tuberculosis | Tuberculosis |
| Tydskrif vir Letterkunde | Tydskrif vir Letterkunde |
| Vaccine | Vaccine |
| Virology | Virology |
| Water SA | Water SA |
| World Dev | World Development |
| World J Biol Psychiatry | World Journal of Biological Psychiatry |
| World J Surg | World Journal of Surgery |
| World Psychiatry | World Psychiatry |
| Zhonghua Liu Xing Bing Xue Za Zhi | Zhonghua Liu Xing Bing Xue Za Zhi = Zhonghua Liuxingbingxue Zazhi |
| Zhonghua Shi Yan He Lin Chuang Bing Du Xue Za Zhi | Zhonghua Shi Yan He Lin Chuang Bing Du Xue Za Zhi = Zhonghua Shiyan He Linchuang Bingduxue Zazhi = Chinese Journal of Experimental and Clinical Virology |



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