

CURRICULUM VITAE - CALUM N.L. MACPHERSON

NAME Calum Norman Lindsay Macpherson
DOB 29th September 1955, Nairobi, Kenya
NATIONALITY British
ADDRESS St George's University, P.O. Box 7, St Georges, Grenada.
West Indies, 444 3068, Fax (1 473) 444 3041,
E-mail cmacpherson@sgu.edu
EDUCATION 1975-1978 University of Sheffield, Yorkshire, England.
1978-1981 Imperial College of Science and Technology
University of London, England.
DEGREES BSc, Zoology, First class honors 1978
PhD, Parasitology/Epidemiology 1981
DIC, Diploma of Imperial College 1981
AssEVPC, Associate Member European Veterinary College, 2004

CAREER: CURRENT APPOINTMENTS

2007 - Vice Provost, International Program Development, SGU
2003 - Dean, Graduate Studies Program, SGU
1993 - Director of Research, SGU
1993 - Professor, Parasitology, SGU, School of Medicine
1999 - Professor, Veterinary Parasitology, SGU, School of Veterinary Medicine
1993 - Founding Director and Vice President, Windward Islands Research and Education
Foundation (WINDREF) a 501 (c) 3 charitable foundation registered in the State of
New York
2006 - Co-ordinator Global Scholars Program for the SGU\UNN link

CAREER: HISTORICAL APPOINTMENTS

1991-1993 Professor of Veterinary Parasitology, University of the West
Indies, (UWI), St Augustine, Trinidad, West Indies.

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- 1990-1991 Temporary Lecturer, Liverpool School of Tropical Medicine, UK
1988 - 1990 Director, Swiss Tropical Institute Field Laboratory, (STIFL), Ifakara, Tanzania, East Africa
1987 - 1988 Deputy director, Swiss Tropical Institute Field Laboratory,
1983 - 1987 Field Project Leader, African Medical Research and Education Foundation (AMREF), Nairobi, Kenya.
1984-1985 Research Fellow, Imperial College, London.
1978-1983 Research Associate, AMREF, Nairobi, Kenya.
1981-1984 Research Assistant, Imperial College, London.

HONORARY APPOINTMENTS

- 1996 - 2004 Co-ordinator WHO informal working group network for the ultrasound classification of cystic hydatid disease
1985 - 1993 Honorary Lecturer, Liverpool School of Tropical Medicine, UK.
1993 - 1996 Honorary Research Fellow, Liverpool School of Tropical Medicine.
1996 - Member, Advisory Board, Center for International Health, State University of New York at Stony Brook
1996 - 2000 Member, Scientific Advisory Board, Caribbean Medical and Education Foundation, Barbados
2000 - Member, Advisory Council of The International Medical Education Trust 2000. London
2001 Member, Grenada Ministry of Health Anthrax Task Force
2002 - Member, Grenada Ministry of Health, Special Committee on dengue
2002 - Member steering committee Ministry of Agriculture World Bank funded Dry Forest Action Plan for Grenada

SCHOLARSHIP\ HONOURS\ AWARDS

- 1978-1979 Rotary International Scholar (UK)
1981 Marshall Scholarship for excellence in Research in Zoology (Imperial College)
2004 Elected as an associate member of the European Veterinary Parasitology College
2005 Citation for service to SGU following Hurricane Ivan (Sept 7th 2004)
2005 Elected a member of the Society of Phi Zeta
2005 Pfizer award for research excellence (School of Veterinary Medicine)
2007 Award for research excellence, SGU 30th Anniversary

CONSULTANCIES

- 1987 - For AMREF's Evaluation and Operational Research Unit, Kenya. Report entitled "An independent evaluation for the control of bilharzia at the Lake Kenyatta settlement scheme".
1987 - For Redd Barna Ethiopia. Report entitled "Proposal for the research, control and treatment of hydatid disease amongst the pastoralists of southwest Ethiopia".
1990 - For LSTMH in Xinjiang, China. Work involved helping to set up an epidemiological study on hydatid disease amongst the semi-nomadic Kazak people.
1990 - Wildlife Conservation Society of Tanzania. Development of project proposals for wildlife conservation.
1991 - For the African Elephant Conservation Coordinating Group (Oxford) - three week trip to

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- Tanzania. Report entitled 'Elephant Action Plan for Tanzania'. Funded by WWF, AWF, IUCN.
- 1995 - Workshop on Socio-economic aspects of disease, Pretoria, South Africa. Presented a paper entitled *Socio-economic consequences of disease, individual, community and national perspectives*.
- 1996 - Libya to help set-up their national Hydatid Disease control program.
- 2000 - Morocco to help conduct the first Cystic Echinococcosis ultrasound surveillance study in the mid Atlas mountains.
- 2005 - Turkey to help conduct the first Cystic Echinococcosis ultrasound surveillance study in eastern Turkey and to help plan their national control program.

CURRENT COLLABORATIVE PROJECTS\GRANTS – 2000 - 2006

- Dr John Zabriskie, Rockefeller. Grant from the Lonsbury Foundation (2000 – 2010: US\$ 145,000.00) to study Rheumatic fever in Grenada and St Vincent.
- Dr Calum Macpherson. From various donors (2000 – 2010: US\$ 1,000,000.00). WINDREF center projects
- B.J. Lawson Foundation for children US\$ 45,000.00 NTD's

During my career I have raised grants in excess of US \$ 15,000,000.00.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- 1981 - Royal Society of Tropical Medicine and Hygiene - Fellow
- 1978 - 1992 British Society of Parasitology - Member
- 1987 - 1990 Tanzania Public Health Association - Member
- 1987 - 1990 Wildlife Conservation Society of Tanzania - Member
- 1994 - World Association for the Advancement of Veterinary Parasitology - Member
- 1994 - International Congress of Hydatidology – Member
- 1999 - International Congress of Hydatidology – Corresponding Member
- 1996 - American Society of Tropical Medicine and Hygiene - Member
- 1997 - Grenada Public Health Association – Member
- 2002 - 2006 Caribbean Health Research Council - Observer
- 2004 - European Veterinary Parasitology College – elected associate member
- 2006 - American Society for Ultrasound - Member
- 2008 - New York Academy of Sciences - Member

MEMBERSHIP OF INTERNATIONAL NETWORKS

- 1994 - WHO\IWGE network on echinococcosis
- 2002 - Global Alliance for the Elimination of Lymphatic Filariasis
- 2004 – Global Health Educational Consortium
- 2005 - FAO\OIE International network on veterinary public health

EDITORIAL BOARDS

- 2006 - *The Africa Journal for Animal and Biomedical Sciences* - Member
 2006 - *West Indian Veterinary Journal* - Member

JOURNAL REVIEWS

During the last few years I have been requested to review papers for the following Journals:

Acta Tropica
Annals of Tropical Medicine and Parasitology
BMC Infectious diseases
Emerging Infectious Diseases
Gastroenterology
International Journal for Parasitology
Journal of the Caribbean Veterinary Medical Association
Lancet
Small Animal Practice
Transactions of the Royal Society of Tropical Medicine and Hygiene
Veterinary Record
BMC Infectious Disease
J. Emerging Infectious Diseases,
Epidemiology and Infection,
Trends in Parasitology,
Parasitology International

FOUNDATION GRANT REVIEWER

- 1996 - Federal Research Division (South Africa)
 1998 - Wellcome Trust (UK)

SUPERVISION OF GRADUATE STUDENTS

Supervised over 60 MSc, MtropMed, MD/MSc and PhD students in Kenya, Tanzania, India, the UK, Nevis and Grenada (list available upon request). My earliest PhD student was Dr T.W.M. Wachira, DVM, Msc who took over the hydatid project in Turkana when I left. Two other PhD students, Drs Gathura and Njeru are now full professors in the School of Veterinary Medicine of the University of Nairobi, Kenya.

A list of my current students is given below.

Students Name	Degree	School	Position on Advisory committee
Shamdeo Persaud, MD, MPH	PhD	SOM	Chair
Trevor Noel, MPH	PhD	SVM	Chair
Tara Patterson, DVM	MSc	SVM	Member

Camille Coomansingh, BSc	MSc	SVM	Member
Anthony Junck, BSc	MSc	SOM	Chair
Kevin Neil, BSc	MSc	SOM	Chair
Ede Langivine. BSc	MSc	SOM	Chair
Cindi Hillemeier	MSc	SVM	Member
Alejandro Martinez	MSc	SVM	Member
Sarah Mihalek	MSc	SVM	Member

OVERSEAS STUDENT RESEARCH TRIPS ORGANISED AND LED \ FACILITATED

1980 – 12 Royal Veterinary College, London: Students visit to Turkana, Kenya: 6 weeks
1992 – 16 Royal Veterinary College, London: Students visit to Trinidad and Tobago: 6 weeks
1995 – 10 Med SGU students to Guyana – 2 weeks
1996 – 6 Med SGU students to Guyana – 2 weeks
1997 – 5 Med SGU students to Guyana – 2 weeks
1998 – 5 Med SGU students to Guyana – 2 weeks
1999 – 2 Med SGU students to Peru – 2 weeks
2000 – 4 Med SGU students to Guyana – 1 week
2003 – 25 Med and Vet SGU students to Morocco, Uganda – 6 weeks
2004 – 20 Med and Vet SGU students to Morocco, Uganda – 6 weeks
2005 – 12 Med and Vet SGU students to Uganda – 6 weeks
2007 – 3 Med SGU students to Peru – 3 weeks
2008– 2 Med SGU students to Cuba – 2 weeks
2009 – 23 Med and Vet SGU students to Uganda and Kenya – 6 and 2 weeks

EXTERNAL EXAMINER

1988 – 1989 University of Nairobi, Kenya. Zoology Department (MSc theses)
2001 Murdoch University, Australia. Division of Veterinary and Biomedical Sciences, PhD thesis.

COUNTRIES WHERE I HAVE HAD A WORKING EXPERIENCE

Kenya, Uganda, Sudan, Ethiopia, Tanzania, The Gambia, South Africa, Zimbabwe, Swaziland, Botswana, Libya, Morocco, Turkey, Cyprus, India, China, Peru, Guyana, Venezuela, St Lucia, Grenada, Trinidad, St Vincent, England, Italy, Switzerland, Romania, United States. I have also developed links \ conducted university business in South Korea, Thailand, Hong Kong, Taiwan, Vietnam and Malaysia.

ADMINISTRATIVE PHILOSOPHY

In 1982 the Kenyan Government appointed me as the director of a national cystic echinococcosis pilot control program where I coordinated a professional team of 8 veterinarians, physicians and scientists

and 40 staff, conducted and organized fundraising activities, and produced annual reports. At the Swiss Tropical Institute I had the same mandate but with a much larger organization and budget, which was in excess of US\$ 7 million annually. The 24 odd years of administrative and educational roles in a number of countries and cultures have allowed me to develop my administrative skills and philosophy.

Guided by an institutional mission, my administrative philosophy is to collaboratively develop an administrative vision that empowers all members of the team to meet short and long term goals. To achieve this, my approach is to facilitate and enhance team members fiduciary responsibilities by valuing and nurturing the individual qualities of each member. This requires encouraging collegial attitudes and relationships, demonstrating accountability and integrity, and promoting ethical standards and behavior. Thus my philosophy is to be proactive and to focus on good working relationships and goals.

I believe in a commitment to service and in this regard I have donated my time freely to the development and implementation of a charitable and educational foundation, the Windward Islands Research and Education Foundation – WINDREF of which I am the founding director and vice president. Lord Soulsby, DVM serves as the President of this foundation which was established in 1994.

CURRENT SGU COMMITTEES

- 1994- SGU, School of Medicine, Board of Admissions - Member
- 1994 - Panel on Research and Scholarly Activity - Secretary
- 1994 - Research lecture series committee - Chair
- 1995 - Library Committee - Member
- 1997 - Public lecture series committee (Chair till 2003), Member
- 2001 - University Senate - Member
- 2001 - CME Scientific Committee - Member
- 2002 - Institutional Animal Care and Use Committee - Member
- 2002 - Research Oversight Committee- Member
- 2001 - SOM Computer and multimedia applications in med education - Executive Committee - Member
- 2001- Clinical Health Related Issues committee - Member
- 2003 - Academic Deans Committee - Member
- 2003 - University Council of Deans - Member
- 2005- School of Veterinary Medicine accreditation committee - Member
- 2008 - Taylor lecture series committee - Chair

STUDENT ORGANIZATIONS

- 2004 – 2005 African students association - Founding Faculty advisor
- 2007 - Students for Global Health - Founding faculty advisor
- 2008 - International veterinary students association - faculty advisor

BRIEF TEACHING PHILOSOPHY

I have been fortunate to learn from the following mentors who have shaped and formed my own teaching and graduate supervision philosophy: Louis Leaky (formative years), Igor Mann, DVM, OBE, George S. Nelson, MD, FRCP, Desmond Smyth, ScD, Sir Michael Wood, MD, Calvin W. Schwabe, DVM, Lord Soulsby, DVM and Keith Taylor, MD.

I enjoy teaching veterinary and medical students who are invariably bright, committed and revel in the challenge of learning. Being graduate students they usually have the skills of learning effectively and my philosophy is to place an emphasis on stimulating the students to investigate the subject beyond the classroom. Small group teaching following overview didactic lectures I find is a good format to achieve this learning goal.

TEACHING ACTIVITIES IN 2009

- Parasitology – 32 lectures - per year
- GSP: Tropical Medical Parasitology – 10 lectures and a field trip (this year the trip was to Kenya (15 students) to work with AMREF and the nomadic Masai and look at wildlife:domestic animal: human disease interactions).
- Pavia University: Short course on ultrasound in the tropics: course for physicians and veterinarians. Approved and recognised by WHO. 4 lecture hours.

ABSTRACTS /PRESENTATIONS AT INTERNATIONAL CONFERENCES

I have presented abstracts and oral papers at over 100 conferences and been invited to give lectures\CME presentations etc in England, Scotland, Northern Ireland, Italy, Canada, Australia, India, Kenya, Tanzania, South Africa, Zimbabwe, Botswana, the Gambia, Libya, the Netherlands, Switzerland, Grenada, St Vincent, St Maarten, Trinidad, Tobago, Jamaica, Barbados, Guyana, Costa Rica, India, China, Cyprus, Morocco, Turkey and the United States. Most of the abstracts have been published.

INVITED PLENARY/WORKSHOP/ ROUNDTABLE /CME PRESENTATIONS

- Macpherson, C.N.L. 1993. Epidemiology and control of parasites in nomadic Situations. In: *Understanding the control of parasitic diseases of animals*. Proceedings of the 14th International Conference of the World Association for the Advancement of Veterinary Parasitology, 8 - 13th August, Cambridge, UK. p 26.
- Macpherson, C.N.L. 1994. The effect of transhumance on the epidemiology of animal diseases. In: Proceedings of the 7th International Symposium on Veterinary Epidemiology and Economics, 15-19th August, 1994, Nairobi, Kenya. *The Kenya Veterinarian* 18: 22-23.
- Macpherson, C.N.L. 1995. Parasitology in livestock in the tropics. In: *Advances in Tropical Agriculture in the 20th Century and prospects for the 21st: TA 2000*, Port of Spain, Trinidad, West Indies.

- Macpherson, C.N.L. 1995. Socio-economic consequences of disease, individual, community and national perspectives. Workshop on Socio-economic aspects of animal disease, Pretoria, South Africa. PP 37 - 59.
- Macpherson, C.N.L. 1996. Use of ultrasound for diagnosing parasitic diseases with special reference to *Echinococcus* infection in humans. CME, Grenada, 25th August, 1996.
- Macpherson, C.N.L. 1997. Humans, dogs and zoonoses – a global perspective. 11th February, 1997. CME, Grenada. (CME credits from Duke University, USA).
- Macpherson, C.N.L. 1997. Chairman: Socio-economics the role of the parasitologist in society beyond 2000. World Association for the Advancement of Veterinary Parasitology, Sun City, South Africa, August 1997.
- Macpherson, C.N.L. 1997 Co-ordinator: World Health Organisation informal network on A standardisation of the ultrasound classification of Cystic Echinococcosis ≅ Lisbon, Portugal, Thursday 6th November, 1997.
- Macpherson, C.N.L. 1999. Classification of cystic images. XIX Congreso Internacional de Hidatidology, Bariloche, Argentina. (Sept 23rd).
- Macpherson, C.N.L. 2000. Sonographic diagnosis of Cystic Echinococcosis. Meeting “Focus on Echinococcosis”, Gargonza Castle, Arezzo, Italy (Sept 2nd).
- Macpherson, C.N.L. 2000. The changing picture of intestinal parasitoses in the Caribbean. CME on *Common Contagious Diseases in the Windward Islands*. St Vincent and the Grenadines, September 24th, 2000. (CME credits from Seton Hall, New Jersey, USA)
- Macpherson, C.N.L. 2001. Ultrasound classification and its application in field situations. XX International Congress of Hydatidology, Turkey, June 2001.
- Macpherson, C.N.L. 2001. Predictive values and quality control of ultrasound surveys on echinococcosis in human populations. XX International Congress of Hydatidology, Turkey, June 2001.
- Macpherson, C.N.L. 2001. Ecological and experimental evidence of wildlife cycles in Eg in Africa. WHO workshop on Advances in ecology and parasitological methods for evaluating transmission in wildlife. XX International Congress of Hydatidology, Turkey, June 2001.
- Macpherson, C.N.L. 2001. Anemia and parasites. CME, St Vincent, September 2001. (CME credits from Seton Hall, New Jersey, USA).
- Macpherson, C.N.L. and Schioler, K. 2002. Epidemiology and diagnosis of dengue: Why dengue hemorrhagic fever and dengue shock syndrome are important now in the Americas. Grenada, 27th April, 2002. (CME credits from Seton Hall, New Jersey, USA).
- Macpherson, C.N.L. 2003. Uses of ultrasound in parasitological screening programs, June 2003. (CME credits from Pavia University, Pavia, Italy).
- Macpherson, C.N.L. 2003. Vertical Transmission of Toxoplasmosis. CME, St Vincent, September 2003. (CME credits from Seton Hall, New Jersey, USA).
- Macpherson, C.N.L. 2003. Research at St George’s University. CME, Grenada, October 2003. (CME credits from Seton Hall, New Jersey, USA)
- Macpherson, C.N.L. 2005. The role of ultrasound in *Echinococcus* control programs: diagnosis, treatment, surveillance and education, Plenary paper 14th Annual Parasitology Congress, Izmir, Turkey, 23 Sept 2005;

- Macpherson, CNL, 2005. The role of academic institutions in the lymphatic filariasis elimination program in the Americas, 6th Regional PAHO meeting, on the program for the elimination of lymphatic filariasis, Costa Rica.
- Macpherson, CNL 2005 The use of ultrasound in the epidemiology of parasitic disease, Invited symposium paper, American Society of Tropical Medicine and Hygiene, Washington.
- Macpherson, C.N.L. 2006. Tropical parasitic diseases: the potential of ultrasound as a screening tool. Short course on abdominal ultrasound in infectious diseases and tropical medicine, 24-28th April, 2006, Pavia, Italy
- Macpherson, C.N.L. 2006. The role of ultrasound in studying the epidemiology of parasitic disease. 18th European Congress of Ultrasound, 15-19 September, 2006, Bologna, Italy (invitation accepted).
- Macpherson, C.N.L. 2006. Investigating the epidemiology of *Echinococcus*: ultrasound. 15th Turkish Society for Parasitology 6 - 8 September, 2006, Samsun, Turkey (invitation accepted).
- Macpherson, C.N.L. 2007. Ultrasound imaging and classification for cystic echinococcosis. Updating the WHO-IWGE guidelines for the treatment of cystic and alveolar echinococcosis. Besancon, France September.
- Macpherson, CNL. 2011. European Society of Clinical Microbiology and Infectious Diseases. Cystic echinococcosis: burden of disease in the EU. Pavia, Italy, September 21-25, 2011- invited plenary speaker.

INVITED LECTURES

Notable invited lectures include presentations at:

- Royal Society of Medicine (London)
- Royal Society of Tropical Medicine and Hygiene (Manson House, London)
- Royal Society of Tropical Medicine (Scottish Branch: Edinburgh)
- Royal Veterinary College (London)
- Zoological Society (London)
- Queen's University (Belfast)
- Stanford (California, USA)
- Harvard School of Tropical Public Health (Boston, USA)
- Rockefeller University (New York, USA)
- University of California, San Francisco (California, USA)
- World Health Organization, Geneva, Switzerland (numerous)
- Onderstepoort, School of Veterinary Medicine (Pretoria, South Africa)
- MRC Laboratories (The Gambia)
- Aligarh Muslim University (India)
- Murdoch University (Perth, Australia)
- Institute Agronomie et Veterinaire (Morocco)
- Texas A&M, School of Veterinary Medicine (USA)
- Pavia University (Italy)

Makerere University (Uganda)

PUBLICATIONS

The list of publications appended often have multiple authors and is evidence of the diversity of close collaborative links forged over the years with different individuals from a number of institutions, nations and cultures.

BOOKS

- Macpherson, C.N.L. and P.S. Craig (Editors) 1990. *Parasitic Helminths, and Zoonoses in Africa*. Unwin Hyman, London. 281 pp.
- Mwaluku, G., Kilama, W.L., Mandara, M., Murru, M., and Macpherson, C.N.L. (Editors) 1991. *Health and Disease in Tanzania*. Harper Collins, London. pp 314,
- Macpherson, C.N.L. 1998. *Introductory Medical Parasitology* 4th Edn. McGraw Hill, Iowa, pp 244.
- Macpherson, C.N.L., Meslin, F-X, and Wandeler, A. (eds) (2000). *Dogs, Zoonoses and Public Health*, CAB International Publishing, Wallingford, Oxon, UK. pp 400. *Dogs, Zoonoses and Public Health*. Meslin, F-X, A. Wandeler and C.N.L. Macpherson (eds). CAB International, Guildford, 177-212.

BOOK CHAPTERS\MIMEOGRAPHS

1990 - 1999

- Macpherson, C.N.L. and P.S. Craig 1990. Echinococcosis - a plague on pastoralists. In: *Parasitic helminths and zoonoses in Africa*, Macpherson C.N.L. and P.S. Craig (Editors). Unwin Hyman, London. 25-53.
- Macpherson, C.N.L., W.L. Kilama and C.M. Kihamia 1991. Miscellaneous parasitic infections. In: *Health and Disease in Tanzania* (Mwaluko, G.M.P., W.L. Kilama, M.P. Mandara, M. Murru and C.N.L. Macpherson (Editors). Harper Collins, London. 189 - 198.
- Schantz, P.M., C. Junje, P.S. Craig, J. Eckert, D.J. Jenkins, C.N.L. Macpherson and A. Thakur 1995. Epidemiology and control of hydatid disease. In: *Echinococcus and hydatid disease* (R.C.A. Thompson and A.J. Lymbery eds). CAB International: Guildford, 233 - 331.
- Macpherson, C.N.L. and Wachira T.W.M. 1997. Cystic echinococcus in Africa south of the Sahara. In: Andersen, F.L. Ouhelli, H. and Kachani, M. (eds), *Compendium on cystic echinococcosis in Africa and in Middle Eastern Countries with special reference to Morocco*, Brigham Young University, Provo, Utah, USA, pp 245 - 277.

2000

- Macpherson, C.N.L. and P.S. Craig (2000). Dog Cestode zoonoses. In: *Dogs, Zoonoses and Public Health*. Meslin, F-X, A. Wandeler and C.N.L. Macpherson (eds).

CAB International, Guildford, 177-212.

Macpherson, C.N.L. (2000). Use of ultrasound in the epidemiology of parasitic diseases with special reference to *Echinococcus granulosus* and *E. multilocularis* infections. In: *Hepatobiliary Parasitology and Parasitic Diseases*. J. Ci Peng and D.P. McManus (Eds.). International Chinese Medical Press, China pp 302-317 (in Chinese).

2001

Brunetti, E., Filice, C., Macpherson, C., Meslin, F-X. And Vuitton, D. (2001) PAIR. An option for the treatment of cystic echinococcosis. WHO informal working group on echinococcosis. WHO/CDS/CSR/APH/2001.6

Macpherson, C.N.L. (2001). Epidemiology of *Echinococcus granulosus* in transhumant Situationns. In: Eckert, J., Gemmell, M.A., Pawlowski, K. and Meslin F.-X. (eds), WHO/OIE Manual on Echinococcosis in Humans and Animals, WHO\OIE, Paris, France, pp 156-163.

Pawlowski, Z. Eckert, J. Vuitton, D. Ammann, R. Kern, P. Craig, P. Dar, K.F. De Rosa, F. Filice, C. Gottstein, B. Grimm, F. Macpherson, C.N.L. Stato, N. Todorov, T. Uchino, J. Von Sinner, W. and Wen, H. 2001. Echinococcosis in humans: clinical aspects, diagnosis and treatment. In: Eckert, J., Gemmell, M.A., Pawlowski, K. and Meslin F.-X. (eds), WHO/OIE Manual on Echinococcosis in Humans and Animals, WHO\OIE, Paris, France, pp 20 - 71.

2007

Catan, P and Macpherson, C.N.L. The pothounds and pompeks of Grenada. In: Bekoff, M. (ed), Encyclopedia of Human-Animal relationships. Vol 2: *Culture, Religion and Belief Systems*, Greenwood Press, London. pp 576-579.

PUBLICATIONS

1981

Macpherson, C.N.L.1981. Epidemiology and strain differentiation of *Echinococcus granulosus* in Kenya. PhD thesis, University of London.

Macpherson, C.N.L.1981. The existence of *Dracunculus medinensis* (Linnaeus,1758) in Turkana, Kenya. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **75**: 680-681.

Macpherson, C.N.L. and Karstad, L.1981. The role of jackals in the transmission of *Echinococcus granulosus* in the Turkana district of Kenya. In: *Wildlife Disease Research and Economic Development*. Karstad, L., Nestel, B. & Graham, M. (Editors). International Development Research Centre, Ottawa, Canada, pp. 53-56.

1982

Macpherson, C.N.L. and McManus, D.P.1982. A comparative study of *Echinococcus granulosus* from human and animal hosts in Kenya using isoelectric focusing and isoenzyme analysis. *International Journal for Parasitology*, **12**: 515-521.

Macpherson, C.N.L., Wood, A.M. and French, C.M.1982. The use of Cetrimide^R as a scolicalid adjunct to hydatid surgery. In: *Current Medical Research in East Africa with emphasis on Zoonoses and Waterborne Diseases*. Tukei, P.M. and Njogu, A.R. (Eds:) pp. 21-25.

Stevenson, P. and Macpherson, C.N.L.1982. The recovery of cestode eggs from water and soil in the Turkana District of Kenya. In: *Current Medical Research in Eastern Africa with an Emphasis on Zoonoses and Waterborne Diseases*. Tukei, P.M. and Njogu, A.R.(Eds) pp 13-15.

1983

- Macpherson, C.N.L.1983. An active intermediate host role for man in the life cycle of *Echinococcus granulosus* in Turkana, Kenya. *American Journal of Tropical Medicine and Hygiene*, **32**: 397-404.
- Macpherson, C.N.L., Karstad, L., Stevenson, P. and Arundel, J.H.1983. Hydatid disease in the Turkana District of Kenyaiii. The significance of wild animals in the transmission of *Echinococcus granulosus*, with particular reference to Turkana and Masailand. *Annals of Tropical Medicine and Parasitology*, **77**: 61-73.
- Macpherson, C.N.L. and O'Leary, P.1983. Guinea worm disease (dracontiasis) in Turkana District. In: *Current Public-health research in the tropics*. Tukei, P.M. and Njogu, A.R (Eds). pp 141-142.
- Allsopp, B.A., Macpherson, C.N.L., Jones, A. and Muchemi, G.K.H.1983. Techniques for the identification of gastro-intestinal helminths obtained from carnivores in Kenya. In: *Current Research on the Gastro-intestinal Tract and Associated Organs in the African Environment* Tukei, P.M. (Ed.). pp.31-35.
- French, C.M. and Macpherson, C.N.L.1983. The man/dog relationship in the culture of the Turkana and its significance in the transmission of human hydatid disease. In: *Current Public-health Research in the Tropics*. Tukei, P.M. and Njogu, A.R. (Eds) pp.121-126.

1984

- Macpherson, C.N.L., Wood, A.M., Wood, C., French, C.M., Omondi, L.O., Mwangi, M. Arap Siongok, T.K., O'Leary, P., Ngunnzi, M., Okelo, G.B.A. and Mann, I. 1984. Perspective on options for the implementation of a pilot hydatidosis control programme in the Turkana District of Kenya. *East African Medical Journal*, **61**: 513-523.
- Macpherson, C.N.L., Zeyhle, E. and Romig, T. 1984. An *Echinococcus* pilot control programme for north west Turkana, Kenya. *Annals of Tropical Medicine and Parasitology*, **78**: 188-192.
- Johnson, B.K., Greenfield, C., Oche'ng, D., Gichogo, A., French, C.M., Macpherson, C.N.L., Zeyhle, E., Romig, T., Galpin, S. and Thomas, H.C.1984. A survey of the human population of Turkana for evidence of exposure to Marburg, Ebola, Hepatitis B and Delta viruses. In: *Current Research on the Gastro-intestinal Tract and Associated Organs in the African Environment*. Tukei, P.M. (Editor). pp.215-219.
- McManus, D.P. and Macpherson, C.N.L.1984. Strain characterisation in the hydatid organism *Echinococcus granulosus*: current status and new perspectives. *Annals of Tropical Medicine and Parasitology*, **78**: 193-198.

1985

- Macpherson, C.N.L.1985. Epidemiology of hydatid disease in Kenya: a study of the domestic intermediate hosts in Masailand. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **79**: 209-207.
- Macpherson, C.N.L. and Smyth, J.D.1985. *In vitro* culture of the strobilar stage of *Echinococcus granulosus* from protoscoleces of human, camel, cattle, sheep, goat origin from Kenya and buffalo origin from India. *International Journal for Parasitology*, **15**: 137-140.
- Macpherson, C.N.L., French, C.M., Stevenson, P. Karstad, L. and Arundel, J.H.1985. Hydatid disease in the Turkana District of Kenyaiv. The prevalence of *Echinococcus granulosus* infections in dogs and observations on the role of the dog in the lifestyle of the Turkana. *Annals of Tropical*

Medicine and Parasitology, **79**: 51-61.

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Another 10 papers are in various stages of preparation