

# **Hot Topics in Infection and Immunity in Children 2005**



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## **The Oxford Course**

**A course covering topics in paediatric infection for Paediatric Infectious Diseases trainees and trainers and for all those who manage children with infections.**

**Organised by  
Andrew J Pollard, Ronald De Groot, Ron Dagan, & Adam Finn**

# Infection and Immunity in Children 2005 Course Brochure

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## Useful/Emergency Numbers for Oxford:

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|----------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Police         | St Aldates, Oxford                                                                                                   | 01865 266000                                                      |
| Hospital A & E | John Radcliffe Hospital, Oxford                                                                                      | 01865 220223                                                      |
| Post Office    | St Aldates, Oxford                                                                                                   | 01865 202863                                                      |
| Library:       | Westgate Centre, Oxford                                                                                              | 01865 815509                                                      |
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# INFECTION AND IMMUNITY IN CHILDREN 2005



Dear Delegate,

We are very pleased to welcome you to Infection and Immunity in Children 2005 at St Catherine's College, Oxford. We have lined up over 30 excellent speakers for your education and entertainment and we are very much looking forward to listening to them ourselves!

In order to bring you such a comprehensive course programme we have left a minimum of time in the daily schedule and it is therefore vital that you attend all sessions and mealtimes promptly. The speakers have been asked to keep strictly to time. You will note from the programme that we have included a free evening on Monday, when you will be able to explore the City of Oxford a little. Please note that there is no evening meal provided on Monday. You will find an abundant selection of restaurants and cafes in the centre of Oxford.

The Course Banquet will be on Tuesday evening, starting at 7.15pm with a drinks reception in the JCR gardens (weather permitting, or JCR if weather is inclement).

There will be plenty of time for relaxation and opportunity to chat further with the Speakers in the evenings, when the College bar will be open.

Included in your course pack is your Certificate of Attendance, and also a Course Assessment Form. We would be very grateful if you would complete the assessment form as this helps us continually improve the course. Please place it in the box provided in the foyer of the Bernard Sunley Theatre before you leave.

A light breakfast will be served each morning in the foyer of the Bernard Sunley Theatre. Please be prompt for all meal times as service will only take place over the first 25 minutes of each break.

Residential delegates are asked to vacate their rooms and return their keys to the Porters' Lodge by 10am on the day of their departure. Effectively this means checking out after breakfast, before the first session. The Porters' have a luggage room where you can safely store your belongings and a porter is on duty for 24 hours.

We have done our best to accommodate everybody on the course according to the information we have been given. If there is anything we have over-looked, please do not hesitate to let us know via the Conference Office, located upstairs in the Bernard Sunley Building.

We look forward to meeting each of you during the next three days.

**Andrew J Pollard, Ronald De Groot, Ron Dagan, & Adam Finn**

# St Catherine's College

St. Catherine's College was founded in 1962 by Alan Bullock (Lord Bullock), although it has its origins in a non-collegiate Society which was established in 1868 as a means for the less well-off to study at Oxford. The College's motto - Nova et Vetera (the new and the old) - sums up its unique quality among Oxford colleges.

While taking much from the best traditions of Oxford, it succeeds in having a much less formal and more relaxed and friendly atmosphere than many other colleges. Designed by Danish architect Arne Jacobsen, the College has a traditional layout in quadrangle style with gardens. Its situation and architecture give a feeling of space and light and peace; it backs onto Merton's playing fields and the University Parks.

## History

The story of how St. Catherine's College, the only Oxford undergraduate college to be built since 1945, came into being, is a remarkable one. The achievement was inspired by its Founding Master, twentieth century historian Lord Bullock, who has seen St. Catherine's become, over the 43 years of its existence, one of the largest Oxford colleges.

From the outset, St. Catherine's has been characterised by innovation and a progressive outlook. The origins of the College lie in a unique initiative by which the University sought to open itself to 'a much larger and poorer class'. For centuries one of the fundamental requirements for entry to Oxford had been residence in a college or hall. The considerable expense of living within a college was, however, a bar to many students who were otherwise entirely able to meet the academic requirements. So in 1867, breaking with centuries of tradition, the University passed a statute by which the category of 'unattached student' was created and a Delegacy set up to oversee them.

These students could become members of the University without having to be members of a college, thus allowing them to live in less expensive lodgings in the city. Access was thus opened to a much wider section of society and numbers grew rapidly; 330 unattached students had been admitted by 1872. It is a testament to the success of this experiment that no less than three of its students went on to become Nobel prize-winning scientists. In 1884 the term 'unattached student' was abandoned in favour of 'non-collegiate student'. However, the students themselves were anything but non-collegiate and were determined to experience the richness of an Oxford education to the full. They formed themselves into a social club named the St Catharine's (sic) Club and it was under this name that they participated in inter-collegiate activities and sports. Unhappy at being defined by a negative term, they campaigned for a change in name, and in 1931 the Non-Collegiate Society became St. Catherine's Society. (The change in the spelling of Catherine came about in 1919, partly to make a distinction from St Catharine's College, Cambridge.)

The passage of the Education Act in 1944 coupled with the post-war introduction of grants, guaranteeing financial support for any student accepted by the University, removed much of the original purpose of the Society. In 1952, the year in which his book 'Hitler: A Study in Tyranny' was published, Alan Bullock was appointed Censor (Head) of St. Catherine's Society. He could see that if it was to continue to develop and expand, the Society would have to change and so in 1956 the Delegates took the momentous decision to transform the Society into a college. The University was persuaded to give its consent, and Alan Bullock began to look for a site and funding.

As befitted its pioneering origins, the new college was to be distinctive from the outset. One highly innovative decision was to admit equal numbers of science and arts students each year - recognising, ahead of many others, the vital role and fast-advancing world of science and technology. Much effort was spent in promoting the College to schools of all different types to attract the widest possible range of applicants. Even the buildings were to proclaim a new attitude, entirely in keeping with the spirit of the 1960s and looking to modernism rather than the past. The appointment of the Danish architect Arne Jacobsen aroused controversy and was seen by many, mistakenly, as a tacit condemnation of the British profession. However, his striking modernist design, characterised by strong geometry, has become one of the few post-war buildings in the country to be given grade 1 listed status and has matured to create a sophisticated and attractive environment.

When the College opened to its first students in October 1962 only a few buildings were ready for occupation and none of them were complete. The band of pioneers who endured the privations of that first term quickly became known as the 'Dirty Thirty', for obvious reasons! However, by the end of the academic year 150 undergraduates had taken up residence. The College grew steadily. In 1974 it became one of the first five colleges in Oxford to become mixed and by 1978 was the largest college within the University. While maintaining the conventional pattern of an Oxford college, the progressive outlook of St. Catherine's has resulted in the establishment of an institution which successfully marries tradition and innovation.

### **Why St Catherine?**

The club that became St. Catherine's Society took its name from its original meeting place, St Catharine's Hall, a house in Broad Street now forming part of Hertford College. However the connection with the saint is perhaps entirely appropriate for a college founded on an ethos of high academic standards combined with a doggedly independent streak.

Catherine was one of many women carried off from Alexandria by the Emperor Maxentius in 305. Maxentius brought fifty philosophers to convince her that her belief in Christianity was foolish but Catherine had studied in depth, and although aged only eighteen, confounded the arguments of the philosophers and ended up converting them. Maxentius had the philosophers put to death and Catherine imprisoned. However, when the Emperor's wife was also converted after visiting Catherine in prison, the Emperor decided that she had to die. A wheel set with razors was constructed and Catherine was tied to its rim, but instead of cutting her to pieces, the wheel broke and some of its splinters and razors injured the onlookers. Finally, Catherine was beheaded.

The College celebrates its patron saint each year with a special Catz Night dinner, attended by junior and senior members of the College, at the end of which a giant Catherine wheel is lit in the quad.

# Programme

| Monday 27 <sup>th</sup> June 2005 |                                                                                                    |                                                                                        |
|-----------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 8.00-9.00                         | <b>Breakfast and Registration</b>                                                                  |                                                                                        |
| 10.15-10.30                       | Welcome and Coffee                                                                                 | Adam Finn (UK) Ronald De Groot (Netherlands)<br>Ron Dagan (Israel) Andrew Pollard (UK) |
| 10.30-11.10                       | War, Infectious Disease and Poverty                                                                | Frank Shann, Australia                                                                 |
| 11.10-11.45                       | Future prospects for the drug treatment of malaria in children                                     | Nick White, Bangkok                                                                    |
| 11.45-12.20                       | How should we treat severe malaria in children?                                                    | Kath Maitland, Kenya                                                                   |
| 12.20-12.55                       | New Malaria vaccines                                                                               | Adrian Hill, UK                                                                        |
| 13.00-14.00                       | <b>Lunch followed by EVS tutorial and scoring of the morning speakers</b>                          |                                                                                        |
| 14.00-15.00                       | Infectious Disease Case Rounds – Chairman, Jonathan Carapetis, Australia                           | Shann, White, Maitland, Hotez, Bryceson                                                |
| 15.00-15.35                       | The most neglected diseases of children                                                            | Peter Hotez, USA                                                                       |
| 15.35-16.10                       | Leishmaniasis                                                                                      | Anthony Bryceson, UK                                                                   |
| 16.10-16.30                       | <b>Tea</b>                                                                                         |                                                                                        |
| 16.30-17.05                       | Ebola, Lassa and Hantavirus                                                                        | Nigel Curtis, Australia                                                                |
| 17.05-17.40                       | Rotavirus and the rationale for prevention                                                         | Roger Glass, USA                                                                       |
| 17.40                             | <b>Scoring of the afternoon speakers<br/>Free evening (no evening meal provided for delegates)</b> |                                                                                        |

| Tuesday 28 <sup>th</sup> June 2005 |                                                                                  |                               |
|------------------------------------|----------------------------------------------------------------------------------|-------------------------------|
| 7.30-8.30                          | <b>Breakfast</b>                                                                 |                               |
| 8.45-9.20                          | Development of the immune system in the neonate and infant                       | David Lewis USA               |
| 9.20-9.55                          | Controversies in management of neonatal sepsis                                   | Andrew Gennery, UK            |
| 9.55-10.30                         | Advances in the diagnosis of TB - outbreaks in neonates                          | Ajit Lalvani, UK              |
| 10.30-11.00                        | <b>Coffee</b>                                                                    |                               |
| 11.00-11.35                        | Chlamydial infections in children & adolescents                                  | Toni Darville, USA            |
| 11.35-12.10                        | The role of pre- and post-natal infection in chronic lung disease of prematurity | Sailesh Kotecha, UK           |
| 12.10-12.45                        | Catheter-related infections                                                      | Jonathan Carapetis, Australia |

| Tuesday afternoon |                                                        |                                    |
|-------------------|--------------------------------------------------------|------------------------------------|
| 12.45-13.55       | Lunch followed by scoring of morning session           |                                    |
| 13.55-15.00       | Infectious disease case rounds – Chairman Ron Dagan    | Lewis, Darville, Nachman, Yagupsky |
| 15.00-15.35       | Pathogenesis of pneumococcal infection                 | Tim Mitchell, UK                   |
| 15.35-16.10       | Diagnosis and prevention of pneumococcal infection     | Hanna Nohynek, Finland             |
| 16.10-16.40       | Tea                                                    |                                    |
| 16.40-17.15       | Rational antibiotic treatment of pneumonia in children | Keith English, USA                 |
| 17.15-17.50       | New antibiotics for Gram positive infections           | John Bradley, USA                  |
| 17.50-18.25       | Management Issues for HIV Infected Children            | Diana Gibb, UK                     |
| 18.25             | Scoring of today's speakers                            |                                    |
| 19.15             | Reception followed by Banquet Dinner                   |                                    |

| Wednesday 29 <sup>th</sup> June 2005 |                                                                     |                                              |
|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------|
| 7.30-8.15                            | Breakfast                                                           |                                              |
| 8.30-9.05                            | Heterologous effects of vaccines                                    | Frank Shann, Australia                       |
| 9.05-9.40                            | Non-tuberculous mycobacterial infection                             | Rob Heyderman, UK                            |
| 9.40-10.15                           | <i>Kingella kingae</i> : an emerging paediatric pathogen            | Pablo Yagupsky, Israel.                      |
| 10.15-10.35                          | Coffee                                                              |                                              |
| 10.35-11.10                          | How to treat acute musculoskeletal infections in children           | Nico Hartwig, The Netherlands                |
| 11.10-11.45                          | Antibiotic prophylaxis for urinary tract infections - does it work? | Jonathan Carapetis, Australia                |
| 11.45-12.20                          | Prevention of HIV transmission to children in Africa                | HM Coovadia, South Africa                    |
| 12.20-12.55                          | Practical aspects of ART in children                                | Sam Walters, UK                              |
| 12.55-13.55                          | Scoring of the morning session followed by Lunch                    |                                              |
| 13.55-15.00                          | Infectious Disease Case rounds – Chairman Nigel Curtis              | Coovadia, De Groot, Glass, Hartwig, Walters  |
| 15.00-15.35                          | Antibiotics for childhood otitis media: overused and confused?      | Paul Glasziou, UK                            |
| 15.35-16.05                          | Otitis media management debate                                      | Glasziou, Dagan, Hartwig, English, Carapetis |
| 16.05-16.15                          | Scoring of afternoon session<br>Concluding remarks and close        |                                              |

# Speakers Biographies



**John S. Bradley, MD** is the Director, Division of Infectious Diseases, Children's Hospital San Diego, and Associate Professor of Pediatrics, University of California, San Diego. Following his pediatric infectious diseases fellowship at Stanford University, his focus has been on anti-infective therapeutics for the past 25 years. He has been involved in phase 1 through phase 4 development of antibiotics, antifungals and antivirals. He serves on the Committee on Infectious Diseases for the American Academy of Pediatrics, the US Food and Drug Administration's Anti-Infective Drug Advisory Committee, the IDSA Task Force on Antimicrobial Drug Availability, and is an external consultant for the NIH Bacteriology and Mycosis Study Group. He is the editor of Nelson's Pocket Book of Pediatric Antimicrobial Therapy.

**Anthony Bryceson** is emeritus professor of tropical medicine at the London School of Hygiene and Tropical Medicine, and was consultant physician at the Hospital for Tropical Diseases from 1974 to 2000. He has worked in Laos, Ethiopia, Nigeria and Kenya. His research interests have been mainly in leishmaniasis, particularly its treatment. Now he is medical consultant to LEPR and continues to work with the TDR Programme of WHO on the development of drugs for leishmaniasis.



**Jonathan R Carapetis, FRACP FAFPHM PhD**, is Associate Professor and Director of the Centre for International Child Health in the University of Melbourne Department of Paediatrics. He is a consultant in paediatric infectious diseases at the Royal Children's Hospital, Melbourne, and Research Fellow at the Murdoch Childrens Research Institute. He trained in paediatrics in Melbourne, undertook doctoral studies in Darwin and furthered his paediatric infectious diseases training at the Hospital for Sick Children, Toronto, before returning to Melbourne in 1999. His major research interests are in group A streptococcal diseases, particularly the public health and clinical aspects of rheumatic fever and rheumatic heart disease, and alternative regimens of pneumococcal vaccines in developing countries.

**Professor Hoosen (Jerry) Coovadia** - MBBS FCP Paediatrics, MSc in Immunology, MD - formerly Professor and Head of the University of Natal's Department of Paediatrics and Child Health, is currently the first incumbent of the Victor Daitz Foundation Chair in HIV/AIDS Research, and the Scientific Director of the Doris Duke Medical Research Institute at University's Nelson R Mandela School of Medicine. As a distinguished academic whose primary fields of expertise are Paediatric Nephrology, Infectious Diseases and Nutritional Diseases, he has published prolifically, leads a range of research programmes, advisory groups and development trusts, and is involved in numerous multidisciplinary activities, development initiatives (e.g. poverty alleviation) and health policy formulation. A Fellow of the University of Natal and holder of an Honorary Doctorate (DSc) from the University of Durban-Westville and the University of Witwatersrand, he has been the recipient of a number of prestigious awards.



**NIGEL CURTIS, FRCPCH PhD**, is Associate Professor in the Department of Paediatrics at the University of Melbourne; Head of the Paediatric Infectious Diseases Unit in the Department of General Medicine at the Royal Children's Hospital Melbourne; and Joint Head of the Staphylococcal and Streptococcal Research Group in the Murdoch Children's Research Institute. He obtained his medical degree at Cambridge University and St Mary's Hospital Medical School, University of London and trained in Paediatric Infectious Diseases in the Department of Paediatrics at Imperial College School of Medicine at St Mary's, London and British Columbia's Children's Hospital in Vancouver. Current research activities include the investigation of host-pathogen interactions in severe staphylococcal and streptococcal disease, particularly superantigen-mediated diseases, and DNA microarray-based studies of gene expression in acute rheumatic fever and tuberculosis.



**Ron Dagan, MD**, is Professor of Pediatrics and Infectious Diseases at the Ben-Gurion University of the Negev in Beer-Sheva, Israel, and Director of the Pediatric Infectious Disease Unit at the Soroka University Medical Center. His work focuses on new conjugate vaccines, with an emphasis on pneumococcal conjugate vaccines; the epidemiology of vaccine preventable diseases, clinical aspects of vaccination against antibiotic-resistant pneumococci; the pathology of otitis media, role of resistant organisms in otitis media; and prediction of bacteriologic response to various antibiotics; and the epidemiology and prevention of enteric and invasive infections in young children. He has authored or coauthored over 300 peer-reviewed articles as well as many book chapters. He is also an international editor for the PID Journal, and is on the editorial board of the Journal of Infectious Diseases, Infection, Human Vaccines and the Israel Journal of Pediatrics. He is currently the president of ESPID. He is also a fellow of the Infectious Diseases Society of America and a founding member of the World Society of Pediatric Infectious Diseases.

**Toni Darville, M.D.** is a Professor of Pediatrics and Microbiology and Immunology in the College of Medicine at the University of Arkansas for Medical Sciences. She is the Pediatric Infectious Diseases fellowship program director and the Director of the Pediatric HIV clinic at Arkansas Children's Hospital, UAMS. She obtained her medical degree at the University of Arkansas for Medical Sciences. Current research activities include evaluation of the immunopathogenesis of genital tract disease due to Chlamydia trachomatis, including studies of the innate immune response and the role of apoptosis in the outcome to infection with this intracellular pathogen. She has published many articles and book chapters related to her animal model studies on chlamydial genital tract disease pathogenesis, as well as a variety of clinical pediatric infectious disease topics. She serves as a Clinical Pediatric Infectious Diseases specialist, is an active bench researcher, and educator of medical students, fellows, graduate students and post-doctoral fellows.



**B. Keith English, M.D.**, is Professor of Pediatrics at the University of Tennessee Health Science Center and Chief of the Division of Pediatric Infectious Diseases at Le Bonheur Children's Medical Center in Memphis. He obtained his medical degree from the Baylor College of Medicine in Houston, completed his residency in Pediatrics at Baylor College of Medicine and then trained in Pediatric Infectious Diseases at Children's Hospital Medical Center and the University of Washington in Seattle. His research has been funded by the National Institutes of Health, the American Heart Association and the Children's Foundation Research Center of Le Bonheur Children's Medical Center and focuses on the intracellular signaling pathways that mediate macrophage activation by bacteria and bacterial products (LPS, CpG DNA) and on the effects of different classes of antibiotics on macrophage responses to bacteria. He is an active member of the Society for Pediatric Research (SPR) and the Southern Society for Pediatric Research (SSPR) and has recently served as Councilor, Secretary-Treasurer, and then President of the SSPR.



Ronald de Groot studied medicine in Rotterdam and after his residency was Senior Medical Officer in Zonkwa Hospital, Nigeria. He subsequently did his pediatric training in Rotterdam and pediatric infectious diseases in the University of Washington, Seattle, USA. In 1988 he returned to the Erasmus University in Rotterdam and obtained a PhD 1991. In 1998 he became head of the training program and Professor in Pediatric Infectious Diseases and Immunology. He is a member of the Dutch Health Council (vaccines, AIDS, hepatitis B, meningococcal and pneumococcal infections), chairman of the Dutch Society of Pediatrics and member of a large number of national and international advisory committees. He is statutory director of Vaxinostics BV, a vaccine company. He leads a large research group including 11 graduate students. His research activities cover several themes including the study of respiratory tract infections, the molecular pathogenesis of infections by *S. pneumoniae*, *Neisseria meningitidis* and HIV and clinical and translational research in children with immunodeficiencies.

**ADAM FINN, FRCP FRCPCH PhD**, is David Baum Professor of Paediatrics, University of Bristol and Honorary Consultant in Paediatric Immunology and Infectious Diseases at Bristol Royal Hospital for Children, UK. He obtained his medical degree at the University of Oxford Medical School, following a degree in Medical Sciences and History of Art at Cambridge University. He trained in paediatric infectious diseases at the Children's Hospital of Philadelphia, USA and in immunology at the Institute of Child Health and Great Ormond St. Hospital in London. He was formerly a consultant senior lecturer in Sheffield where he directed the Sheffield Institute for Vaccine Studies. Current research activities include translational and laboratory studies into mucosal immune responses to pneumococci and candidate pneumococcal vaccines.



**ANDREW R GENNERY, MRCPCH, MD**, is a Clinical Senior Lecturer in Paediatric Immunology and Bone Marrow Transplantation at the University of Newcastle upon Tyne, and honorary consultant in Paediatric Immunology and Bone Marrow Transplantation at the Newcastle upon Tyne NHS Trust, Newcastle upon Tyne, UK. He obtained his medical degree at Sheffield University and trained in Paediatric Immunology in the UK, and at the Necker Hospital in Paris. Current research interests include DNA repair defects and primary immunodeficiency, immunodeficiency associated with polysaccharide antigens and immune reconstitution post BMT for primary immunodeficiency. His publications include over 50 manuscripts and book chapters on various aspects of primary immunodeficiency.

**ROGER I GLASS, M.D, Ph.D.**, is Chief of the Viral Gastroenteritis Section at the Centers for Disease Control and a Research Professor of Pediatrics at the Emory University School of Medicine and an adjunct Professor of International Health at the Rollins School of Public Health at Emory. He obtained his undergraduate, public health and medical degrees at Harvard University and his Ph.D in medical microbiology at the University of Goteborg in Sweden. His current research interests are with the epidemiology of enteric diseases and vaccines with special emphasis on rotaviruses. He is a consultant to WHO, UNICEF, the Rotavirus Vaccine Program of GAVI, and a member of the Institute of Medicine of the U.S. National Academies of Science. His publications include over 400 articles and chapters focused on pediatric infectious diseases, foodborne illness, and vaccine preventable diseases.





**DIANA GIBB**, A graduate from Bristol Medical School, is a Reader in Epidemiology at Medical Research Council Clinical Trials Unit and Honorary Consultant Paediatrician at Great Ormond Street Hospital for Children NHS Trust. She started working in paediatrics in Melbourne, Australia, and then worked with Tibetan refugees in India before returning to UK, where she did further training at GOS and LSHTM before joining the Department of Paediatric Epidemiology at Institute of Child Health. In 1991 she set up the first HIV family clinic and since then has continued research and clinical work in paediatric HIV at the MRC HIV Clinical Trials Unit in London. She played a major role in setting up 'Paediatric European Network for Treatment of AIDS' PENTA, in 1991, the UK and Irish Children with HIV Collaborative Study (CHIPS) cohort and cohort collaborations with Europe and US in 2000. She is co-principle investigator in the first large adult clinical trial of antiretroviral therapy in Africa, DART, which is evaluating ways of delivering therapy in resource-poor settings and is planning a follow-up study for children. She coordinated the Children with HIV Antibiotic Prophylaxis (CHAP) Trial in Zambia, the results of which showed durable benefit of cotrimoxazole prophylaxis in HIV-infected Africa children and were published in the Lancet in November 2004.

Paul Glasziou FRACGP, PhD is the Professor of Evidence-Based Medicine and Director of the Centre for Evidence-Based Medicine in the Department of Primary Health Care at the University of Oxford. He also works part-time in general practice. He has worked for many years in developing evidence-based practice, including teaching evidence-based practice to medical and postgraduate students, running regular workshops for other health care workers, editing the BMJ's Journal of Evidence-Based Medicine, and chairing of the Cochrane Collaboration's Methods group on Applicability & Recommendations. He is a member of the management committee of several of Australia's largest clinical trials (LIPID, FIELD, and ADVANCE), among over 100 research papers has published Cochrane Reviews in colorectal cancer screening, acute otitis media, pharyngitis, autoinflation, and tonsillectomy. He has also published three books.

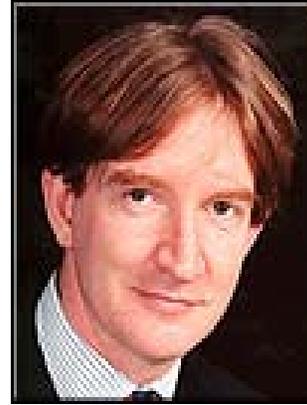


**Nico G Hartwig, MD PhD**, is pediatric infectiologist at the ErasmusMC-Sophia Childrens Hospital in Rotterdam, The Netherlands. Since May 1st he is head of the subdivision pediatric infectious diseases and immunology. He obtained his medical degree at the University of Amsterdam, prepared his thesis at the University of Leiden and followed his pediatric and pediatric infectious diseases training at the ErasmusMC in Rotterdam. Current research topics are HIV infection, primary immunodeficiencies and chronic or persistent respiratory tract infections. Additionally he is teacher in medical curriculum of the ErasmusMC.

**ROBERT S HEYDERMAN, PhD FRCP DTM&H**, is at the University of Bristol, and Consultant Infectious Diseases Physician at the United Bristol Healthcare NHS Trust and Bristol HPA Laboratory, UK. He obtained his medical degree at St George's Hospital Medical School, University of London and trained in Infectious Diseases and General Internal Medicine in London, UK and Harare, Zimbabwe. Current research focuses on the coagulopathy and endothelial biology of severe sepsis; the regulation of the host inflammatory response; patterns of meningococcal gene expression in vitro and in vivo; mucosal immunity to *Neisseria meningitidis* and *Streptococcus pneumoniae*; mucosal vaccination for the prevention of pneumonia and meningitis; and to improving the clinical diagnosis and management of meningitis and septicaemia.



ADRIAN V S Hill, DM DPhil, is Professor of Human Genetics, a Wellcome Trust Principal Fellow and interim director of the Jenner Institute at Oxford University. He obtained his medical degree at Oxford in 1982 and was elected FRCP and Fellow of the Academy of Medical Sciences in 1999. His research group investigates genetic susceptibility to major infectious diseases at the Wellcome Trust Centre for Human Genetics and develops vaccines for malaria and tuberculosis there and at the university's Centre for Clinical Vaccinology and Tropical Medicine. Field trials of vaccines developed by his group are in progress in several African countries. His publications include over 250 manuscripts and books on various topics in evolutionary genetics, genetic susceptibility to infectious diseases, immunology of infectious diseases and vaccine development.



**Peter Hotez** is Professor and Chair of the Department of Microbiology and Tropical Medicine at The George Washington University, where his major research and academic interest is in the area of vaccine development for parasitic and tropical diseases, and the role of vaccines in international diplomacy. Dr. Hotez is the Principal Investigator of The Human Hookworm Vaccine Initiative from the Bill & Melinda Gates Foundation to develop a recombinant vaccine for hookworm-induced malnutrition and anemia.

**SAILESH KOTECHA MA FRCPCH PhD** is Professor of Paediatrics and Child Health at Cardiff University since March 2005 and is due to take up Headship of the Department of Child Health at the University from July 2005. He is also Honorary Consultant Neonatologist at the University Hospitals of Wales. His research interests are in the pathogenesis of chronic lung disease of prematurity including the role of antenatal infection in its development. Current research activities include the role of neutrophil apoptosis in the development of CLD and if alpha1 anti-trypsin can prevent the development of CLD.



**Ajit Lalvani** is Wellcome Senior Clinical Research Fellow and Honorary Consultant Physician in Infectious Diseases & General Medicine at the Nuffield Dept of Clinical Medicine, University of Oxford. His research focus is the human cellular immune response to *Mycobacterium tuberculosis* in tuberculosis patients and exposed contacts. He has developed and validated a rapid T cell-based blood test for diagnosing TB infection.

David Lewis is an Associate Professor of Pediatrics and member of the Immunology Program at Stanford University School of Medicine. His major interest is in the developmental immunology of T cells as well as genetic immunodeficiencies that impact on T cell development or function. Recent studies have focused on viral-specific immune responses in young children compared to adults.



**TIM J MITCHELL, Bsc, PhD, FRCPath** holds the Chair of Microbiology at the University of Glasgow. He obtained his PhD at the University of Birmingham and was a Wellcome Trust traveling research Fellow at Erasmus University, The Netherlands. He was awarded a Royal Society University Research Fellowship prior to his appointment at Glasgow. Current research interests include studies of molecular pathogenesis of bacterial infections, host response to infection, genetic regulation of bacterial virulence and development of new vaccines against bacterial infections.



**Kath Maitland MRCP, PhD** entered science in 1991 co-managing a project of field-based longitudinal epidemiology studies on the Pacific islands of Vanuatu to examine host protection offered by thalassaemia to malaria. In 2000 she completed a Phd in epidemiology and undertook a lectureship in tropical paediatrics at Imperial College, London. In the five years at the Wellcome Trust/KEMRI unit in Kilifi she has used modern methods to study critical illness physiology providing a better understanding of the physiological disturbances in children with severe malaria. These have led to the design of multi-centre studies.

**Sharon A. Nachman, M.D.FAAP**, is a Professor of Pediatrics at the State University of New York School of Medicine at Stony Brook, NY. She is the Division Chief of Pediatric Infectious Diseases at the school and is also the Chair of the Complications Research Agenda Committee of the Pediatric AIDS Clinical Trail Group funded by the National Institutes of Health. Her training includes a residency in pediatrics, a fellowship in Pediatric Infectious Diseases as well as post doctoral fellowship at the Rockefeller University in New York. Her current research activities include developing clinical trials for investigations of Pediatric HIV, vaccines for children and pathogens of interest to international health providers. Her publications include over 100 manuscripts and book chapters on topics of interest to clinicians and pediatric infectious disease physicians worldwide.



**Hanna Nohynek** completed her medical studies in Helsinki, Finland, and is presently working at the Department of Vaccines for the National Public Health Institute as a Senior Scientist. She is the scientific project coordinator of the ARIVAC trial, a phase III effectiveness study of an 11-valent pneumococcal conjugate vaccine against childhood pneumonia being conducted by the international ARIVAC consortium on the island of Bohol in the Philippines. She did her PhD work on the serodiagnosis of childhood pneumonia, which she has studied in Finland, Russia, and the Philippines. She has coordinated 6 phase II trials on a number of vaccines (*Haemophilus influenzae* type b, meningococcal conjugate, and pneumococcal conjugate among infants, and pneumococcal polysaccharide among pregnant mothers and infants). Her present research interests are in measurement of acute respiratory infection disease burden, Hib, pneumococcal and meningococcal conjugate vaccines, herd immunity, decision making and evidence based implementation of new vaccines into national programmes, cost evaluation of vaccines as well as bioethics related to clinical trials.

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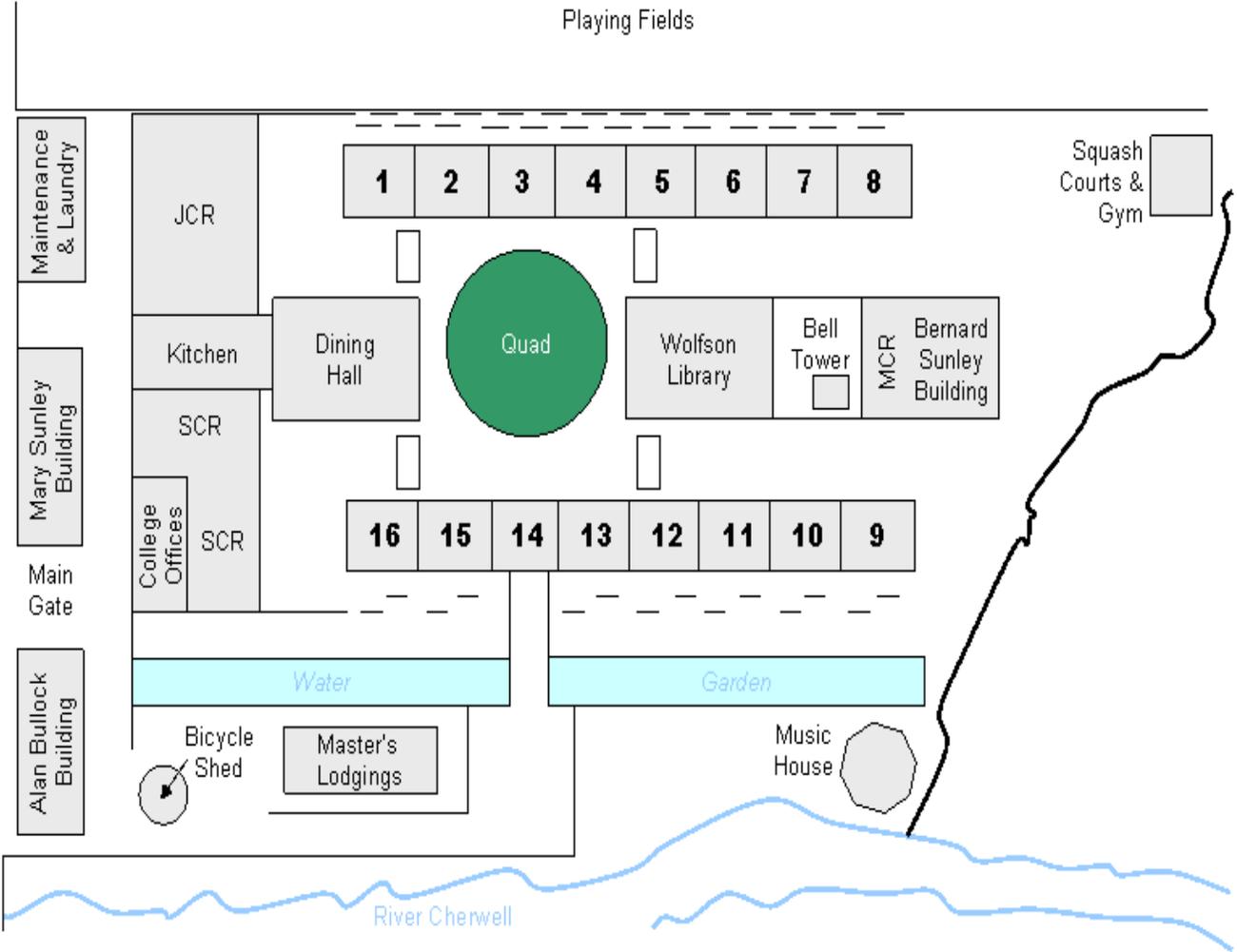
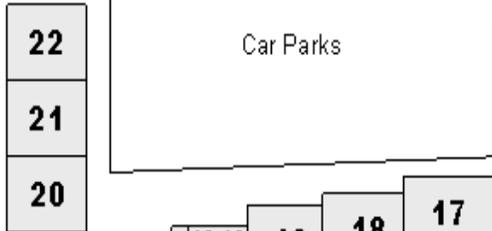
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Infection and Immunity  
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In it's fourth year, this successful annual event is a topical course covering subjects in paediatric infection for Paediatric Infectious Diseases trainees and trainers and for all those who manage children with infections.

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