

# Guest lecturer program

The guest lecturer program has been organised by a post-doc committee with representatives from all the research groups at CIR. The committee has invited high ranked international researchers to come to Oslo to stay with our centre one or two days to interact with researchers at the centre and give a public guest lecture. The result is a long visitor list of thirty researchers from excellent research institutions all over the world. Their knowledge and expertise has contributed strongly to shape the research at CIR, and several collaborative projects and researcher exchange have been initiated as a result of these visits.

## Committee members 2007–2017

Jan Terje Andersen • Espen Bækkevold • Sudhir Kuman Chauhan • Elena Danilova • Roberto DiNiro • Even Fossum • Dominik Michael Frei • Ramakrishna Gopalakrishnan • Tone F. Gregers • Lisa M. Gruber • Kristin S. Gunnarsen • Peter Huszthy • Johanne T. Jacobsen • Ole J.B. Landsverk • Maria H. Lexberg • Nadia Mensali • Cinzia Progida • Shuo-Wang Qiao • Charlotta Sandin • Omri Snir • Peter Szodoray • Inger Øynebråten

## Guest lectures

**Arne Akbar**, University College London, UK

*Defective T Cell Immunosurveillance During Ageing*

**Mats Bemark**, University of Gothenburg, Sweden

*Beyond the bone marrow – defining peripheral B cell differentiation*

**Andrea Cerutti**, Mount Sinai School of Medicine, US  
*Class switching at the mucosal interface*

**Matthew Collin**, Newcastle University, UK

*Human dendritic cells in health and disease*

**Simon J. Draper**, University of Oxford, UK

*Development of broadly-neutralising vaccines against the blood-stage infection of human malaria*

**Deborah Dunn-Walters**, King's College London, UK  
*Spectratype and High Throughput Sequencing analysis of B cell repertoire*

**Michael Dustin**, Oxford University, Kennedy Institute of Rheumatology, UK

*T cell signal integration and decision making based on synapses and kinapses*

**Zoltan Fehervari**, Nature Publishing Group, US  
*How to get published: the agony and the ecstasy*

**Frederic Geissmann**, King's College London, UK  
*Differentiation and functions of monocyte/macrophages*

**Rajesh Grover**, The Scripps Research Institute, California, US

*A Battle for Survival: Chronic Bacterial Infections – Unexpected Consequences and B Cell Lymphoma and Myeloma – Bacterial Origins?*

**Marc K. Jenkins**, University of Minnesota, US

*The CD4+ T cell response to bacterial infection*

**Steffen Jung**, Weizmann Institute of Science, Israel

*Macrophages – development & tissue specialisation*

**Ludger Klein**, Ludwig Maximilians Universität München, Germany

*Shaping of the CD4 T cell repertoire by a self-antigen of the central nervous system*

**Thomas Seth Kupper**, Harvard Medical School, US

*T cell memory: new insights*

**Ralf Küppers**, University of Duisburg-Essen, Germany

*Generation and function of human memory B cells and aspects of CLL pathogenesis*

**Ana-Maria Lennon-Duménil**, Institut Curie, France

*Coordinating cell migration with function: the example of dendritic cells*

**Vivianne Malmström**, Karolinska University hospital, Sweden

*Dissecting autoimmunity - T and B cell responses in Rheumatoid Arthritis*

**Eric Mefre**, Yale University, US

*The establishment of B cell tolerance: of humanized mice and men and Self-reactive VH4-34 IgG systemic responses and gut homeostasis defects*

**Lill Mårtensson-Bopp**, University of Gothenburg, Sweden

*Autoreactive B cells; a road to autoimmune disease?*

**Oliver Pabst**, Hannover Medical School, Germany

*Dynamics of the IgA response*

**Roberta Pelanda**, National Jewish Health and University of Colorado Denver School of Medicine, US

*Click your heels: you are in the land of B cells*

**Shimon Sakaguchi**, Osaka University, Japan

*Molecular basis of regulatory T cell development and their functional stability*

**Bernd Schröder**, Christian-Albrechts-University of Kiel, Germany

*SPPL intramembrane proteases – How they control immune cell development and function*

**Michael Sieweke**, Centre d'Immunologie de Marseille-Luminy, France

*Beyond stem cells : Marophage self renewal and identity*

**Caetano Reis e Sousa**, The Francis Crick Institute, UK

*A DaNGeRous talk about dendritic cells*

**Sarah Teichmann**, EMBL European Bioinformatics Institute & WT Sanger Institute, UK

*Understanding cellular heterogeneity*

**Gabriel D. Vitoria**, Whitehead Institute for Biomedical Research, US

*Darwin in miniature: antibody evolution in germinal centers*

**Hedda Wardemann**, Deutsches Krebsforschungszentrum, Germany

*The B cell antibody repertoire in health and disease*

**Patrick C. Wilson**, University of Chicago, US

*Human antibody responses*

**Gur Yaari**, Bar-Ilan University, Israel

*Mining B cell repertoire dynamics from next-generation sequencing studies*

## SEMINAR

### “Transition from academia to industry”

The postdoc committee has also arranged a seminar with national speakers who have either performed a successful transfer from academia to industry or are involved in the transition process.

**Øystein Rekdal**, CSO, Lytix Biopharma, Oslo

*From bench to bedside with a first in class oncolytic peptide*

**Geir Åge Loset**, CSO, Nextera, Oslo

*Basic research and industrial translation – the ultimate blend*

**Agnete Fredriksen**, CSO, Vaccibody, Oslo

*From PhD to CSO in Clinical stage Biotech Company – my experience from Vaccibody*

**André Borka**, Head hunter, Borka Consulting, Oslo

*(Work)Life after PhD within the pharmaceutical industry, medical technical equipment and life science. Advice on LinkedIn, CVs and job applications*

**Ana Kucera**, Regional Sales Manager Carl Zeiss AS, Oslo

*From PhD to industry: the pros and cons and the process behind*

# Guest lectures

## by visiting professors and other guests

CIR has arranged an extensive number of seminars, symposiums and lectures with external international and national speakers, open for the whole scientific environment in Oslo. Some of the events have been arranged in collaboration with other research centres in Oslo and the Norwegian Society of Immunology. External speakers have also been invited to our seven CIR retreats. In total, including the guests invited by the postdoc committee, more than 100 different speakers have contributed to activities initiated by the centre. Centre members have also contributed with a multitude of lectures at the seminars and symposiums.

## External speakers and lectures 2007–2017

**William Agace**, University of Lund, Sweden

*Intestinal Dendritic cells, retinoic acid, and their role in the regulation of intestinal T cell responses*

**Maria Therese Ahlen**, The Arctic University of Norway

*Fighting FNAIT – murine models and antibody prophylaxis*

**Paul Antony**, University of Maryland, School of Medicine, US

*Restoring immune function of tumor associated antigen specific CD4 T cells during recurrence of melanoma*

**David Artis**, University of Pennsylvania, US

*Mechanisms of immunoregulation at barrier surfaces*

**Richard Blumberg**, Harvard Medical School, US

*Endoplasmic Reticulum Stress and Intestinal Inflammation*

*Regulation of Lymphocyte Function by Carcinoembryonic Antigen Adhesion Molecule 1: Implications for Inflammation and Cancer*

*The immunobiology of the (not so) neonatal Fc receptor (FcRn) for IgG in antigen presentation*

*IBD pathogenesis*

**Juan Bonifacio**, NIH, US

*Mechanisms of CD4 Down-regulation by the Nef protein of HIV-1*

**Maria Bottermann**, MRC Laboratory of Molecular Biology, UK

*Adenoviral gene delivery is inhibited by sequential complement-mediated virion inactivation and TRIM21 neutralization*

**Soren Buus**, University of Copenhagen, Denmark

*Development of pan-specific HLA class I predictors and large scale HLA tetramer capabilities*

*Analysis of the specificity of human T cell responses*

*Drug hypersensitivity caused by alteration of the MHC-presented self-peptide repertoire*

**Harald Carlsen**, University of Oslo

*Optical imaging of gene regulation in living mice*

**Hyun-Dong Chang**, Deutsches Rheuma-Forschungszentrum Berlin, a Leibniz Institute, Germany  
*Adaptation of proinflammatory Th lymphocytes to chronic inflammation*

**Yueh-hsiu Chien**, Stanford University, US

*Gamma Delta T cells: First line of Defense and Beyond*

**Peter Cresswell**, Yale School of Medicine, US

*Viperin: an interferon-inducible metabolic regulator co-opted by human cytomegalovirus*

**Mark M. Davis**, Stanford University, CA, US

*Systems immunology and its application to human beings*  
*Molecular Aspects of T cell recognition and applications to human responses*

*Immunology Taught by Humans*

**Sigbjorn Fossum**, University of Oslo

*The role of APLEC receptors in adjuvant induced arthritis*

**Johan Garssen**, University of Utrecht and Danone Research Centre for Specialised Nutrition, The Netherlands

*Immunomodulation by dietary intervention: the cutting edge between food and pharma*

**Marcos González-Gaitán**, University of Geneva, Switzerland

*Sara endosomes during asymmetric cell division*

**Gareth Griffiths**, University of Oslo

*Development of biodegradable nanoparticles enclosing antibiotics against Mycobacterium tuberculosis in macrophages and in a zebrafish model system*

**Thorvald van Hall**, Leiden University Medical Center, the Netherlands  
*Tumors with processing defects display novel tumor antigens via the non-classical HLA-E*

**Kristian Hannestad**, Oslo University Hospital

*Anti-nucleosomal antibodies in a mouse model for SLE*

**Adrian Hayday**, King's College London, UK

*The dominant role of body surface epithelia in shaping local T cell immunity*

**Dag O. Hessen**, University of Oslo

*The Red Queen principle in nature and culture*

**Mark Hogarth**, Burnet Institute, Australia

*Antibody and Fc-receptor interactions in humans and other primates. Implications for the development of vaccines, therapeutic antibodies and the induction of inflammation*

**Trygve Holmøy**, Oslo University Hospital

*The immunology of multiple sclerosis*

**Patrick Holt**, Telethon Institute for Child Health Research in Perth, Australia

*Interactions between innate and adaptive immunity in asthma pathogenesis: new perspectives from studies on acute exacerbations*

*Treg-mediated control of IgE-mediated acute phase responses??*

**Bana Jabri**, University of Chicago, US

*Host, environment and microbes, a love-hate triangle*

*Intraepithelial lymphocytes at the frontier of adaptive and innate immunity*

*Tissue control of effector responses*

*From human to mouse: Reverse engineering of a mouse model for CD*

**Kjetill S. Jacobsen**, University of Oslo

*Genome sequence of Atlantic cod reveals a unique immune system through the loss of MHC II function*

**Jørgen Jahnsen**, Aker University Hospital

*Treatment goals for IBD*

**Sirpa Jalkanen**, University of Turku, Finland

*Homing associated molecules as targets to prevent cancer growth and spread*

**Leo James**, MRC Laboratory of Molecular Biology, UK

*Intracellular Antibody Immunity and the Cytosolic Fc Receptor TRIM21*

*Intracellular Immunity: targeting and neutralizing viruses inside infected cells*

**Mark Jenkins**, University of Minnesota, US

*The CD4+ T cell response to bacterial infection*

**Imre Kacs Kovics**, Eötvös Loránd University, Hungary

*Accelerating antibody discovery using transgenic animals overexpressing the neonatal Fc receptor as a result of augmented humoral immunity*

**Frits Koning**, Leiden University Medical Centre, The Netherlands

*Gluten-specific T cells cross-react between HLA-DQ8 and the Type-1 diabetes-associated HLA-DQ2 /DQ8 transdimer*

**Christian Kurts**, University of Bonn, Switzerland

*Signal o chemokines enhance cross priming of cytotoxic T cells*

**Olivier Lantz**, Institut Curie, France  
*MAIT cells, an evolutionarily conserved T cell subset with anti-bacterial reactivity*

**Antonio Lanzavecchia**, Institute for Research in Biomedicine, Switzerland

*Dissecting the human antibody response to pathogens and self antigens*

**Jeanette Leusen**, University Medical Center Utrecht, Netherland,  
*Inside-out regulation of Fc receptors; consequences for antibody therapy of cancer*

**Sten Linnarsson**, Karolinska Institutet, Stockholm, Sweden  
*Unbiased cell-type discovery using large-scale single-cell RNA-seq*

**Eric O. Long**, National Institute of Allergy and Infectious Diseases, National Institutes of Health, US

*Regulation of NK cell activation*

**Annalisa Macagno**, Institute for Research in Biomedicine, Switzerland

*Analytic vaccinology and human cytomegalovirus infection: from humoral immunity to vaccine design*

**Inger Helene Madshus**, University of Oslo

*Endocytic downregulation of ErbB proteins*

**Bernard Malissen**, Centre d'Immunologie de Marseille-Luminy (CIML), France

*Integrative biology of T cell activation and Harnessing skin dendritic cells*

**Luisa Mearin**, Leiden University Medical Center, The Netherlands  
*Prevention of coeliac disease: Report from an ongoing pediatric trial*

**Jenny Mjösberg**, Karolinska Institutet, Sweden

*Heterogeneity and plasticity of innate lymphoid cells in tissue homeostasis and inflammation*

**Allan Mowat**, University of Glasgow, UK

*Local control of dendritic cell and macrophage heterogeneity in intestinal homeostasis and inflammation*

**Jacques Neefjes**, Netherlands Cancer Institute, The Netherlands  
*How Salmonella causes cancer and the epidemics of gallbladder carcinoma in India*

*A Genome-wide multidimensional siRNA screen to reveal pathways controlling MHC class II antigen presentation*

*High throughput analysis of MHC class II antigen presentation and how to make sense of it*

*A science career? Smart moves?*

*Biophysical techniques used to define how cholesterol controls the positioning of late endosomes and how motor proteins do the job*

**David Nemazee**, The Scripps Research Institute, US

*Novel phospholipase family proteins in innate immunity*

*B cell tolerance : Genetics and vaccinology*

**Johanna Oliveus**, Oslo University Hospital

*Manipulating dendritic cells to tease out cancer-targeted T cells*

**Petra Paul**, the Netherlands Cancer Institute, The Netherlands

*The MHC class II pathway of antigen presentation: A genome-wide screen and what comes after*

**Gori Perminov**, Ahus University Hospital

*Mucosal macrophages and regulatory T cells in pediatric IBD*

**Susan K. Pierce**, National Institute of Allergy and Infectious Diseases, National Institutes of Health, US

*The acquisition of immunity in malaria*

*Regulating the initiation of antigen-driven B cell responses*

*A Tale of a Tail Wagging the Dog. On the generation, maintenance and activation of memory B cells*

*Borrowing from Peter to Pay Paul: Why Immunity to Malaria is so Slow to be Acquired*

**Philippe Pierre**, Centre d'Immunologie de Marseille-Luminy (CIML), France

*A role for the ER stress pathways in dsRNA innate responses*

**Hidde Ploegh**, Whitehead Institute for Biomedical Research, US

*Interplay between immunity and infectious agents*

**Fiona Powrie**, University of Oxford, UK

*Host microbial interactions in the intestine and their breakdown in inflammatory bowel disease*

*Gut reactions: Immune pathways in the intestine in health and disease*

*The IL-23 axis and intestinal inflammation*

*Regulatory mechanisms that control intestinal homeostasis*

**Gwendalyn Randolph**, Washington University School of Medicine, US

*Lymphatic transport and chronic inflammatory disease*

*Exploring mononuclear phagocytes in mouse and man*

**Jeffrey V. Ravetch**, The Rockefeller University, New York, US

*Novel roles for IgG glycans*

**Maria Rescigno**, European Institute of Oncology in Milan, Italy

*Bacteria as anticancer agents and Probiotics: friends or foes?*

*Dendritic cells in the gut: directors or players of the immune response?*

*Dendritic cell-epithelial cell cross-talk in bacterial handling in the gut*

*2-photon imaging to visualize dendritic cells in the gut*

**Mark Shlomchik**, University of Pittsburgh, US

*NETworks in Lupus: T-B or not T-B, DC is the question*

*Germinal Center Selection and the Development of Memory B and Plasma Cells*

*How does autoimmunity get started? Mechanistic and therapeutic implications*

*Development and Function of Memory B Cells*

*Activation and regulation of autoreactive B cells: the myeloid connection*

*Activating Autoreactive B Cells: Roles of Tolls, T Cells, and Time*

**Ziv Shulman**, The Weizmann Institute of Science, Israel

*Dynamic signaling by T follicular helper cells during germinal center B cell selection*

**Erlend Smeland**, University of Oslo and Oslo University Hospital

*Evidence for involvement of the BCR in diffuse large B-cell lymphoma development*

**Devin Sok**, The Scripps Research Institute, California, US

*Rational vaccine design for HIV and HIV broadly neutralizing antibodies and their conserved epitopes*

**Jo Spencer**, King's College, London, UK,

*From bone marrow to gut-associated lymphoid tissue; a novel route in human B cell development*

**Jon Sponheim**, Oslo University Hospital  
*Interleukin-33 in IBD*

**Anne Spurkland**, University of Oslo  
*HLA association in multiple sclerosis*

**Harald A. Stenmark**, University of Oslo and Oslo University Hospital  
*Ubiquitin-mediated endosomal sorting - role in growth factor signalling and cell migration*

**Nils Christian Stenseth**, University of Oslo

*Plagues: Past, Present and Future*

**Andreas Strasser**, The Walter and Eliza Hall Institute of Medical Research, Australia

*The role of apoptosis in tumor development and cancer therapy*

**Per Thor Straten**, Copenhagen University Hospital, Denmark

*T cells; magic bullets in cancer therapy?*

**Kunchithapadam Swaminathan**, National University of Singapore, Singapore

*Happy marriages among biophysical techniques*

**Pavel Tolar (MRC National Institute for Medical Research, UK)**

*Mechanical extraction of antigens from the B cell immune synapse: a unique way to measure receptor-ligand affinity*

**John Trowsdale**, University of Cambridge, UK

*Regulation of MHC genes and proteins*

*Genetics and functions of genes in the leukocyte receptor complex*

*Genetic and functional interactions between MHC and NK receptors*

*Variation in the Major Histocompatibility Complex (MHC)*

**Hendrik Veelken**, University of Leiden, the Netherlands

*The B-Cell Receptor and Pathogenesis of B-Cell Lymphomas: A Functional Immunopathology Perspective of Lymphoid Neoplasia*

**Gestur Vidarsson**, University of Amsterdam, The Netherlands  
*Regulated IgG Fc-glycosylation in humans and its significance*

**Ioana Visan**, Senior Editor Nature Immunology

*From bench to publishing - an editorial perspective*

**Sally Ward**, University of Texas – Southwestern Medical Center, US  
*FcRn as a global regulator of IgG levels: from single molecule imaging to the development of therapeutics*

*The role of FcRn in IgG homeostasis: from protein engineering to imaging single molecules in 3D*

*Subcellular trafficking analyses of FcRn and IgG using high resolution microscopy: implications for antibody engineering*

**Kai Wucherpfennig**, Harvard Medical School, Boston, US

*Mechanism of HLA-DM induced peptide exchange in the MHC class II antigen presentation pathway*

*The Earliest Events in T cell Activation*

*Isolation of rare memory B cells for the generation of therapeutic antibodies*