



St Vincent's University Hospital Ltd
incorporating St Michael's Hospital



Education and Research Centre

“Knowledge he shall unwind
Through victories of the mind”

W.B. Yeats

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Review by Director of Education and Research Centre

After eight years as Medical Director Professor Barry Bresnihan resigned from this post at the end of 2000. During the years of his appointment Professor Bresnihan had overseen the development of the ERC, guiding it to a point where the high quality of its research output is widely recognised both nationally and internationally. With more than 400 publications in recent years and with approximately €5,000,000 in current grant funding, the ERC came to maturity under Professor Bresnihan's leadership. Finding a replacement for Professor Bresnihan has not been easy. While awaiting the appointment of a full-time ERC Director, it was agreed that I would act as Medical Director with the able assistance of both Doctors Diarmuid O'Donoghue and Walter McNicholas. I am grateful for their continuing support and indeed for the support and guidance of the other members of the ERC Management Team including Dr. Cliona O'Farrelly, Director of Research Laboratories, Mr. Eamonn Fitzgerald, Deputy CEO and Mr. Kevin Rice our new Senior ERC Administrator.

The tragic death of Dr. Leanne Stafford on the 10th. of September 2001 shortly after her return to Australia brought a sad note to the ERC. Her colleagues and friends remember her for her integrity, sincerity, and her sense of fun. Leanne was also very dedicated and committed to her work. All who knew her in the hospital sadly miss her.

(Department of Rheumatology, ERC), Dr. David Honan (Department of Physiology and Anaesthesia, UCD/SVUH) and Dr. Anna Kelly (Liver Group ERC).

Space remains a key issue in the ERC and we look forward to the completion of the new hospital and the relocation of services from the 3rd Floor to the new development, thus freeing up space for the development of Research Facilities at SVUH. Research at SVUH needs to expand significantly in the next few years if it is to achieve the status required to make it productive and competitive on the international arena. We would hope that this will be partly facilitated in the initial stages with funds becoming available for a new Genomic Resource Unit (GRU) through the PRTL initiative. Other major issues that need to be addressed include the retention of Senior Research Staff, development of a career track with academic links to UCD for SVUH researchers and development of positions for academic clinical staff.

I look forward to working with the ERC Management team in developing a strong ERC in these challenging times.

Finally, I would like to thank some key people, in particular Marie Lambe for her wonderful support and Mr. Bernard Mullen who retired at the end of 2001 after years of dedicated and much appreciated service.

Prof. Oliver FitzGerald
Medical Director



The highlight of the year 2001 was the Annual Research Symposium. This year it was a combined meeting with the section of Clinical Immunology and Allergy of the Royal Society of Medicine. The Symposium addressed the subject of "Common Molecular Mechanisms and New Therapeutic Targets in Inflammation and Malignancy". The key note speaker was Professor Salvador Moncada and the poster prize winners were Dr. Evelyn Murphy

Education and Research Centre Review

ERC Principle Investigators

Prof Barry Bresnihan
 Dr. Derek Doherty
 Dr. Lynda Fenelon
 Dr. Charles Gallagher
 Dr. John Hegarty
 Dr. Andrew Lloyd
 Dr. Ken McDonald
 Prof. T.J. McKenna
 Dr. Walter McNicholas
 Dr. Diarmuid O'Donoghue
 Prof Niall O'Higgins
 Prof. Oscar Traynor
 Dr. Leonie Young

Dr. John Crown
 Dr Joe Duffy,
 Dr. Oliver FitzGerald
 Mr. Justin Geoghegan
 Mr Arnie Hill
 Dr. Donald McCarthy
 Mr. Gerry McEntee
 Prof. Paul McLoughlin
 Dr. Evelyn Murphy
 Dr. Cliona O'Farrelly
 Dr. Kieran Sheahan
 Dr. James Tharappel
 Dr. Doug Veale

Education and Research Centre Review

Research Activities

"In vivo, in vitro, in silico and on to better care"

The Education and Research Centre (ERC) at St.Vincent's University Hospital (SVUH) is emerging as one of the country's leading Biomedical Research Institutes. Research programmes are designed to complement the clinical and treatment challenges faced by healthcare workers at SVUH, one of the busiest tertiary referral centres and teaching hospitals in the country. The National Liver Transplant Programme, National Early Arthritis Clinic and part of the National Breast Screening Programme are all based at SVUH which is also a pre-eminent clinical centre for Lung Disease Hepatitis C and Endocrinology amongst a whole variety of other clinical specialities. A common theme of many of the research programmes is the investigation of molecular mechanisms of inflammatory and malignant disease with a particular focus on gene expression and its regulation. Identification of specific changes in gene expression will lead to the development of novel diagnostic and prognostic applications as well as identification of new therapeutic targets for arthritis, liver disease and malignancy. A strong feature of ERC research is the collection, over many years, of tissue samples from well-defined cohorts of patients and from normal donors. The clinical data on these cohorts is collated and stored in databases, constituting a valuable research resource. The combination of these clinical data with state-of-the-art molecular techniques for the analysis of disease markers and mechanisms places the ERC in a position to make

of rheumatoid arthritis. The group has extended these studies to synovial tissue from a large cohort of patients with inflammatory arthritis whose clinical outcome is being followed in a longitudinal study.

The Liver Immunology Research Group is engaged in stem cell work, studies of liver lymphocytes and expression of regulatory cytokines that influence hepatic lymphoid populations important in mediating disease processes. The group is also engaged in quantifying expression of these and apoptotic genes that might contribute to damage of the donor organ prior to transplantation.

The Liver group has been successful in helping to secure the largest HRB Unit Research Grant ever awarded to study Hepatitis C infection in Irish patients. Identification of disease related changes in novel subpopulations of lymphocytes previously described by the group in human liver, is an important contribution to research in patients infected with Hepatitis C virus. The group has developed technology to quantify the relative viral loads in these cells. This study could have major implications for treatment design.

The Breast Cancer Research Group has been studying proteases, adhesion molecules and the transcription factors that control them in breast cancer for almost three decades. Of particular interest has been the identification of novel, more accurate markers of breast cancer and also their potential as prognostic tools. The group studies and



singular, clinically relevant contributions to biomedical research that will have implications world wide.

Research Programmes at the ERC

Research from the Rheumatology Programme focuses on the expression and regulation of acute phase proteins, cytokines, metalloproteinases and neurological transcription factors that play a key role in the initial stages

quantitates the expression of these markers in the large tissue banks of specimens that have been collected from breast cancer patients over the years. Using sophisticated statistical analyses, results are correlated with clinical outcome and significant changes in patient management have been implemented.

Comparative Physiology is particularly strong at the ERC with particular focus on lung physiology reflecting the

clinical strength and interests of the Dean of the Faculty Medicine at UCD and Professor of Medicine at SVUH. A large research programme in Sleep disorders has resulted in more than 10 publications in 2001, the most exciting of which was a book Breathing Disorders in Sleep. Research into the value of Exercise to Cystic Fibrosis patients led to papers and a Ph.D thesis, while molecular studies into mechanisms of lung damage has also been productive.

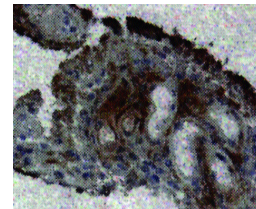
Clinical practice and research combined with state of the art laboratory support over the past two decades by the Endocrinology Group has led to a series of novel observations and new treatment regimes, particularly in diabetes and infertility. The Research Group has developed new hypotheses on how steroids are synthesised. In particular they have data suggesting a novel modulator that may control androgen production or regulate ACTH steroidogenesis. The group now proposes to explore second messenger and signal transduction pathways in the adrenal glands, with a view to identifying this novel modulating factor.

Bioinformatics at SVUH

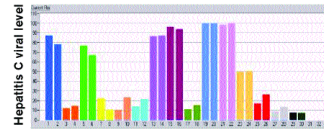
A notable new departure in 2001 was the acquisition of significant resources, from the Department of Agriculture's FIRM programme, to purchase computational power and expertise in bioinformatics. We expect that this will have significant synergistic value for all the research groups in the ERC and facilitate new ways of approaching research problems in many of the groups in tandem with similar activities at the Conway Institute, U.C.D.

Common Features of Successful Research at the ERC

The principle investigators at the ERC include physicians and scientists whose collaboration is key to the developing profile of cutting edge biomedical research. National and international reputations have developed as evidenced by publications in international peer-reviewed journals, and by grants and awards. Several million euro, in research funds have been raised by ERC Principal Investigators from government and charitable sources. New facilities for laboratory and clinical research have been designed. On a regular basis, new equipment is purchased, technologies introduced, and research staff recruited - critical for continued development of the ERC as a premier Biomedical Research Centre exploring key genetic, molecular, clinical and therapeutic features of some of the most important diseases suffered by adults in Ireland today.



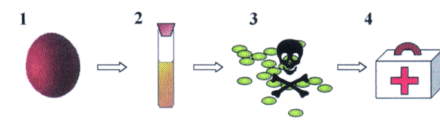
Immunohistochemical staining for A-SAA protein expression in inflamed synovial tissue. A blackish-brown staining indicated positive stained cells. The A-SAA positive cells are seen in surface of the lining and in the perivascular region.



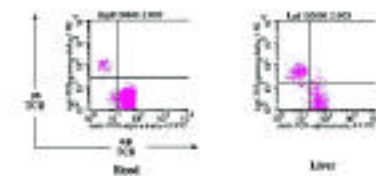
Detection of HCV RNA levels in serum samples from patient on combined interferon and ribavirin therapy



Alternative splicing of CD1d in human liver - several proteins smaller than the control (C1R) and corresponding to predicted sizes of splice variants from sequencing data, can be detected by Western blotting



Egg Yolk (1) is treated to produce a lipoprotein rich fraction (2) which is then screened for antibacterial activity (3) for possible inclusion in healthcare products



Flow Cytometry plots B220+ T cells from blood and liver

Research Laboratories - Personnel 2001

Director: Cliona O'Farrelly

Laboratory Co-ordinator: Tracey Dillane/Carolyn Law

Senior Research Scientists

Andrew Lloyd Evelyn Murphy James Tharappel

Newman Scholars

Malcolm Garland Evelyn Murphy Leonie Young

Research Assistants

Deirdre Foley Susan Gaines Martina Gogarty Laura Greenan

Post-Doctoral Fellows

Maria Benito Damien Brady Patrick Costello Ursula Fearon
Margaret O'Brien Norma O'Donovan Joan O'Keeffe

Ph.D Students (Science Graduates)

Sinead Barry Susan Behan Yvonne Buggy Shane Curran
Jonathan Dean Denise Drudy Lucy Golden-Mason Sinead Kelly
Tony Kenna David Lynn Colin Murtagh Alice McEvoy
Neil O'Brien Rosemay O'Hara Caroline O'Shea Jennifer Ralph
Brid Ryan

Ph.D Students (Medicine Graduates)

David Kane

Clinical Research Fellows

Rupert Barry John Cahill Suzanne Corcoran John Cullen
Jonathan Dodd Trevor Duffy Malcolm Garland Terence Rooney
Abdul Sulieman

Undergraduate Students

Anna-Karin Brolin Brigid Browne Laura Chan Sile Doyle
Aine Duffy Adrian Fitzsimons Patrick Hayden Rowan Higgs
Lucille Kavanagh Niamh Lynch Gemma More James Murphy
Stephen McCarroll Orla McEvoy

MSc. Students

Susan Gaines Donal O'Callaghan

M.Ch. Students

Louise Kelly Raghu Varadarajan

Research Nurses

Siobhan Cronin	Keith Egan	Emma Kiernan	Claire McNally
Blainead O'Connor	Edel O'Donovan	Caroline Roche	Mary Ryder
Lorna Timmons	Bronagh Travers		

Part-Time/Visiting Research Staff

Sean Cochrane	Karen Craddock	Susan Foley	Robert Geraghty
Elaine Healy	David Honan	Emma Kiernan	Jill Mackerel
Clare Matthews	Kevin McMahon	Sinead O'Connor	
Colm Power			

MD Students

Fergal Fleming	Anna Kelly	Eithne Murphy	Conor O'Brien
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Review by Director of Research Laboratories

New equipment, new technologies, new people - even old people with fresh ideas all contributed to the thriving academic atmosphere in the Research Laboratories during 2001. There are now 36 researchers based in the Research Laboratories under the direction of 26 Principle Investigators, who include clinicians, surgeons, pathologists and scientists all based at SVUH. This critical mass of researchers and the strengthening collaborations through the Conway Institute and the Dublin Molecular Medicine Centre as well as institutes abroad have been key to the rising standard of research at SVUH. More papers were published in journals with ever higher impact factors in 2001, more money was awarded for each grant won than ever before, lucrative deals were struck with commercial companies, degrees were awarded and prizes won.

Pharmaceutical Collaboration

One of the most exciting events was a significant award made to the Arthritis Group by Amgen. This is enabling the creation of a five year contract for Evelyn Murphy Ph.D. as Senior Scientist with the group. Evelyn's level of expertise, critical for the continuing development and improvement of research into Arthritis at SVUH, was recognised during 2001 with the conferring of the EULAR Young Investigator Award. The Arthritis Group was also able to fund a second research assistant, Laura Greenan, who is a very positive addition to the group and to the Research Laboratories.

commissioning of a state of the art nitric oxide analyser purchased under with a HRB Equipment Grant.

Bioinformatics at the ERC

Biomedical research potential at SVUH was given a particular boost in 2001 by the formal introduction of Bioinformatics. Research using these "in silico" methods, using powerful software and computers to mine rich seams of information in ever expanding databases to throw new light on genes and proteins of interest, is now being used by researchers in all areas of medicine. Dr. Andrew Lloyd, former Director of the Irish National Centre for Bioinformatics, is based in the Research Laboratories one day a week. He is co-supervising David Lynn, who has a M.Sc. in Bioinformatics from Ottawa University, and who is now pursuing a Ph.D. in the same area. A new server was purchased and networked so that the human genome (and other genomes) can be downloaded and explored using specially designed software. These developments were made possible through significant funding (over €0.5 million) from the Dept. of Agriculture under the Food Institutional Research Measures Programme. SVUH Administration made a wonderful contribution to this initiative by refurbishing the new Bioinformatics suite and funding a radio link between SVUH and UCD, thus increasing the connecting bandwidth from 128Kb to 7Mb. This is due to be functional early in 2002.



Tissue Damage Quantitation

Respiratory Physiology was as productive as ever with ongoing studies developed and new studies initiated by Drs. Walter McNicholas, Charles Gallagher and Prof. Paul McLoughlin. A highlight was the publication of a textbook on Sleep Disorders by Dr. McNicholas. On the technical side, several new areas of research into mechanisms of inflammation and damage are now feasible with the

Gene Analysis

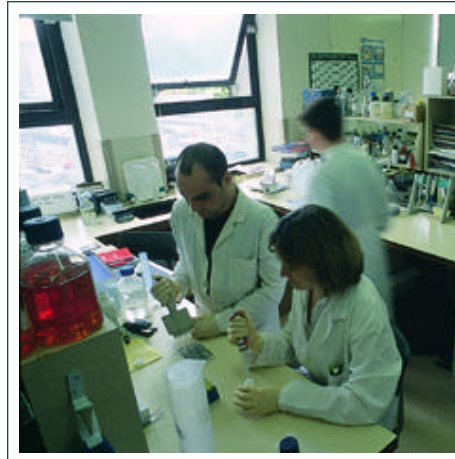
Cloning and sequencing of newly described versions of certain genes is another technology that is recently being undertaken by SVUH researchers with the help of the Bioinformaticians with Dr. Evelyn Murphy, Senior Scientist of the Arthritis group and Conway Fellow Dr. Margaret O'Brien leading the way. This approach is also being used by Colin Murtagh of the Chicken Immunogenetics Group

led by Dr. Tharrapel James senior Scientist and Cliona O'Farrelly

Research Staff

Dr. Leonie Young's appointment as Lecturer in the Dept. of Surgery is a loss to Endocrinology research but provides a wonderful opportunity for trainee surgeons to develop their research interests under the guidance of an experienced senior scientist. Working in close collaboration with senior surgeons. Her appointment also facilitates academic and technical communication between the Dept of Surgery activities at Woodview and in the Research Laboratories. Basic research into Breast Cancer at SVUH continues to develop with several prestigious awards and invitations being made to Dr. Joe Duffy and his colleagues in 2001.

Dr. Ursula Fearon's return to the Research Laboratories was welcomed for many reasons, not least because she and her husband Doug Veale, a newly appointed Consultant Rheumatologist, brought new expertise in angiogenesis and inflammation research to the Rheumatology Group from their previous appointments in Leeds. Ursula's appointment as Post-doctoral fellow softened the blow of Paddy Costello's departure to his prestigious new post as Immunology Advisor at the Irish Medicines Board.



Laboratory Coordinators

Tracey Dillane's appointment during 2001 as Laboratory Co-ordinator brought a new level of expertise and efficiency in laboratory management so critically required when trying to optimise efficient and professional use of the many pieces of complex equipment by a large number of research staff at varying levels of training. Carolyn Law's departure from the post of Laboratory Co-ordinator didn't involve a move too far away as she took a position with Cliona O'Farrelly and Mike Folan of Westgate Biologicals investigating the potential of milk and egg proteins to prevent fungal and bacterial adherence to target ligands.

The Future

In 2001, the HRB published its strategy document "Making Knowledge Work for Health" which emphasised the importance of improving patient care through biomedical research. SVUH made a significant contribution to the HRB during the preparation of this document. Hopefully, the philosophy and aspirations expressed will continue to be fostered and developed at SVUH with the combined efforts of research, clinical and administrative staff, who together have forged such a strong team and have already achieved so much.

Cliona O'Farrelly, Ph.D
Director Research Laboratories

Postgraduate Department

The Postgraduate Department once again had a very successful and busy year. The meetings organized at postgraduate level for the hospital staff still continue to attract a large audience from St. Vincent's University Hospital and are a vital contact for all the NCHDs.

Annual Hospital Study Day

The Hospital Annual Study Day continues to remain a very important day for the hospital staff and the general practitioners in the community. This year our Study Day was held on Saturday 1st December 2001 and was well attended. The format consisted of 2 Poster Sessions as follows:

1. (a) Vertigo (b) Knee Problems (including Jogger's Knee)
2. (a) Heart Failure (b) Epilepsy

There were also two Practical Workshops:

1. Confusion in the Elderly
2. Biochemistry in General Practice - Relevant & Appropriate Tests

At 6.30pm there was a lecture by Prof. Tom O'Dowd entitled "Coping with Stress in Medical Practice".

Medical and Surgical Meetings

The Postgraduate Lunch Time Meetings include:

- Respiratory • Gastroenterology • Neurology



- Nephrology • Palliative Care • Endocrinology
- Colorectal • Surgical Audit

There are also early morning meetings as follows:

- Tuesday's at 7.45am - SHO Conference
- Thursday's at 8.00am - Medical Conference
- Friday's at 7.30am - Cardiology

All of the above meetings are organized by the Postgraduate Department. Lunch or breakfast is provided.

Intern Lunch Time Seminars

Monday Lunch Time Seminars for Interns consist of Data Interpretation and Clinical Skills Sessions and are presented by Dr. Paul Byrne and Consultants within the hospital.

The Tuesday Lunch Time Seminar is organised by the Medical Intern Tutor in conjunction with the Postgraduate Department. Each week an Intern presents a case to the class and a discussion follows.

Thursday Lunch Time Lectures are on matters relating to all aspects of Surgery and are given by Consultant Surgeons within the hospital.

Friday Lunch Time Seminars for the Interns are presented by guest speakers and include Career Guidance, Risk Management, Stress Management and a wide variety of other topics.

MRCPI Part II Membership Tutorials

From March 2001 a structured series of Membership Tutorials, which run throughout the year, have been put in place. These tutorials are patient orientated and focus on physical examination and interpretation of physical signs.

International and National Meetings

In addition to the large number of in-house meetings, the Postgraduate Department helped organise the 8th Colorectal Study Day. This year's topic was "Current Controversies in Rectal Cancer". The organizing committee included Dr. D. Fennelly, Mr. J.M. Hyland, Dr. D.P. O'Donoghue, Dr. H. Mulcahy and Dr. K. Sheahan. The meeting was very well attended and interaction was excellent.

G. P. Meetings

The monthly G. P. Meetings continue to be organized through the Postgraduate Office with Dr. Edmond O'Flaherty as convener. As always a consultant gives a lecture on a topical subject that is relevant to the General Practitioner. These meetings continue to be an important source of contact between the hospital and the community. They are advertised in Irish Medical Times, Irish Medical News monthly and Medicine Weekly. A journalist often contacts the consultant involved and writes an article on the topic.



Pharmaceutical Representatives

The link for the pharmaceutical companies here in St. Vincent's University Hospital is the Postgraduate Department. The companies sponsor the Medical and Surgical Lunch and Breakfast Meetings and in turn the medical representative meets the consultants and NCHDs to discuss their products. This is an important link for both sides.

Clinical Science

This course is also organized by the Postgraduate Department in conjunction with the Royal College of Physicians of Ireland. These meetings are aimed at candidates preparing to sit Part II of the MRCP Examination. The course is run from this office bi-annually, ending before the June and November examinations. The course continues to run smoothly and the standard of teaching is excellent.

Library

The St. Vincent's University Hospital Library continues to grow in effectiveness and usefulness. The equipment in the Library is continually upgraded and increased over the years by the grants from the Postgraduate Medical and Dental Board.

Equipment

Once again as a result of the generous donations to the Postgraduate Department from the Medical and Dental Board, the Education & Research Centre has been able to purchase new audio-visual equipment which is used daily by national and international speakers.

The Student Summer Project

This continues to be an important part of the hospital's academic year. The aim of the Project for the student is to develop an interest in research so that he/she will continue to develop this interest at postgraduate level. The participating student submits a one page abstract on their Research Project and a panel of physicians and surgeons select the winner. The successful student receives a scholarship from the Hospital Board. This year the winner was Ian Murphy whose project was entitled "Genotyping Hepatitis G Virus in Irish Intravenous Drug Users". This was held on Thursday 15th November last.

"Get to Know Your Function" for Incoming NCHDs

Once again this year we had a very successful and enjoyable welcoming lunch for incoming NCHDs on Monday 16th July. This event is an opportunity to give NCHDs the relevant information about ongoing lectures/conferences and welcome them to the hospital. This is now an annual event.

Postgraduate Education Committee

This committee is now well established and meets three to four times per year to discuss postgraduate education in the hospital. Its aim is to enhance the education environment of postgraduate doctors at St. Vincent's University Hospital.

Dr. Walter McNicholas
Co-ordinator of Postgraduate Education

The Library of St Vincent's University Hospital provides a service to all staff members of the hospital, all affiliated students - medicine, nursing, physiotherapy, diagnostic imaging, science, dietetics - to local GPs and to staff of the private hospital.

The core opening hours are Monday to Friday 9.30am to 5.30pm with late openings until 9pm from Tuesday's to Thursday's during the academic year. Reading, photocopying, borrowing, interlibrary loan and computing facilities are available to all. A 24-hour study area is also provided.

Staff

After over 6 years of service, Sean Love resigned from his post of Librarian in February to take up the position of Director of Amnesty International (Ireland). Sean's contribution to library and information services in SVUH during his tenure was tremendous. He revolutionised the provision of electronic information services for the benefit of all staff and students on the hospital campus and is held in high esteem by all who know him.

Niamh Lucey was appointed Head of Library and Information Services in April 2001. Niamh had previously worked in a number of health-related libraries, most recently in Our Lady's Hospital for Sick Children. She wishes to acknowledge the remarkable contribution of her predecessor to library and informatics services in the Hospital and hopes to further develop these in the coming years.

Staff in 2001

The Library currently employs 2 full time and 1 part-time (evening) staff members

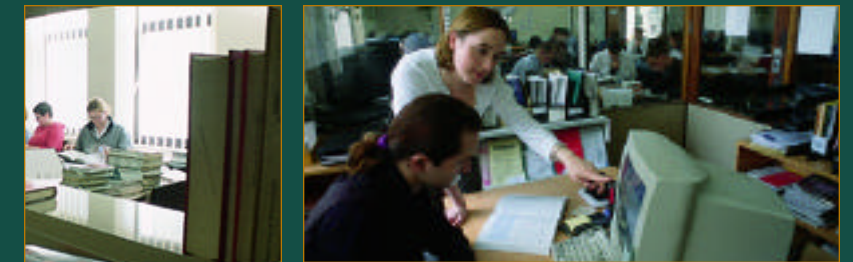
Librarian	Sean Love (to February) Niamh Lucey (since April)
Locum Librarian	Claire McGuinness
Library Assistant (full time)	Jane O'Loughlin Greg Sheaf (current)
Library Assistant (evenings)	Sarah Cahalane Huzaifa Adamali Jonathan Dean Jane O'Loughlin (current)

Library Services

Informatics

Saul Lugoye was appointed Computing Support Officer in January. He is based at the ERC and is responsible for maintaining and developing the SVHERC server.

In May it was decided to improve connectivity and to upgrade the speed of the server by installing a wireless (radio) link between the roof of the ERC and the Physics building at Belfield. This has increased the speed from 128K to 7MB and will be of enormous benefit to ERC



Library Assistant

In July a full time temporary Library Assistant was appointed to assist with the development of services. It is hoped to establish this as a permanent post.

research teams and library users alike. The project was funded by the Hospital and is due for completion in early 2002.

In November 16 new PCs were installed in the Library courtesy of UCD Computing Services. Thanks to the Postgraduate Medical and Dental Board a new PC was purchased for the Library office to enhance the delivery of services.

Collection

Shelving - New shelving was approved for the display of current journal titles in the Library and the office.

Journals - In 2001, the Library subscribed to 100 journal titles in the areas of medicine, nursing and allied health. Over 60 titles were also received on donation. A lack of storage space made it necessary to discard some extraneous titles from the collection but it remains one of the best journal collections in any Irish hospital.

Books - The quality of the existing book collection was of particular concern to the new Librarian. Throughout 2001 many of the books on the shelves were identified as being out of date and funding was sought for new stock.

A new circulation system was put into place to ensure that books borrowed were monitored more closely. Users are now required to register with the Library before borrowing any material and fines for books are rigidly enforced. This has considerably reduced the number of missing library books.

Electronic Resources

The Library subscribed to two databases - Cochrane Library (evidence-based medicine) and the BNI Plus (nursing). Medline continues to be freely available through PubMed.

Through the SVHERC server we had access to a number of other electronic databases including Medline, Cinahl and PsychInfo (formerly PsychLit). A number of electronic journals were also available from UCD.

The issue of electronic access to journal literature continues to raise questions for all libraries and the Librarian attended an important 2-day conference on the subject in Tullamore in October. The Library currently provides online access to 55 of its subscribed journals. Personal training sessions on the use of databases were offered to all staff and students and this has proved extremely popular with all.

Interlibrary Loans

2,106 Interlibrary Loans (ILLs) were processed in 2001, 850 through UCD and 1256 through the Irish Healthcare Libraries (IHL) Co-operative. The service was overhauled at the end of the year and ILLs are now ordered directly through the British Library when not available from UCD or

the IHL, thereby significantly speeding up document delivery time.

External Links

The Librarian was invited to join a working group of senior librarians from other teaching hospitals in Dublin. This group meets to discuss common issues and to develop library services in the major hospitals.

The Library plays an active role in the Library Association of Ireland Health Sciences Group and continues to co-operate with the Council of International Hospitals and the European Institute of Oncology (Istituto Europeo di Oncologia).

Future Developments

The following is a brief outline of planned developments in 2002:

Plans are underway to establish a permanent Library Assistant post to provide administrative support in the Library.

New switches are to be purchased for the SVHERC server funded by UCD. Talks will resume with the hospital IT department to link the hospital and SVHERC servers. The Library will work closely with UCD Computing Services to improve delivery of online services.

It is hoped to purchase a library management system to enhance library services. Benefits would include an online catalogue of the Library's holdings and an automated circulation system.

The lack of available storage space continues to prove problematic and it is hoped to find a suitable storeroom in 2002. Security issues are also of concern and it is hoped to find a satisfactory solution in the coming year.

New books will be purchased for the Library which will reflect all areas of concern including allied health professions, study skills, health management and quality and accreditation. The aspiration is to develop a book collection that will rival our journal collection for currency and relevance.

Library Sub-Committee

The Library Sub-Committee continues to be chaired by Dr Diarmuid O'Donoghue and met 5 times in 2001. Its members included: Dr John Boylan (Anaesthesia), Mr Lloyd Felton (IT), Ms Regina Joye (School of Nursing), Ms Louise Kelly (Surgery), Mr Saul Lugoye (Medical Informatics), Dr Patrick Brennan (School of Diagnostic Imaging - to Summer 2001), Mr Mark McEntee (School of Diagnostic Imaging - since Summer 2001), Dr Paul Byrne (Medicine - to Summer 2001), Dr Katherine O'Reilly (Medicine - since Summer 2001), and Dr Cliona O'Farrelly (ERC). Mr Eamonn Fitzgerald attended as an external member and other members of the IT department have attended on occasion.

Acknowledgments

The Librarian wishes to sincerely thank Dr O'Donoghue and the Library Sub-Committee for all their support and encouragement in her first year. She is very grateful to the hospital management, and particularly Mr Eamonn Fitzgerald for his support of plans for library development

Niamh Lucey
Head of Library & Information Services



Education and Research Centre Review

Department of Preventive Medicine and Health Promotion

Staff

Professor Leslie Daly, MSc, PhD, FFPHM

Dr. Anna Clarke LRCP&SI, MB, MPH, FRCPI, FFPHMI, FFPHM.

Ms. Denise Comerford RGN, RM
(Health Promotion Coordinator)

Ms. Ann Honan Croke RGN.

Ms. Kirsten Doherty BSc, MPH
(Health Promotion Officer)

Ms. Hilda Gallagher RGN RM
(Health Promotion Officer)

Ms. Veronica O'Neill RGN, RM.

Ms. Carol Pye RGN, RM
(Health Promotion Officer)

Ms. Vivien Reid MSc, Dip. Diet.

Ms. Brenda Whiteside RGN, RM
(Health Promotion Officer)

Ms. Frances Conlan (Secretary)

Allied UCD Staff

Dr. Patricia Fitzpatrick MB, DCH, MRCPI, FFPHMI.

Dr. Anthony Staines, BA, MB, MSc., PhD, MRCPI, MFPHM, MFPHMI.

Service Developments / Activities

Health Promoting Hospitals

St. Vincent's University Hospital takes a prominent position in the National Network of Health Promoting Hospitals (HPH). Denise Comerford is a member of the National Executive and the National Scientific Committee of the HPH. She has also been co-opted to the National Training Committee. A video has been produced which represents health promotion activities being undertaken in hospitals nationwide. Health promotion in St. Vincent's University Hospital was included in the video.

There are four official St. Vincent's University Hospital projects for 2001. These are as follows:

- "Expanding the Heart Failure Programme and Maintaining Standards" submitted by Mary Ryder, Heart Failure Nurse Specialist.

- "Evaluation of Healthwise Newsletter" submitted by Denise Comerford, Health Promotion Coordinator.
- "Carer Stress Pre and Post Multidisciplinary Input in an Acute Day Hospital setting. Is there a need for a carer support group?" submitted by Carol O'Donnell, Occupational Therapist.
- "Violence Training for Selected Staff in SVUH" submitted by Dr. Paul Gueret, Occupational Health Physician.



St. Vincent's University Hospital was the overall winner in its section of Hospital Challenge Day 2001.

We were well represented at both National and International Health Promoting Hospital meetings with both verbal and poster presentations

Education and Training Days

Fourteen training days for health professionals were provided in 2001. These days were run by the department or coordinated with colleagues within the hospital.

Topics were:

- Wound Care (x 2)
- Breast Disease
- Cardio Pulmonary Resuscitation (x 3)
- Inflammatory Bowel Disease
- Diabetes Study Day
- Care Challenges and the Older Person
- Infection Control
- Palliative Care
- Smoking Cessation - Theory & Practice
- Smoking Cessation - Interactive Listening Skills & Group Facilitation
- Two Day Stop Smoking Course

Health Promotion Committee

Dr Anna Clarke was elected chairperson of the Health Promotion Committee, St. Vincent's University Hospital. Denise Comerford continues her role as secretary. The committee also welcomed Dr. T. McDonnell as the new medical representative on the committee.

"Healthwise" continues to be published quarterly and is subject to an evaluation as a Health Promoting Hospitals official project. The contribution from staff throughout the hospital is appreciated.

Apart from activities related to Health Promoting Hospitals the major project throughout the year for the committee was working towards the launch of a Smoke Free Policy for our hospital (13th February 2002).

Health Promotion for Staff

The Occupational Health Department and the Health Promotion Co-ordinator provided two Health Promotion Information Stands for staff in 2001.

Topics were:

- Smoking
- Cancer Awareness (in association with BreastCheck, and the Coloproctology Nurse Specialist)

During National Healthy Eating Week, healthy eating choices for staff were highlighted by the catering staff in conjunction with the Department of Nutrition and Dietetics. The Healthy Eating Magazine from the Department of Health and Children was available in the restaurant. Vivien Reid, Dietitian, was available in the restaurant at lunchtime on one day in the week to deal with staff questions.

Health Promotion Seminars for Transition Year Students

The programme of health promotion seminars for transition year students initiated in 1997 was provided again in 2001. Seminars were held in the Education & Research Centre.

Nutrition

In association with the Health Promotion Unit at the Department of Health and Children, Vivien Reid continues to organise seminars for dietitians working in community nutrition and primary care. In October, a two day Health Behaviour Change Course for Dietitians was provided in the Education and Research Centre.

Vivien continues to be consulted on nutrition matters by dietitians working in hospitals and the community as well as by various organisations. She is a member of the Council on Nutrition at the Irish Heart Foundation and a member of the editorial board of Heartwise.

Research

New

Survey of smoking prevalence: In November a survey of SVUH staff was conducted.

Ongoing

Cardiac Rehabilitation - A questionnaire survey of patients attending the Cardiac Rehabilitation Programme is being undertaken. The aim is to document lifestyle changes during rehabilitation and assess how they are maintained over one year. Vivien Reid co-ordinates this study with the support of the multidisciplinary Cardiac Rehabilitation team.



Topics this year were:

- Heart Health
- Smoking - Active and Passive
- Healthy Eating in conjunction with the National Dairy Council
- Bugs, Superbugs and Antibiotics

Smoking Prevalence among Student Nurses: This is a follow-up study of three consecutive years' intake to the School of Nursing, which has been completed and is now being analysed.

The St. Vincent's Hospital Heart Study: This is a study of long-term survival after a heart attack in patients recruited between 1965 and 1975. A 35-year follow up was completed in 2000 and analysis is ongoing.

Cardiac Rehabilitation

The staff of the Department of Preventive Medicine and Health Promotion continue to support the well established multidisciplinary team of cardiac rehabilitation.

Smoking Cessation Services

The department received funding from the Cardiovascular Health Strategy of £320,000 (€406, 316.19) over two years and nine months, enabling the employment of four additional staff. Part of their remit is to develop the smoking cessation services to patients and staff, in line with the launch of the hospitals smoke-free policy.

Twenty-four Hour Ambulatory Blood Pressure Monitoring

A twenty-four hour Ambulatory Blood Pressure Monitoring Service was provided for over 418 patients in 2001. This service takes referrals from out-patients clinics, consultants clinics and GPs.

Significant Achievements**Vivien Reid**

- Won the Irish Nutrition & Dietetic Institute/Fresenius Kabi Gold Medal Award in November 2001 for the Cholesterol Information Session paper.

Dr Anna Clarke

- Awarded fellowship of the Royal College of Physicians May 2001
- Awarded fellowship of the Faculty of Public Health Medicine of the Royal Colleges of Physicians of the United Kingdom - June 2001
- Elected Vice Dean of the Faculty of Public Health Medicine of the Royal College of Physicians of Ireland

Dr Patricia Fitzpatrick

- Elected to Board of Faculty of Public Health Medicine, RCPI
- Nominee of the Council of Royal College of Physicians of Ireland to act as representative of the College on the National Heart Alliance
- Member of Research Project Grant Committee of the Health Research Board (Epidemiology, Health of the Population and Primary Care) 2001-2004
- Appointed Member of Research Committee of Women's Health Council

Professor Leslie Daly

- Awarded fellowship of the Faculty of Public Health Medicine of the Royal Colleges of Physicians of the United Kingdom - June 2001
- Member of Research Project Grant Committee of the Health Research Board (Epidemiology, Health of the Population and Primary Care) 2001-2004

Significant Publications

Fitzpatrick P, Kirke P, Daly L, van Rooij I, Dinn E, Burke H, Bourke G, Masterson J.

Predictors of first hip fracture and mortality post fracture in older women.

Irish Journal of Medical Science 2001;170:49-53.

Clarke A, Members of the European Latin American Public Health network. Lessons learned in a European-Latin American collaboration to develop postgraduate education in public health.

European Journal of Public Health 2001;11:227-230.

Shannon F, Devitt A, Poynton A, Fitzpatrick P, Walsh MG. Short-term benefit of arthroscopic washout in degenerative arthritis of the knee. International Orthopaedics 2001; 25: 242-245.

Smith S, Bury G, O'Leary M, Shannon W, Tynan A, Staines A, Thompson C.

The North Dublin Diabetes Shared Care (DISC) Project: a profile of current diabetes care in Ireland.

Ir Med J. 2001 Sep;94(8):240-3.

O'Connell T, Thornton L, O'Flanagan D, Staines A, Connell J, Dooley S, McCormack G.

Oral fluid collection by post for viral antibody testing.

Int J Epidemiol. 2001 Apr;30(2):298-301.

Academic Activities**Research Training**

St. Vincent University Hospital (SVUH) offers excellent post-graduate training for researchers from medical and scientific backgrounds. This advanced training is a key element to the emergence of St. Vincent's University Hospital (SVUH) as one of the nation's leading biomedical research institutions. Extensive interactions with SVUH PIs is critical to research education and regular meetings of each of the research groups based in the ERC are held where individual researchers present and discuss their ongoing work. Additional formal elements are also important.

Amongst these is a weekly Journal Club held at 9 AM on Thursday's (to which everyone at SVUH interested in research) is welcome. ERC researchers take it in turn to review primary papers from leading biomedical Journals. Comprehensive introductions to the topic of the day are followed by in depth presentation of the paper under review with ongoing questions and discussion.

Research Seminar Series at the Education & Research Centre

Thursday 22nd. February 2001 (in collaboration with the HRB)
Chair: Professor M.X. Fitzgerald, Dean of Medicine, UCD
Professor Peter Whittaker, Biology Department, National University of Ireland, Maynooth

"Of Mice and Men: Biomedical Research under the ethical Microscope"

Mr. Asim Sheikh, Lecturer in Legal Medicine, Faculty of Medicine, UCD

"The Legal and Ethical Aspect of Participation in Genetic Research"

Thursday 30th March 2001

Andrew T. Lloyd

Director of the Irish National Centre of Bioinformatics

"The Human Genome - what's in it for us?"

Thursday 31st. May 2001

Stephen J. Simpson PhD. Immunology Editor, Science
"Hot off the press; an editor's view of publishing in Science"

Thursday 21st. June 2001

Peter Donaldson, Newcastle University

"Genetics of Complex Disease"

Thursday 26th. July 2001

Prof Ciaran Kelly, Harvard Medical School

"Molecular Mechanisms of C.difficile infection"

Immunology Course 2001

Wednesdays 4-6 pm

Organs, Cells and Molecules of the Immune System
24th October

Mechanisms of Innate Immunity
Dr. Cliona O'Farrelly

Inflammation 30th October
Control, Resolution and Manipulation of the Immune Response
Dr. Evelyn Murphy

The Adaptive Immune Response 7th November
T and B lymphocytes, Antigen Presenting Cells: Phenotype, Function and Mechanisms of Interaction
Dr. Joan O'Keefe

Immune Response to Infection 14th November
The Role of Immune Cells and Cytokines in Mediating Resolution of Pathology of Infection
Dr. Lucy Golden-Mason

Failure of the Immune Response 21st November
Genetic Influences in Autoimmunity and Hypersensitivity
Dr. Cliona O'Farrelly

Prestigious Invitations to ERC

Professor Barry Bresnihan was an invited speaker at:

- The British Society for Rheumatology, American College for Rheumatology
- The European Union League against Rheumatism meeting (Eular).

Dr Oliver FitzGerald was an invited speaker at:

- The Glasgow Royal Infirmary in May and the Irish Society for Rheumatology AGM in October.
- The International Meeting on spondylarthropathies, Ghent, Belgium.
- The Irish Society for Rheumatology : Unravelling the seronegative arthropathies, Dublin
- On Enthesitis Meeting Role of T cell in Psoriatic Arthritis, Leeds, UK.
- The Spondyloarthropathy Congress: "Immunology of Psoriatic Arthritis", Gent, Belgium.
- The RSM Meeting: "Psoriatic Arthritis: one or more diseases", Leeds, UK.

Dr Joe Duffy was invited to speak on:

- New Era in Tumor Markers Conference, Santa Barbara, CA, Estrogen Receptor- β , Role in breast cancer.
- Association of Clinical Biochemists (UK) National Meeting, London, Overview on Tumor Markers.

Dr Ursula Fearon was invited to speak at:

- Combined meeting of the Royal Society of Medicine and the Education & Research Centre (November, 2001) on Expression of Angiopoietin 1 & 2, V EGF in relation to angiogenesis and vascular morphology in early inflammatory arthritis.

Dr. Walter McNicholas was invited to speak on:

- In Berlin, Impact of sleep on Respiratory Muscle Function.
- In Sorrento, Management of obstructive sleep apnoea syndrome.
- In Athens, Sleep-related breathing disturbances in COPD.

Dr Evelyn Murphy was invited to speak at:

- The 2nd International Meeting on the Neuroendocrine Immune Basis of Rheumatic Disease, Genoa. Italy, The Hypothalamic-Pituitary-Adrenal Axis and Inflammation at On Angiogenic Mediators.
- Section of Clinical Immunology and Allergy of the Royal Society of Medicine. University College Dublin.

Dr. Cliona O'Farrelly was invited to speak:

- On 'Philosophy of Science', Dept. of Philosophy, NUI Maynooth,
- On 'Old Friends in Disguise: a fresh look at intestinal T lymphocytes' at Biomed Meeting on Lymphoma and Coeliac Disease, Dublin.
- On 'Biomedical Research in Ireland: A Shared Path to New Discoveries and Better Health Care' at 2nd Annual Multidisciplinary Research Conference, Sligo General Hospital,
- On 'Uberblicken from a Teaching Hospital' at the Conway Festival of Research, UCD.
- On 'Advances in Hepatitis C Research by Transfusion Positive, Dublin.
- Organised and Chaired session on Liver Immunology, British Society of Immunology, Harrowgate, UK

Dr. Diarmuid O'Donoghue was invited to speak at:

- The 8th Shrewsbury Conference in May 2001 in the U.K. "Closing the Stable Door and Opening the Molecular Window".

Dr Doug Veale was invited speak at

- The International League against Rheumatism (ILAR) meeting at Edmonton, Canada (August, 2001). "Immunologic Factors in Psoriatic Arthritis".

Annual Biomedical Research Symposium

The Eighth ERC Annual Biomedical Research Symposium

The ERC Biomedical Research Symposium has emerged as a leading event in calendar of Irish research activities with a reputation for addressing important topics in a lively stimulating environment. The aim of the Biomedical Research Symposium is to address basic research topics of relevance to all biomedical researchers, which have strength in Ireland in general, but to particularly reflect the research interests and strength of St. Vincent's University Hospital.

The Eight Annual Research Symposium was held on Friday 2nd November 2001 at the Student Centre, UCD, Belfield. This year the Education and Research Centre at St. Vincent's University Hospital, Dublin and the Immunology Section of the Royal Society of Medicine, London held a combined meeting, with the theme "Common Molecular Mechanisms and New Therapeutic Targets in Inflammation and Malignancy".

The keynote speaker was Professor Salvador Moncada. Professor Moncada's research interests include the pharmacological actions of vasoactive substances in thrombosis, atherosclerosis and inflammation. This work has led to the discovery of:

- the mechanism of aspirin-like drugs
- the enzyme of thromboxane synthase
- prostacyclin
- the nitric oxide biochemical pathway

The welcome address was given by Prof Muiris X. FitzGerald, Dean of Medicine, University College Dublin

Session I Cytokines, Signalling Mechanisms & their Control

Chair: Cliona O'Farrelly,
Dublin & Gus Dalglish, London

Uncoupling of Signal Transduction Pathways in Chronic Inflammation Andrew Cope, London

Enzymes Involved in TNF Secretion & Their Control & Roles in Inflammation
Norman McKie, Newcastle Upon Tyne

Novel Cytokine Targets in Inflammation
Iain McInnes, Glasgow

Session II - Proteases, Cytokines & Their Role in Inflammation and Metastasis

Chair: John Axford, London & Hugh Brady, Dublin

Regulation of Proteases, Their Expression & Function in Intestinal Inflammation
Tom MacDonald, Southampton

The Role of Chronic Immune Activation and Inflammation in the Pathogenesis of AIDS and Cancer
Gus Dalglish, London

Proteases: Role in Cancer Invasion & Metastasis
M.J. Duffy, Dublin

Session III - Molecular Targets for Prevention of Angiogenesis

Chair: Dermot Kelleher, Dublin & Oliver FitzGerald, Dublin

Angiogenic Factors in Inflammation Evelyn Murphy,
Dublin Targeting Angiogenesis
Constantino Pitzalis, London

Expression of Angiopoietins 1 & 2, V EGF in Relation to Differential Angiogenesis & Vascular Morphology In Early Arthritis
Ursula Fearon, Dublin

Novel Glycoconjugates, Interesting Structures, and Effects on Binding of Heparin to Fibroblast Growth Factor.
Paul Murphy, Dublin

Session IV - Anoxia, NO and Tissue Damage

Chair: Richard Gallagher, London & Patrick Venables, London

Hypoxia & Inflammation
Cormac Taylor, Dublin

NO Mediated Tissue Damage
Paul McLoughlin, Dublin

Keynote Address

Nitric Oxide & Cell Respiration: Physiology & Pathophysiology
Salvador Moncada MD, PhD, DSc, FRCP, FRS
Director Wolfson Institute for Biomedical Research

Education and Research Centre Review

Honours and Awards

Honours, Awards and Prizes

Professor Bresnihan

- Invited speaker at the British Society for Rheumatology, American College for Rheumatology and the European Union League against Rheumatism (Eular) meeting.
- Visiting professor at University of Sydney.
- Chairman of the Arthritis Research Campaigne (UK) subcommittee for academic support.
- Co-ordinator of the European Synovitis Study Group,
- Editorial boards of Arthritis & Rheumatism, Journal of Rheumatology, Annals of Rheumatic Diseases, Current Opinion in Rheumatology, Baillieres Clinical Rheumatology and Rheumatology International.

Prof. Oliver FitzGerald

- Invited speaker at the Glasgow Royal Infirmary in May and the Irish Society for Rheumatology AGM in October.
- Chairman of the Medical Board, Co-Medical Director of the Education & Research Centre, member of the Board of Directors of St Vincent's University Hospital, Council member of the Arthritis Foundation of Ireland, Medical Director of Rheumatology Rehabilitation, Harolds Cross
- Incoming President of the Irish Society for Rheumatology.

Dr. Cliona O'Farrelly

Incoming President Irish Society of Immunology

Dr. Anna Kelly

- Poster prize 2001 at the Annual ERC Research Symposium.

Dr Evelyn Murphy

- The 2001 JMS/HRB Award in Rheumatology,
- The European (EULAR) Young Investigator Award, 2001
- Poster prize at ERC Annual Research Symposium.

Dr. Margaret O'Brien, Conway Fellow

- Second Prize: Conway Research Festival, UCD.

Dr Doug Veale

- Invited to present a paper entitled "Immunologic factors in Psoriatic Arthritis", at the International League against Rheumatism (ILAR) meeting at Edmonton, Canada (August, 2001).

Degrees Awarded in 2001

Ph.D

Denise Drudy
Lucy Golden-Mason
Sinead O'Connor
Alasdair Thin

MD

Edward McKone

M.Ch.

Gerald McGreal

M.Sc. in Bioinformatics

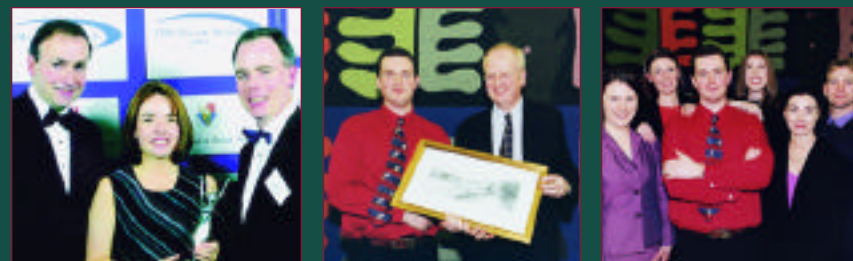
David Lynn (1st Class Honours, Ottawa University)

Tony Kenna

- First prize for his Poster Presentation Irish Society of Immunology Meeting.

Jonathan Dean

- First prize for his research at the Annual Merville Lay Seminars at UCD.



Education and Research Centre Review

Publications

Papers in International Peer Reviewed Journals 2001

Andreyev HJN, Nornam AR, O'Donoghue D P, et al
Kirsten ras mutations in patients with colorectal cancer: the 'RASCAL II' study .

Br J Cancer. 2001;1;85(5):692-6.

Cullen R, Maguire TM, McDermott E, Hill A, O'Higgins N, Duffy MJ.

Studies on oestrogen receptor-alpha and beta mRNA in breast cancer.

Eur J Cancer 2001;37:1118.

Cunnane G, FitzGerald O, Hummel K, Youssef P, Gay R, Gay S, Bresnihan B.

Synovial tissue protease gene expression and joint erosions in early rheumatoid arthritis.

Arthritis Rheum 2001; 44:1744-1753

Cunnane G, FitzGerald O, Beeton Charlotte, Cawston T, Bresnihan B. Early

Joint erosions and serum levels of matrix metalloproteinase (MMP)-1, MMP-3 and tissue inhibitor of metalloproteinases-1 in rheumatoid arthritis.

Arthritis Rheum, 2001;44:2263-2274

Cunnane G, FitzGerald O, Hummel KM, Gay RE, Gay S, Bresnihan B.

Early joint erosions and synovial membrane protease gene expression.

Arthritis Rheum 2001; 44:1744-1753

Cunnane G, Madigan A, Murphy E, FitzGerald O, Bresnihan B.

The effects of treatment with interleukin-1 receptor antagonist on the inflamed synovial membrane in rheumatoid arthritis.

Rheumatology 2001; 62-69.

Costello P, Winchester R, Curran S, Peterson K, Kane D, Bresnihan B, FitzGerald O.

Psoriatic arthritis joint fluids are characterised by CD8 and CD4 T cell clonal expansions that appear antigen driven.

J Immunol 2001; 166: 2878-2886

Connolly G, Razak A, Hayanga, A, Russell A, McKenna P, McNicholas WT.

Inspiratory flow limitation during sleep in pre-eclampsia: comparison with normal pregnant and non-pregnant women.

European Respiratory Journal 2001; 18: 672-76.

Deignan T, Alwan A, Malone L, Kelly J, O'Farrelly C.
Hen egg yolk prevents bacterial adherence: a novel function for a familiar food.

J Food Sci 2001;66:158-161.

Doran M, Wordsworth P, Bresnihan B, FitzGerald O.
Clinical, HLA and immunohistologic features of systemic sclerosis-rheumatoid arthritis overlap syndrome - a distinct entity.

J Rheum 2001; 28: 921-922

Drudy D, O'Donoghue D P, Baird AW, Fenelon L, O'Farrelly C.

Flow cytometric analysis of Clostridium difficile adherence to human intestinal epithelial cells.

J Med Microbiol. 2001;50(6):526-34.

Dunne J, Lynch S, O'Farrelly C, Hegarty JE, Feighery C, Doherty DG.

Selective expansion and partial activation of human N K cells and NK receptor-positive T cells by I L-2 and I L-15.

J Immunology, 2001;167: 3129-3138.

Duffy MJ, Hill AD, McGreal G, Walsh S, McDermott EW, O'Higgins NJ.

Prospective evaluation of the morbidity of axillary clearance for breast cancer.

Br J Surg. 200;88(1):114-7

Fearon U, Fraser A, Griposios K, Emery P, Reece R, Jones P, Veale DJ.

Co-Expression of growth factors (VEGF and TGF-?) and angiopoietins determines vascular morphology in inflammation.

J Rheumatol In Press

Fraser A, Fearon U, Reece R, Emery P, Veale DJ.

Matrix metalloproteinase 9, apoptosis, and vascular morphology in early arthritis.

Arthritis Rheum 2001;44 (9) :2024-8

Golden-Mason L, Kelly A, Traynor O, McEntee G, Kelly J, Hegarty J, O'Farrell C.

Expression of Interleukin 7 (I L-7) mRNA and Protein in the normal adult human liver: implications for extrathymic T cell development.

Cytokine 2001;14:143-151.

Harney S, O'Shea B, FitzGerald O.

Streptococcal pericarditis post anti-TNF treatment for RA.

Annals Rheum Dis 2001 in press.

Harrington P, Millner PA, Veale D.
Inappropriate medical management of spinal epidural abscess.

Ann Rheum Dis 2001;60(3):218-22

Higgins MJ, Walsh M, Kennedy SM, Hyland JM, McDermott E, O'Higgins NJ.
Granulomatous appendicitis revisited: report of a case.
Dig Surg. 2001;18(3):245-8.

Hodson M. E., Gallagher C. G., Govan R. W. A
Randomised Clinical Trial of the Efficacy and Safety of Nebulised Tobramycin or Colistin in Cystic Fibrosis.
European Respiratory Journal, In Press.

Hopkins N, Cadogan E, Giles S, McLoughlin P.
Chronic airway infection leads to angiogenesis in the Pulmonary circulation.
J Appl Physiol 2001; 91(2):919-28

Hopkins, N., McLoughlin, P.
The structural basis of pulmonary hypertension in chronic lung disease: remodelling, rarefaction or angiogenesis.
J. Anat. In press.

Isaacs JD, Gaston JS, Crowe JS.
Detection of Mycobacterium tuberculosis Group Organisms in Human and Mouse Joint Tissue by Reverse Transcriptase PCR: Prevalence in Diseased Synovial Tissue Suggests Lack of Specific Association with Rheumatoid Arthritis.
Infect Immun 2001; 69(3):1821-1831.

Kane D, Greaney T, Shanahan M, Duffy G, Bresnihan B, Gibney R, FitzGerald O.
The Role of ultrasonography in the diagnosis and management of idiopathic plantar fasciitis.
Rheum. 2001; 40: 1002-1008.

Kennedy N, Sayers K, Cassidy C, Ward S, Bresnihan B, FitzGerald O, Stokes E.
The effect of a period of rehabilitation in a rheumatic diseases unit.
Br J Therapy & Rehabilitation, January 2001; 8: 29-36

Kempsell KE, Cox CJ, McColm AA, Bagshaw JA, Reece R, Veale DJ, Emery P, Manir Ali, Frederique Ponchel, Katherine E. Wilson, Michael J.D. Francis, Xia Wu1, Adrienne Verhoef, Arthur W. Boylston, Douglas J. Veale, Paul Emery, Alexander F. Markham, Jonathan R. Lamb and John D. Isaacs.

Rheumatoid arthritis synovial T cells regulate transcription of several genes associated with antigen-induced anergy.
J Clin Invest 2001; 107(4): 519-528.

Linnane SJ, Thin AG, Keatings VM, Moynihan JB, McLoughlin P, FitzGerald MX.
Glucocorticoid treatment reduces exhaled nitric oxide in cystic fibrosis patients.
Eur Respir J 2001; 17(6):1267-70.

McCormack G, Moriarty D, O'Donoghue D P, McCormick PA, Sheahan K, Baird AW.
Tissue cytokine and chemokine expression in inflammatory bowel disease.
Inflamm Res. 2001;50(10):491-5.

McCormack G, O'Donoghue D P, Baird AW.
In-vitro cyclosporin sensitivity of proliferating lymphocytes is predictive of in-vivo therapeutic response in ulcerative colitis.
Aliment Pharmacol Ther. 2001;15(5):665-8.

McCormack G.
Oral fluid collection by post for viral antibody testing.
Int J Epidemiol. 2001;30(2):298-301.

McEvoy A, Bresnihan B, FitzGerald O, Murphy EP.
Corticotropin-releasing hormone signalling in synovial tissue from patients with early inflammatory arthritis is mediated by the type 1a corticotropin-releasing hormone receptor.
Arthritis Rheum, 2001 44: 1761-1767

McEvoy A, Murphy E., Conneely O, Bresnihan B, FitzGerald O, Murphy EP.
Activation of nuclear orphan receptor NURR1 transcription by NF(B and CR EB in rheumatoid arthritis synovial tissue.
J Immunology. In press.

McEvoy A., Bresnihan B, FitzGerald O, Murphy E P.
Corticotropin-Releasing Hormone signaling in vascular endothelium is mediated through the cAMP/CR EB pathway.
Annals New York Academy of Science. In press.

McKone E. F., Barry S. C., FitzGerald M. X., Gallagher C. G.
The Role of Supplemental Oxygen during Sub-maximal Exercise in Patients with Cystic Fibrosis.
European Respiratory Journal In Press.

Minnock P, FitzGerald O, Bresnihan B.
Patient perceptions of disease impact on health status and prognosis in established rheumatoid arthritis.
Rheumatol, 2001; 4: 142.

Murphy E, Bresnihan B, FitzGerald O.
Validated measurement of periarticular bone mineral density at the knee joint by dual energy x-ray absorptimetry .
Ann Rheum Dis 2001;60: 8-13, 2001

Murphy EP, McEvoy A, Conneely O, Bresnihan B, FitzGerald O.
Involvement of the nuclear orphan receptor NURR1 in the regulation of Corticotropin Releasing Hormone expression and actions in human inflammatory arthritis.
Arthritis and Rheumatism, 2001;44: 782-793.

Moloney ED, Kiely JL, McNicholas WT.
Controlled oxygen therapy and carbon dioxide retention during exacerbations of chronic obstructive pulmonary disease
The Lancet 2001; 357: 526 - 528.

Moriarty D, Goldhill J, Selve N, O'Donoghue D P, Baird AW
Human colonic anti-secretory activity of the potent NK(1) antagonist, SR140333: assessment of potential anti-diarrhoeal activity in food allergy and inflammatory bowel disease.
Br J Pharmacol. 2001;133(8):1346-54.

Moreau P, O'Brien M, Faure O, Lefebvre S, Ibrahim EC, Gourand L, Dausset J, Carosella ED, Paul P.
Glucocorticoid hormones upregulate levels of HLA -G transcripts in trophoblasts.
Transplant Proc. 2001;33(3):2277-80.

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Altered HLA -G transcription in pre-eclampsia is associated with allele specific inheritance: possible role of the HLA -G gene in susceptibility to the disease.
Cell Mol Life Sci. 2001;58(12-13):1943-9.

O'Higgins N, Geraghty J, Barrett EJ.
Evolving structures in surgical oncology and the role of the Federation of European Cancer Societies in continuing medical education.
Surg Oncol Clin N Am. 2001;10(4):749-62.

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Sources of calcium in neurokinin A-induced contractions of human colonic smooth muscle in vitro.
Am J Gastroenterol. 2001;96(11):3117-21.

Ryan S, McNicholas WT, O'Regan RG, Nolan P.
Reflex respiratory response to changes in upper airway pressure in the anaesthetised rat.
Journal of Physiology 2001; 537:251-265.

Skelly MM, O'Donoghue D P, Baird AW.
Oxygen metabolites in immune-stimulated ion transport in rat colon: modulation by taurine.
Digestion. 2001;63(2):124-9.

Shannon F, Devitt A, Poynton A, Fitzpatrick P, Walsh MG.
Short-term benefit of arthroscopic washout in degenerative arthritis of the knee.
International Orthopaedics 2001; 25: 242-245.

Stafford L, Kane D, Murphy E, Duffy T, Lassere M, Youssef P, Bresnihan B, FitzGerald O.
Psoriasis predicts a poor short-term outcome in patients with spondylarthropathy.
Arthritis Care & Research, 2001; 45: 485-493.

Thin AG, Linnane SJ, McKone EF, Freaney R, FitzGerald MX, Gallagher CG, McLoughlin P.
Use of the gas exchange threshold to non-invasively determine the lactate threshold in patients with cystic fibrosis.
Chest. In press.

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Pseudomembranes on collagenous colitis.
Histopathology. 2001;238(1):83-4.

Invited Reviews

- Clarke A,
Members of the European Latin American Public Health network.
Lessons learned in a European-Latin American collaboration to develop postgraduate education in public health.
European Journal of Public Health 2001;11:227-230.
- Costello P, FitzGerald O.
Disease mechanisms in psoriasis and psoriatic arthritis.
Curr Rheumatol. Rep 2001; 419-427.
- Doherty DG, O'Farrelly C.
Dendritic cells: regulators of hepatic immunity or tolerance?
Journal of Hepatology, 2001;34: 156-160.
- Duffy MJ.
Carcinoembryonic antigen as a marker for colorectal cancer: is it clinically useful?
Clin Chem 2001;47:624.
- Duffy MJ.
Biochemical markers in breast cancer: which ones are clinically useful?
Clin Biochem. 2001;34:347.
- Duffy MJ.
Clinical uses of tumor markers: a critical review .
Crit Rev Clin Lab Sci 2001;38:225.
- Duffy MJ.
Carcinoembryonic antigen as a marker for colorectal cancer: is it clinically useful?
Clin Chem. 2001;47(4):624-30
- Fearon U, Veale DJ.
Pathways of cell activation in spondyloarthropathies.
Curr Rheumatol Rev 2001;3(5):435-42.
- Fearon U, Veale DJ.
Pathogenesis of psoriatic arthritis.
Clin Exp Dermatol 2001;26(4):333-7

- Levy P, McNicholas WT. (Invited editorial).
Should all sleep apnoea patients be treated? Yes.
Sleep Medicine Reviews 2001; 6(1).
- McKenna TJ.
Eponymous Syndromes: Graves' Disease.
Lancet. 2001;357: 1793-96.
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Education and Research Centre Review

Grants Active in 2001

P.I.	Name of Study	Source of Grant	Fund Amount	Start Date	Finish Date
Prof. Barry Bresnihan/ Dr. Oliver FitzGerald	Early Arthritis Unit	HRB	€476,151 (£375,000)	1996	2001
Prof. Barry Bresnihan/ Dr. Oliver FitzGerald	Investigation into the production and regulation of ASAA in synovial membrane.	HRB Unit Grant Early Arthritis	€500,00 (£634,869)	1997	2002
Prof. Barry Bresnihan	Role of cytokines and growth factors in cartilage destruction in osteoarthritis.	EU Fifth Framework Programme Research Grant	€190,460 (£150,000)	2000	2003
Prof. Barry Bresnihan	Synovial pannus evaluation and cytokine-targeted therapy in rheumatoid arthritis (spectra).	Amgen	€634,870	2000	2005
Prof. J. Bannigan/ Dr. S. Giles/ Dr. R. Ettarh	Frozen Section Facility	HRB Project Grant	€46,700 (£36,000)	2000	2003
Dr. Joe Duffy	Anti-apoptotic gene, survivin in breast cancer.	Irish Cancer Society	€54,598 (£43,000)	2000	2003
Dr. Oliver FitzGerald	Molecular bases of HLA Class I Wellcome Trust association and of T cell repertoires in psoriatic arthritis.	Wellcome Trust	€22,855 (£18,000)	1998	2001
Dr. Charles Gallagher	Exercise limitations in Cystic Fibrosis.	HRB Project Grant	€20,315 (£16,000)	1999	2002
Dr. Charles Gallagher	Continuous positive airways pressure (CPAP), Intrinsic PEEP and exercise tolerance in cystic fibrosis	Cystic Fibrosis Association of Ireland	€45,700 (£36,000)	2000	2003
Dr. Charles Gallagher	Mechanisms of disability in Cystic Fibrosis	Cystic Fibrosis Research Trust	€38,092 (£30,000)	2001	2001

P.I.	Name of Study	Source of Grant	Fund Amount	Start Date	Finish Date
Dr. John Hegarty/ Dr. Cliona O'Farrelly/ Dr. Derek Doherty/ Dr. Dermot Kelleher/ Prof. William Hall/ Dr. Kingston Mills	Virus variants and host immune responses in the resolution and progression of chronic liver disease following Hep C virus infection.	HRB Unit Grant	€941,110 (£741,972)	1996	2001
Norelee Kennedy	NDA postgraduate research scholarship	National Disability Authority	€5,079 (£4,000)	2000	2001
Dr. J. Laffey	Investigation of the protective effects of hypercapnic acidosis in sepsis-induced acute lung injury.	Irish Lung Foundation	€25,394q (£20,000)		
Dr. Teresa Maguire	Relationships between Ets and proteases in breast cancer.	Irish Foundation for Breast Diseases	€50,789 (£40,000)l	1998	2001
Dr. Evelyn Murphy	Modulation of NURR1 activity in inflamed synovial tissue	EURLAR	€38,092 (£30,000)	2001	2004
Dr. Evelyn Murphy	Pathobiologic functions of Corticotropin-Releasing Hormone	HRB Project Grant	€88,881 (£70,000)	2001	2004
Dr. Evelyn Murphy	Role and regulation of corticotropin releasing hormone in human inflammatory arthritis.	HRB Project Grant	€50,789 (£40,000)	1998	2001
Dr. Evelyn Murphy	Transcriptional events in inflammatory arthritis.	HRB Project Grant	€148,560 (£117,000)	2000	2003
Dr. Cliona O'Farrelly/ Dr. Diarmuid O'Donoghue	Lymphoepithelial interactions in the gastrointestinal tract.	Basic Research Grant, Enterprise Ireland	€58,408 (£46,000)	1999	2001
Dr. Cliona O'Farrelly	Novel antimicrobial peptides from hen egg yolk.	Strategic Research Grant, Enterprise Ireland	€58,408 (£46,000)	1999	2001

Education and Research Centre Review

Grants Active in 2001

P.I.	Name of Study	Source of Grant	Fund Amount	Start Date	Finish Date
Dr. Cliona O'Farrelly/ Dr. John Hegarty	The molecular biology of hepatic T lymphocyte differentiation.	HRB Project Grant	€58,408 (£46,000)	1998	2001
Dr. Cliona O'Farrelly/ Dr. John Hegarty/ Prof. William Hall Conway Institute	TCR gene usage in human NKT cell populations.	Conway Institute	€76,1842 (£60,000)	2000	2002
Dr. Cliona O'Farrelly	Antimicrobial Factors in Hen Eggs	Extension to Dept Agricultural FIRM	€68,566 (£54,000)	2000	2001
Dr. Cliona O'Farrelly Dr. John Hegarty	Hepatitis C viral load quantification in lymphocyte sub-populations and correlation with CD81 expression: implications for treatment and prognosis.	HRB Project Grant	€76,184 (£60,000)	2000	2003
Lucy Golden-Mason/ C.O'Farrelly/ J.Hegarty	Hepatic Stem Cell Differentiation	HRB Fellowship	€101,579 (£80,000)	2001	2004
Dr. Cliona O'Farrelly, Dr. John Hegarty	Haematopoietic Stem Cells in Human Gut and Liver	HRB Project Grant	€57,138 (£45,000)	2001	2001
Dr. Cliona O'Farrelly/ Prof A.Strain, Birmingham University	Adult Stem Cells in Human Liver	Enterprise Ireland Ireland British Council	€2,540 (£2,000)	2001	
Dr. Cliona O'Farrelly	Antimicrobial activity in Hen Eggs, a Combined Bioinformatic, Biochemical and Molecular Biological Approach	FIRM Programme	€725,020 (£571,000)	2001	2004
Dr. Cliona O'Farrelly Dr. McDonald	NT Cells in human Bone Marrow; Implications for Tumour Surveillance	CRAB	€58,408 (£46,000)	1999	2002

P.I.	Name of Study	Source of Grant	Fund Amount	Start Date	Finish Date
Prof P. McLoughlin	The role of haemoxygenase in modulating vascular remodelling in chronic hypoxic and hypercapnic lung disease	HRB Project Grant	€60,947 (£48,000)	1998	2001
Prof P. McLoughlin/ Dr. C. O'Connor	The role of Rho A in the control of pulmonary vascular resistance in normal and chronically hypoxic lung disease	HRB Project Grant	€101,579 (£80,000)	2001	2003
Prof P. McLoughlin/ Dr. John Laffey	The Protective effect of hypercapnic acidosis in sepsis-induced lung injury	HRB Project Grant	€121,895 (£96,000)	2001	2003
Prof P. McLoughlin	NO mediated lung damage in chronic infection	PTRLI	€152,369 (£120,000)	2001	2004
Prof P. McLoughlin/ Prof. F. Martin (UCD) & Prof. T. O'Brien (NUIG) Prof. TJ McKenna	Gene Therapy Approaches to Human Disease in Pre-Clinical Models ACTH regulation of adrenocortical steroidogenesis.	PTRLI	€634,869 (£500,000)	2001 2000	2005 2003
Dr. W McNicholas	Pathophysiology of obstructive sleep apnoea	HRB Project Grant	€52,059 (£41,000)	1998	2001
Dr. W McNicholas/ Dr. P. Nolan/ M. O'Malley	"Novel bio-engineering methods to assess upper airway muscle fatigue in sleep apnoea"	HRB Project Grant	€105,388 (£83,000)	1999	2001
Dr. W McNicholas/ Dr. A. Bradford / Dr. P. Nolan	"Co-Investigator, in collaboration with - Pathophysiology of obstructive sleep apnoea"	European Union	€279,342 (£220,000)	2000	2003
Dr. W McNicholas	Co-Investigator, in collaboration with Dr. Philip Nolan - "Pathophysiology of sleep apnoea" Fellowship award to Dr. John Cullen.	HRB Fellowship	€73,645 (£58,000)	2000	2002

Grants Active in 2001



P.I.	Name of Study	Source of Grant	Fund Amount	Start Date	Finish Date
Dr. W McNicholas/ Dr. Philip Nolan	Capital equipment grant	HRB	€104,119 (£82,000)	2000	2003
Dr. W McNicholas	Pathophysiology of sleep apnoea	HRB Project Grant	€68,565 (£54,000)	2000	2002
Dr. W McNicholas/ Dr. Geraldine Connolly/ Dr. Peter McKenna	Sleep-disordered breathing in pre-eclampsia	Friends of the Rotunda Hospital (Dublin)	€25,395 (£20,000)	2001	2003
Dr. Diarmuid O'Donoghue/ Prof. Alan Baird	Mechanisms involved in Clostridium difficile adherence to Peyer's patch epithelium and its effect on epithelial cell function.	HRB Fellowship	€101,579 (£80,000)	2001	2003
Dr. Diarmuid O'Donoghue/ Dr Kieran Sheahan	Molecular analysis of Colorectal Cancer: It's role in detecting familial cancer and predicting response to chemotherapy	HRB Project Grant	€152,369 (£120,000)	2001	2004