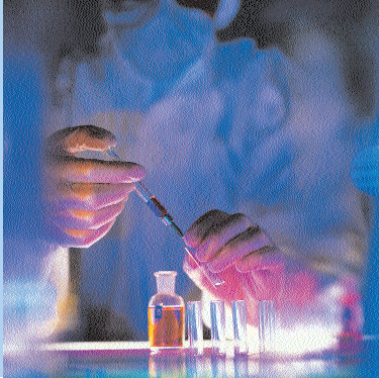




Annual Report and Accounts 2004
Health Research Board | An Bord Taighde Sláinte
Improving health through research and information



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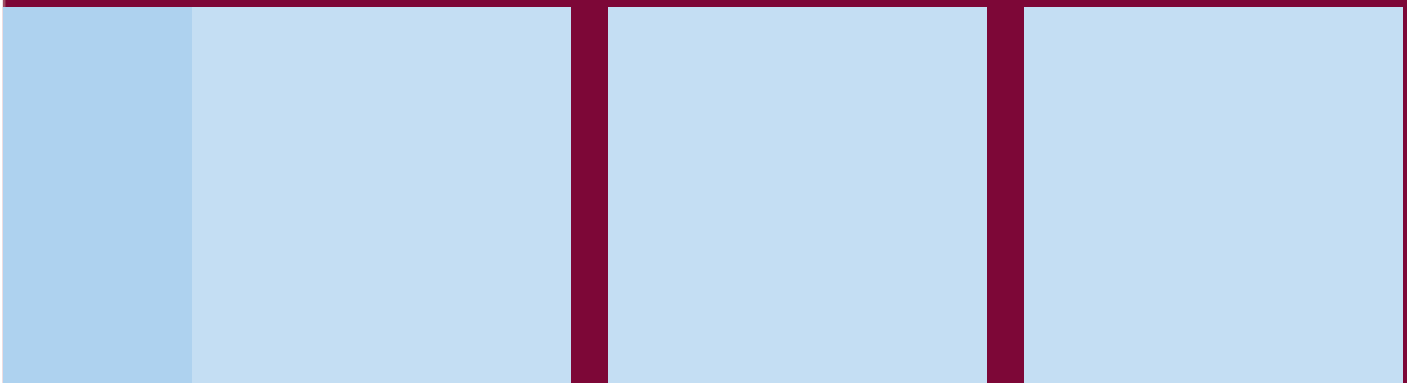
Annual Report and Accounts 2004
Health Research Board | An Bord Taighde Sláinte
Improving health through research and information

Mission

To improve health through research and information

In 2004 the Health Research Board continued to deliver successful results in line with the objectives set out in the Corporate Strategy 2002–2006:

- To encourage the creation and application of knowledge for health and social gain, the growth of intellectual property and evidence relevant to health and social gain and the emergence of a knowledge-based health system, economy and society.
- To be the lead national organisation in relation to support for scientific research for health and social gain, including basic and translational research, health services research, population health and practice-based research.
- To promote the growth of a value-added research and development capability in the health system, in partnership with other relevant health organisations.
- To impact on health and social policy and services through high-quality research and information.
- To be the main advocate for the development of research for health and social gain.
- To make the HRB an employer of choice in its field.



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Board Members in 2004

Prof Desmond Fitzgerald (Chairman)

Vice-President for Research
University College Dublin

Prof Dermot Barnes-Holmes

Department of Psychology
National University of Ireland, Maynooth

Ms Leonie Clarke

Scientific and Regulatory Affairs Manager
Irish Pharmaceutical Healthcare Association

Prof Owen Corrigan (from 19 February 2004)

School of Pharmacy
Trinity College Dublin

Prof Tom Cotter

Department of Biochemistry
University College Cork

Mr Niall Daly

McNulty Boylan and Partners, Solicitors
Cork

Mr Michael Griffith

Chief Executive Officer
Fighting Blindness/Research Charities Group

Prof William Hall

Professor of Medicinal Microbiology
University College Dublin

Mr Charlie Hardy

Principal Officer
Department of Health and Children

Prof Dermot Kelleher

Department of Clinical Medicine
Trinity College Dublin

Dr Kevin Kelleher

Director of Public Health
Mid-Western Health Board

Prof Paul McLoughlin (to 9 November 2004)

Department of Human Anatomy and Physiology
University College Dublin

Prof Tim O'Brien

Department of Medicine
National University of Ireland, Galway

Prof Tony Pembroke

Department of Chemical and Environmental
Sciences
University of Limerick

Prof Anne Scott

School of Nursing
Dublin City University

Prof Bob Stout

Research and Development Office
DHSSPS, Northern Ireland

Chairman's Statement

The re-organisation of the health service in 2004 provided an opportunity for the HRB to emphasise health research in the new Health Service Executive in the Health Bill 2004. Our aim was to establish a research culture in the new health service from the outset. We are delighted that health research is part of the HSE's new mandate and we will build strong working relations with the HSE into the future.

The appointment of an Tánaiste, Mary Harney TD, as Minister for Health and Children in 2004 provided another opportunity to make progress on building health research. The HRB prepared a proposal for an Investment Programme in Research for Health and Wealth that complements the investments of Science Foundation Ireland and the Higher Education Authority. The programme proposed to build research capacity in the health service by creating clinical research centres, appointing senior clinician scientists, developing bio banks and investing in programmes of research that would improve the health of people and so contribute to the wealth of Ireland.

This link between health and wealth is illustrated by improved productivity and the translation of basic biomedical research into new products to the benefit of patients and our indigenous industry. The Tánaiste and Minister for Health and Children received the proposal positively in December and a further meeting was arranged for early 2005 to discuss funding the programme.

Progress was made in the co-ordination of research activity across government agencies. The HRB welcomed the creation of the post of Chief Science Adviser with a mandate to increase coherence and co-ordination in government research activity. Following the case made by the HRB to the OECD review group on higher education, the HRB was pleased that the value its continuing contribution to supporting research was recognised in the review group's report to the government.

The HRB made an important contribution to the implementation of the EU Directive on Clinical Trials in Ireland. The implemented regulations reflected the consensus brokered by the HRB. However, the HRB continued to express concern at the manner in which the ethical review procedures under the regulations were implemented and made representations on the issue. At the end of the year, the Board was still concerned that the implementation of the Directive was creating difficulties for the conduct of clinical trials and making Ireland an unattractive place in which to do such trials.

The HRB continued its work on developing North–South initiatives in health research and in contributing to European and International initiatives. The Chief Executive, in her capacity as an Irish delegate to the European Strategy Forum for Research Infrastructure (ESFRI), was invited to chair the Steering Group on a Roadmap for European Research Infrastructure for Biological and Medical Sciences. This Steering Group is one of three established by the ESFRI to assist the member states and the European Commission take a more strategic approach in providing the research infrastructure.

I would like to take this opportunity to acknowledge the ongoing support and dedication of my fellow Board members. Their expertise and professionalism have been invaluable in helping to ensure that the HRB is improving health through research and information.

The hard work and commitment of HRB staff is evident throughout this report. I would like to thank them for their professionalism, dedication and support and look forward to working with them again in 2005.

Professor Desmond Fitzgerald, FRCPI

Chairman

Chief Executive's Report

In 2004, the HRB continued to focus on the mission to improve health through research and information. In an ongoing commitment to underpin the development of a leading health research structure and culture in Ireland, the HRB invested more than €27 million in some 300 projects and programmes to tackle key health challenges, help prevent illness and build capacity within the health system.

Two new schemes were announced during the year. The HRB Clinician Scientist awards will provide existing medical consultants with protected time to enable them to carry out high-level international research in areas of strategic interest to their hospitals. This is the first time that consultants in Ireland have been offered protected time to focus their expertise and experience completely on research and it is a critical step in bringing the benefits of research to patients and developing a world-class health service.

The introduction of the Strategic Health Research and Development awards to encourage and develop an innovative research culture across Irish health services will specifically address goals and priorities outlined in the national health strategy, *Quality and fairness: a health system for you*. Better health care is ultimately what people demand; health services, agencies and hospitals that take a partnership approach to research can help meet that demand. This award aims to help them to do exactly that.

The publication, *A picture of health: a selection of Irish health research 2004*, described in layman's terms just some of the most recent achievements in health research funded by the HRB. The publication was made available through libraries, the web and in hard copy and was well received by a wide range of target audiences.

It was also a busy year for in-house research. Groundbreaking work carried out in collaboration with Trinity College Dublin, the National Institute of Child Health and Human Development and the National Human Genome Research Institute in the United States, published in the *British Medical Journal*, revealed that a variation in a gene, which occurs in 50 per cent of the Irish population, increases the risk of developing a severe group of birth defects known as neural tube defects. Spina bifida is the commonest type of neural tube defect.

A published report examined the rise and fall of institutional care for mental health patients. This research provided an insight into how improved treatment, an increased awareness and understanding in society and more effective information systems have all been instrumental in changing the management of mental illness since 1750.

The HRB welcomed the publication of the new National Health Information Strategy which provides a much-needed framework for the future integration and governance of information resources. The strategy recognises the importance of high-quality information for health research and the need for a strong R&D function in the development of a world-class health service. The doubling of funding for information systems in the health budget in 2004 was also encouraging and indicates government commitment to progress.

During the year, HRB information systems continued to improve and develop. The impact of the information gathered from the National Intellectual Disability Database was acknowledged by the Minister for Finance, Brian Cowen, in his budget speech. This information had provided the evidence of service requirements and an additional ?900 million was allocated to services for people with intellectual disabilities over the following five years. This is a credit to the dedicated work of the team responsible for developing and maintaining the database.

The National Drug Treatment Reporting System, which is the main source of information on treated drug misuse, was developed and improved to increase its coverage and comprehensiveness. As a result, it will provide the most up-to-date information to improve policy and service planning.

Work continued to improve the efficiency and effectiveness of the HRB. An information and communications strategy was adopted and work commenced on a new website. A performance management development system was extended to all staff. Preparations were made for an organisational review of the HRB in 2005 that will measure progress against the objectives of the Corporate Strategy and identify a programme of quality improvements.

I would like to acknowledge the commitment of the staff of the HRB who invested so much experience, expertise and effort to meet targets and deliver on key performance indicators.

I would also like to extend my thanks and appreciation to the Chairman, Professor Desmond Fitzgerald, and to the Board members who have provided such capable leadership for the organisation and who are bringing the health research agenda to new level.

Ruth Barrington PhD

Chief Executive

Research funded by the HRB

Throughout 2004 the HRB engaged in a range of initiatives to support new research, to build research capacity and to evaluate and communicate the HRB contribution to health research, the outcomes of HRB-funded research and the growth of a knowledge-based economy.

Funding awarded

Funding awarded under *science for health* supports investigator-led research in the health, life and social sciences that improves our understanding of health and disease, and contributes to the discovery of improved therapies. The HRB made 108 research awards across ten schemes in 2004, from a total of 752 applications received. A further 150 awards were made to build capacity by means of student summer schemes and science writing workshops.

Two PhD training sites were introduced in a pilot scheme aimed at improving the quality of PhD training in health research by providing a broader education for young researchers and enhancing co-operation between postgraduate students in different research groups. The two pilot sites were established in the Institute of Molecular Medicine based at St James's Hospital and in the new Institute of Neuroscience on the main campus of Trinity College Dublin.

The HRB announced the first Irish Clinician Scientist Awards, a scheme to help medical consultants become involved in world-class research in areas that will have direct benefits for patient care. The scheme will provide existing medical consultants with protected time to enable them to carry out high-level international research in areas of strategic interest to their hospitals.

An evaluation of the general project grants scheme led to the restructuring of committees and the appointment of new panel members. The entire evaluation will be published as a report in 2005.

The second issue in the series, *A picture of health: a selection of Irish health research, 2004*, effectively promoted some key research outcomes from projects completed during the year. This popular presentation of research findings, in layman's terms, helps to make the benefits of health research known to a broader audience.

Funding awarded under *R&D for health* supports the development of a structure within the health system to support research and development, to encourage the application of knowledge to health problems and to increase the effectiveness of the health system in achieving its goals.

The HRB introduced Strategic Health Research and Development awards to help build capacity for R&D within the health services. Thirteen proposals were received and four awards were made to projects that were specifically linked to the goals and priorities of the health strategy.

A new Partnership scheme, similar to 'start up' grants in other countries, was announced and seven awards were made. This scheme will help support agencies that have no specific research funds and need a small award to get started, or that would benefit from a matched-funding arrangement.

The HRB issued a call for proposals to develop information systems that will underpin R&D capability in the health care setting in Ireland. A total of €2 million was made available to support these proposals through an innovative collaboration with the Health Information Unit of the Department of Health and Children.

Table 1 Summary of funding awarded in 2004

Award schemes 2004	No. of applicants	No. of awards
Research projects and programmes		
Project Grants – General	244	48
Project Grants – North–South Co-operation	12	3
Programme Grants	35	n/a
Partnerships Awards	43	7
Strategic R&D Awards	13	4
Infrastructure		
Capital and equipment	43	37
Health Information Systems Awards	7	6
Career development		
Clinician Scientist Awards	13	n/a
Post Doctoral Fellowships	43	6
Clinical Research Training Fellowships	46	6
Fellowships in Health Services Research	17	3
Clinical Research Fellowships in Nursing and Midwifery	21	3
Cochrane Fellowships	2	1
PhD Training Sites	15	2
Summer Students	106	43
NCI Summer Curriculum	27	18
NCI Nurses Clinical Trials Training	5	1
Cancer Prevention Fellowships	10	2
Training and workshops		
Training and Workshops		
HRB / British Council science writing workshops (* Refers to places at the workshops) (places)	170	80
Cochrane three-day course on systematic review	99	48
Total	971	318

n/a: numbers not available at time of writing

Building capacity for health research

In 2004, the HRB led a number of different support schemes for researchers and health professionals and provided seminars and training courses to build capacity by supporting careers, training and infrastructure.

Working in partnership

The HRB secured a contract with Wiley, the new publishers of the Cochrane Library, that gives Irish researchers free online access to the library for the next three to five years. A third round of Cochrane Fellowships was successfully launched, which will help to further promote evidence-based decision-making within the health system.

The briefing document *Youth suicide prevention: evidence briefing* was published as a result of the fruitful collaboration of the UK/Ireland Public Health Evidence Group. The HRB is now working with the Health Development Agency in the UK and the Institute of Public Health in Ireland to devise training opportunities to conduct different types of public health evidence briefings and produce related bulletins.

The Ireland–Northern Ireland–National Cancer Institute Cancer Consortium had a successful year. There was the first major review of hospitals that had been supported by the Consortium to conduct cancer clinical trials. A conference on obesity and cancer hosted by the HRB on behalf of the Consortium was also a great success. The conference provided a platform to present the most recent research about the influence of obesity on cancer. The findings will assist the task forces on obesity on the island of Ireland to highlight the link between obesity and cancer. Discussion groups provided the opportunity to identify measures to reduce the incidence of obesity and for people to put forward issues that the Cancer Consortium could focus on for further research in relation to obesity and cancer.

A common set of performance indicators for research projects and programmes was developed in collaboration with other agencies through the Standing Committee of Research Funding Bodies.

Working with the Association of Medical Research Charities, the HRB also had a critical role in producing a proposal to secure lottery funding for health research.

Training

Future in focus seminar

The ‘*future in focus*’ seminar addressed ways to build research and development capability in the health services. The aim was to show how Ireland can lead an effective research and development programme that will have a real impact on human health, and to help maintain a focus on the development of a research culture at a time of major reform in the Irish health system.

Grant-application writing workshops

In an innovative approach to developing research capacity within the health services, the HRB introduced a series of workshops to support and advise potential applicants how to present an effective research proposal.

Science writing workshops

Two workshops aimed at improving researchers’ writing skills were hosted in collaboration with the British Council. These workshops are an excellent opportunity for young researchers to improve their ability to communicate research findings effectively.

National Information Systems

The HRB manages five national information systems which provide high-quality information for the planning, monitoring, and evaluation of health services for disability, drug misuse and mental health. These are an invaluable source of information for further research. The HRB plays a vital role in the organisation and development of the information systems, ensuring validity and reliability of data returns, analysing and reporting on the data and disseminating information and research findings to relevant stakeholders.

National Physical and Sensory Disability Database

The first report from this database was published in 2004 and a number of measures were taken to make the database easier to use. Centralised web-based software was introduced which will provide a 'live' database for reference by the Department of Health and Children and the Health Service Executive for service planning. A system was also introduced to enable service providers to update their database entries by telephone.

National Intellectual Disability Database

For the first time, the NIDD annual report was published in the same year as the data was gathered. This means that decisions about service provision in 2005 could be based on the most up-to-date information available. The value of the database for planning purposes was strongly endorsed by the Minister for Finance in his budget speech in November 2004, when €900 million was allocated for services to people with intellectual disability. Regional bulletins were produced to help ensure that each health board could clearly identify key findings and service requirements for their area.

The national competition to design the cover of the NIDD report attracted more than 300 entries of art work from service users nationwide. The winner was Tommy McGrath from the Sisters of Charity of Jesus and Mary service in Delvin, Co Westmeath.

A centralised, web-based software system was implemented for the NIDD, based on the success of a similar initiative for the NSPDD.

Throughout the year, training was provided to encourage and support the regional use of both disability databases and to ensure that users could produce reports and interpret the information effectively. A protocol governing access to both databases at national and regional levels was introduced in order to safeguard the security of information.

National Drug Treatment Reporting System

Information from the NDTRS was used to examine trends in the dual use of heroin and cocaine, trends in problem cannabis use, characteristics of injectors who delay treatment seeking for heroin or cocaine use, and incidence of alcohol misuse. Active efforts were made to encourage and develop GP participation in the NTDRS, which will help ensure more complete datasets. An Access database was developed to enable direct data entry by the staff providing the service to people presenting for treatment for drug misuse.

A range of research reports based on information from the NTDRS was published during the year. These reports analysed trends in treated drug misuse outside the greater Dublin area (Dublin, Kildare and Wicklow).

Working closely with key Irish agencies, the HRB helped to address priority information needs in the area of drug misuse in Ireland. A number of HRB researchers were active participants on the National Advisory Committee on Drugs.

National Psychiatric In-patient Reporting System (NPIRS)

Work continued to promote the return of NPIRS data every three months. A number of initiatives were taken with a view to supporting the accurate and timely submission of data, including training, providing software for data entry in two facilities and giving support to eleven sites using HRB software. Promotion is ongoing to encourage further computerisation of the NPIRS.

An annual report based on data collected from the NPIRS system was published in December. Regional bulletins were also produced to help facilitate decisions on service provision at a local level. Time was invested to ensure that members of the research community could use the data taken from this database effectively.

Community Care Database

In response to changing patterns of care for patients with a mental illness, the HRB has developed a new database, called COMCAR, designed to record activity at community care level, including outpatient clinics, day centres and day hospitals.

The COMCAR database has been customised and is being used by a number of services around the country. Currently, a version of COMCAR is being developed for use in outpatient clinics and day hospitals. During 2004, the first such pilot site was recruited to test this system.

In-house research

Child health

Research in pregnancy and child health is carried out in the Child Health Epidemiology Research Division. Current research focuses on neural tube defects, orofacial clefts and other congenital malformations.

The division is involved with the National Institute of Child Health and Human Development in the United States and Trinity College Dublin in a collaborative research programme on congenital malformations and other adverse pregnancy outcomes. Findings from this research, published this year in the *British Medical Journal*, revealed that a variation in a gene which controls an enzyme involved in the processing of folic acid, and which occurs in 50 per cent of all babies, increases the risk of developing spina bifida and other neural tube defects.

Fortunately, the increased risk caused by this gene variation can be greatly reduced if the mother takes folic acid before and during early pregnancy. These findings highlight the importance of public health intervention programmes to inform women of child-bearing age about folic acid supplementation and food fortification.

Groundbreaking research from this research team showing the relationship between folate/folic acid intake, maternal blood levels of folate in early pregnancy and risk of having a pregnancy affected by NTD has provided the scientific basis for the folic acid food fortification programmes that are now either in place, or planned, in 39 countries including the US and Canada. In Ireland, the discovery is also informing public health policy and the fortification of a staple food, like flour, with folic acid is now being considered.

Mental health

The publication in 2004 of *Mental Illness in Ireland 1750-2002: Reflections on the rise and fall of institutional care* was the culmination of a long period of research. This work describes how, over the past 250 years, increased social consciousness, new approaches to treatment, improved public understanding and more effective information systems have all been instrumental in bringing about improvements in the treatment of mental illness. Understanding of the processes at work in this de-institutionalisation was based on research using information that is now available through the HRB National Psychiatric In-patient Reporting System, which provides a detailed and comprehensive evidence base that helps to explain trends over time.

Community residence study

The functioning of community residences and their operational role in providing a service for residents is the focus of a new study that is being co-funded by the Mental Health Commission. The views and opinions of residents about how the community residences are run, as well as their satisfaction with current service provision and policy, provide the core evidence for the study. The study will assess the manner and degree to which a sample number of regional health areas provide for, and meet the needs of, residents, with particular emphasis on their capacity to resettle residents in independent community living. The final report will be published at the end of May 2006.

Drug misuse

A report was published on the demand for treatment for problem alcohol use in the South-Eastern and Southern Health Board areas in Ireland. The analysis found that existing methods for collecting data on treated drug misuse can also be used to collect reliable data on problem alcohol use. It also confirmed that the exclusion of alcohol from reporting systems leads to an under-estimation of problem substance use and of the workload of addiction services.

In-house research on the extent, patterns and trends in drug misuse in Ireland contributed significantly to the 2004 annual report of the United Nations International Drug Control Programme.

The newsletter, *Drugnet Ireland*, disseminated key research findings, information and news in three issues published during the year.

European research

The drugs division is the Irish focal point of the REITOX information network of the European Monitoring Centre for Drugs and Drug Addiction (EMCDDA). Research and information on the drug situation in Ireland is compiled and sent to the EMCDDA on a number of topics.

Ongoing work in this area includes:

- maintaining the Irish contribution to the European Database on Demand Reduction Activities
- developing the five existing epidemiological key-indicators of drug misuse with a view to improving national data sources and increasing the comparability of Irish and EU data
- collaborating with other focal points in the REITOX network on the conceptualisation of new indicators of drug misuse and the identification of new areas for research
- Providing national reports and information exchange on the drug situation in Ireland to the EMCDDA and helping to disseminate this information in Ireland.

Underpinning research – the National Documentation Centre on Drug Use (NDC)

The NDC is a unique information resource providing Irish researchers with access to electronic and hard-copy research documentation on all aspects of drug use. This library is an important support to researchers.

During 2004 the library raised its profile and built up its capacity by:

- adding to the NDC database records of all available theses on the subject of drug use
- increasing the NDC library collection to 2,500 volumes
- introducing a database of current research on drug use in Ireland and publishing the contents of this database on the NDC website
- developing and enhancing the NDC's information services to ensure an efficient, thorough and well-presented delivery of information to library users
- taking an active role in relevant professional organisations.

Corporate Services

Great strides were made in applying best practice in corporate governance within the organisation during 2004. An internal audit examined HRB purchasing procedures, and both the HRB's responsibilities under the Ethics in Public Office Act and the legal responsibilities of Board members were clarified. A formal risk-management policy was also introduced.

On the information technology side, the HRB adopted an ICT strategy and implementation plan; a number of the key measures have been implemented. Work on the redevelopment of the website was well under way in preparation for a launch in early 2005.

Finance

Following a modest increase in the revenue budget in 2004, the HRB pressed for additional capital funding and was able to make an unprecedented €7 million in competitive, peer-reviewed awards available to the research community for equipment and research-information systems.

A range of new systems was developed and implemented to improve efficiency and streamline processes in the finance function. An SAP accounting system was installed to enhance all reporting functionality, including invoicing, banking and suppliers; this was complemented by an electronic invoice system for suppliers and a system called '*Mentec*', which reduces time spent processing expenses. The grants database was also developed to produce invoices showing how much was due to grant holders. This is reducing reliance on paper records.

Communications

Given the current climate of change in the health services and within the research area in general, it is vital that the HRB role and vision are clearly communicated to ensure that its unique position is recognised.

This was achieved successfully through effective event management, production and profiling of publications and a sustained media campaign. A media-analysis report, comparing year-on-year coverage and detailing numbers of articles, volume of coverage by media type and the advertising value equivalent, showed that the total number of press articles increased by 30 per cent on the 2003 figure.

HR and organisational development

Further progress has been made in introducing new policies, procedures and systems to underpin effective operations and enhance the HRB's position as an employer of choice.

A performance management and development system was fully implemented and documented and all staff produced individual development plans linked to key competencies related to the efficient delivery of their work plans. The aim of these plans is to ensure that training and development underpins the delivery of key objectives, to develop the skills base across the organisation and to assist in staff development.

Significant preparations were made for the organisational review that will take place in 2005. A pilot self-assessment review by one of the divisions was helpful in defining relevant areas for review. The key areas identified included strategic planning, leadership and team-building, quality business processes, customer-focused services, managing performance, and recruitment and selection. The review process will start officially with self-assessment in January 2005

Quarterly communications meetings were introduced for staff during the year in response to a demand for improved internal communications. These were successful and provided a good opportunity for staff to meet and find out more about organisational achievements and what was happening outside their own area of work.

List of HRB publications

- Curran B and McCarthy AM (2004) *A picture of health: a selection of Irish health research 2004*. Dublin: Health Research Board.
- Condell S (2004) Journeying to professionalism: the case of Irish nursing and midwifery research. *International Journal of Nursing Practice*, 19(4) 145–149.
- Barrington R (2004) *Poverty is bad for your health*. Discussion Paper 5. Dublin: Combat Poverty Agency.
- Barron S and Mulvany F (2004) *Annual report of the National Intellectual Disability Database Committee 2003*. Dublin: Health Research Board.
- Barron S and Mulvany F (2004) *Annual report of the National Intellectual Disability Database Committee 2004*. Dublin: Health Research Board.
- Gallagher P and Mulvany F (2004) Levels of ability and functioning: using the WHODAS II in an Irish context. *Disability and Rehabilitation*, 26(9): 506–17.
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- Federation of Voluntary Bodies providing services to people with intellectual disability (2004) *Analysis of need document for services and supports for people with intellectual disability 2005–2008*. Galway: Federation of Voluntary Bodies.
- Kelleher T, Long J, Kelly F and Sinclair H (2004) *Trends in treated problem cannabis use in the seven health board areas outside the Eastern Regional Health Authority, 1998 to 2002*. Occasional Paper 14. Dublin: Health Research Board.
- Long J, Kelleher T, Kelly F and Sinclair H (2004) *Trends in treated problem opiate use the seven health board areas outside the Eastern Regional Health Authority, 1998 to 2002*. Occasional Papers No.13. Dublin: Health Research Board.
- Long J, Kelleher T, Kelly F and Sinclair H (2004) *Trends in treated problem drug use in the seven health board areas outside the Eastern Regional Health Authority, 1998 to 2002*. Occasional Paper No. 12. Dublin: Health Research Board.
- Long J, Kelleher T, Kelly F and Sinclair H (2004) *Treatment demand in the seven health board areas outside the Eastern Regional Health Authority, 1998 to 2002*. Occasional Paper No. 11. Dublin: Health Research Board.
- Long J, Jackson T, Kidd M, Kelleher T and Sinclair H (2004) *Treatment demand for problem alcohol use in the South Eastern and Southern Health Board areas, 2000 to 2002*. Occasional Paper No. 10. Dublin: Health Research Board.
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- Messias E, Kirkpatrick B, Bromet E, Ross D, Buchanan RW, Carpenter WT Jr, Tek C, Kendler KS, Walsh D and Dolfus S (2004) Summer birth and deficit schizophrenia: a pooled analysis from six countries. *Archives of General Psychiatry*, 61(10): 985–989.

Sullivan PF, Walsh D, O'Neill FA and Kendler KS (2004) Evaluation of genetic substructure in the Irish Study of High-Density Schizophrenia Families. *Psychiatry Genetics*, 14(4): 187–189.

Walsh D and Daly A (2004) *Mental illness in Ireland 1750–2002: reflections on the rise and fall of institutional care*. Dublin: Health Research Board.

Daly A and Walsh D (2004) *Psychiatric Reporting System Bulletin*. Issue 4. Dublin: Health Research Board. (One copy produced for each Health Board)

Kirke PN, Mills JL, Molloy AM, Brody LC, O'Leary VB, Daly L, Murray S, Conley M, Mayne PD, Smith O and Scott JM (2004) Impact of the MTHFR C677T polymorphism on risk of neural tube defects: case-control study. *British Medical Journal*, 328(7455) pp. 1535-36.

Health Research Board

Extract from the Financial Statements

Revenue Income and Expenditure Account for the year ended 31 December 2004

	2004	2003
	€	€
Income		
Department of Health and Children revenue grant	14,953,000	14,342,000
Other research funding	1,948,534	2,321,517
Projects undertaken for the Department of Health and Children	6,058,873	5,977,679
Interest receivable	45,736	32,919
Rental income	33,887	-
	<u>23,040,030</u>	<u>22,674,115</u>
Expenditure		
Research Funding and Policy	13,846,741	14,486,081
Child Health Epidemiology	1,094,160	1,370,179
Drug Misuse Research	824,637	742,017
Mental Health Research	498,162	703,616
Disability Databases	417,966	368,531
R&D for Health	4,327,904	3,106,333
Administration costs and general overheads	1,983,982	1,820,220
Pensions paid to retired members of staff	30,111	33,546
Other activities	-	52,484
	<u>23,023,663</u>	<u>22,683,007</u>
Surplus/(deficit) for the year	<u><u>16,367</u></u>	<u><u>(8,892)</u></u>

Capital Income and Expenditure Account for the year ended 31 December 2004

	2004	2003
	€	€
Income		
Department of Health and Children capital grant	7,677,490	4,564,910
Amortization of capital fund account	142,284	151,630
	7,819,774	4,716,540
Expenditure		
Equipment grants paid to third parties	7,472,138	3,550,773
ICT development	113,156	107,761
Contribution to fixed assets	19,235	187,697
Maintenance of premises	72,961	718,679
Depreciation	142,284	151,630
	7,819,774	4,716,540
Surplus/(deficit) for the year	-	-

Health Research Board

Balance sheet as at 31 December 2004

	2004	2003
	€	€
Fixed Assets		
Tangible assets	<u>451,083</u>	<u>581,312</u>
Current assets		
Debtors	867,215	2,384,345
Investments	641	641
Cash at bank and on hand	4,724,905	2,173,434
	<u>5,592,761</u>	<u>4,558,420</u>
Current liabilities		
Amounts falling due within one year:		
Creditors and deferred income	5,514,938	4,496,964
	<u>5,514,938</u>	<u>4,496,964</u>
Net current assets	<u>77,823</u>	<u>61,456</u>
Net assets	<u>528,906</u>	<u>642,768</u>
Reserves		
Accumulated surplus on income and expenditure account	77,823	61,456
Capital fund	451,083	581,312
	<u>528,906</u>	<u>642,768</u>

HRB participation in national, European and international groups and committees

The Health Research Board invests a significant amount of time contributing to a wide variety of national, European and international bodies. These include:

- Addiction Services Performance Management Group
- Ad hoc group of European Nurse Research Developers
- Association of Medical Research Charities
- National Disability Authority – Advisory Group
- Development Co-operation Ireland
- Drug Treatment Services in Prisons Research Group
- EMRC standing committee of the European Science Foundation
- Environmental Protection Agency
- European Monitoring Centre for Drugs and Drug Addiction
- Expert Group on Mental Health Policy
- HEA Infrastructures Group
- Health Implementation Committee of the National Drugs Strategy, Department of Health and Children
- Hepatitis C Scientific Advisory Subgroup of the Blood Borne Virus Forum
- Institute of Public Health in Ireland
- Irish College of General Practitioners
- Irish Council for Bioethics
- Irish Forum on Global Health
- Irish Health Sciences Library Group
- Irish Internet Association
- Irish Evaluation Network
- Irish Society of Clinical Research Professionals
- Mental Health advisory subgroups, including: Research and Information; Manpower, Education and Training; Mental Health Services for Later Life; Forensic Mental Health Services; Services for eating disorders; Child and Adolescent Psychiatric Service Working Group;
- National Intellectual Disability Database Committee
- National Physical and Sensory Disability Database Committee
- National Intellectual Disability Database Regional Database Administrators' Group
- National Physical and Sensory Disability Database Regional Database Administrators' Group
- National Monitoring Committee overseeing the State investment programme in intellectual disability services

- National Advisory Committee on Drugs – Sub-committees on Prevalence, Treatment, Consequences, Early Warning and Emerging Trends
- Nursing Research Development Group
- Pompidou Group
- Research and Development Office, DHSSPS, Northern Ireland
- Science Foundation Ireland
- Standing Committee of Research Funding Bodies
- The Cystinosis Foundation

Grant Holder**Title****Clinical Research Training Fellowships****Dr Anne Marie Mc Laughlin**

Department of Medicine and Therapeutics
University College Dublin
155,956.29

The CATT-repeat polymorphism in human MIF promoter confers genetic susceptibility to enhanced innate responses via upregulation of TLR4 expression

Dr Sarah Roxburgh

Department of Medicine and Therapeutics
University College Dublin
143,246.05

Glucose and Cytokine-induced tubulointerstitial fibrosis in Diabetic Nephropathy: a genomic and in vivo approach towards identifying novel therapeutic targets.

Dr Aaron Yie Loong Liew

Department of Medicine
National University of Ireland, Galway
151,848.19

eNOS expressing EPCs: A combined gene and cell therapy approach to diabetic ischaemia

Dr Ceara Walsh

Department of Rheumatology
University College Dublin
148,146.05

Withdrawal of anti-TNF therapy in patients with rheumatoid arthritis in clinical remission: can maintenance of remission be predicted?

Dr Ronan Mullan

Department of Rheumatology
University College Dublin
110,909.74

Mechanistic effects and clinical applications for the acute phase protein serum amyloid A in rheumatoid arthritis.

Dr Suzanne Timmons

Department of Biochemistry
University College Cork
157,458.03

Investigation of the IGF-1R / Akt/ PTEN signalling pathway in age-related neurodegenerative dementing disorders and in the transgenic mouse Alzheimer model

Health Services Research Fellowships**Ms Rosaleen McElvaney**

Department of Psychology
Trinity College Dublin
165,779.55

Child sexual abuse disclosures: inhibiting, facilitating and mediating factors

Dr Avril Hegarty

Department of Mathematics and Statistics
University of Limerick
161,679.55

Geographical trends in cancer rates in Ireland and identification of cancer hotspots

Ms Deirdre Mary Browne

Department of Oral Health and Development
University College Cork
178,829.55

The impact of enamel fluorosis on dental aesthetics and quality of life

Grant Holder	Title
Clinical Research Training in Nursing and Midwifery	
Ms Margaret McKiernan School of Nursing and Midwifery University College Cork 53,945.60	Family members' lived experience in the intensive care unit
Ms Catherine O'Neill School of Nursing Royal College of Surgeons in Ireland 55,545.60	Troubling issues: towards a sociology of health care ethics in the care of older patients within an organisational context
Ms Georgina Gethin School of Nursing Royal College of Surgeons in Ireland 170,439.55	A study of the use of Manuka honey in venous leg ulceration
Post-Doctoral Research Fellowships	
Dr Kimberlee Mix Department of Veterinary Biochemistry and Physiology, University College Dublin 183,379.55	Regulation of matrix metallo-proteinase gene expression by the orphan receptor NURR1
Dr Graham Pidgeon Department of Zoology Trinity College Dublin 183,069.55	COX-isoforms and prostaglandins in an hypoxia-induced model of pulmonary hypertension
Dr Adrian Dervan Department of Zoology Trinity College Dublin 183,069.55	To investigate the ability of the regenerating spinal cord to alter the extracellular environment of the wound site following injury
Dr Rosemary Kane Department of Medicine and Therapeutics University College Dublin 183,829.55	The role of Vetroptin, a BMP antagonist, in diabetic retinopathy
Dr Annette Rünker Department of Genetics Trinity College Dublin 183,829.55	Bi-directional signalling by Semaphorin 6A and Plexin A2 interaction?
Dr Jacintha O'Sullivan Centre for Colorectal Disease University College Dublin 182,868.55	Role of genomic instability in promoting colorectal cancer development in ulcerative colitis

Grant Holder**Title****Cancer Prevention Fellowships****Dr Sharon Glynn**

National Institute for Cellular Biotechnology
 Dublin City University
 139,073.00

Dr Gwen Murphy

Department Clinical Medicine
 Trinity College Dublin
 124,828.00

Cochrane Fellowships**Ms Joanne Callinan**

St Vincent's Centre
 University College Dublin
 41,063.00

Bans on smoking for reducing tobacco consumption
 and smoking prevalence

Training grants for nurses to attend NCI Cancer Clinical Trials**Ms Eileen Hanly**

Oncology Clinical Trials Unit
 Cork University Hospital

PhD Training sites**Professor Dermot Kelleher**

Department of Clinical Medicine
 Trinity College Dublin
 999,959.80

Molecular medicine - from genes to function

Professor Marina Lynch

Department of Physiology
 Trinity College Dublin
 935,590.10

From basic neuroscience to clinical applications: an
 integrated PhD programme

Training Grants to attend NCI Summer Curriculum in Cancer Prevention**Dr John Cuddihy**

Department of Public Health
 North Western Health Board

Principles and practice of cancer prevention and
 control

Ms Catherine Feheny

St Luke's Institute for Cancer Prevention
 St Luke's Hospital

Principles and practice of cancer prevention and
 control

Ms Jennifer Kerlin

Haematology and Oncology Department
 St James's Hospital

Principles and practice of cancer prevention and
 control

Grant Holder**Title****Ms Fidelma McHale**

Planning, Commissioning and Change
Eastern Regional Health Authority

Principles and practice of cancer prevention and control

Ms Eileen O'Donovan

Planning, Commissioning and Change
Eastern Regional Health Authority

Principles and practice of cancer prevention and control

Ms Niamh O'Rourke

Planning and Development
East Coast Area Health Board

Principles and practice of cancer prevention and control

Ms Siobhan Reynolds

Research Nurse
National Cancer Registry

Principles and practice of cancer prevention and control

Dr James Canavan

Department of Gastroenterology
Beaumont Hospital

Molecular prevention

Dr Glen Doherty

Department of Clinical Pharmacology
Royal College of Surgeons in Ireland

Molecular prevention

Dr Kathy Gately

Institute of Molecular Medicine
Trinity College Dublin

Molecular prevention

Dr Jan Leyden

GI Unit
Mater Misericordiae University Hospital

Molecular prevention

Dr Sharon O'Toole

Department of Obstetrics and Gynaecology
Trinity College Dublin

Molecular prevention

Dr Derek Power

General Internal Medicine Department
Beaumont Hospital

Molecular prevention

Dr Anthony Staines

Department of Public Health
University College Dublin

Molecular prevention

Gwen Murphy

Cancer Prevention Institute
Trinity College Dublin

Principles and practice of cancer prevention and control, and molecular prevention

Grant Holder**Dr Fiona Gilchrist**

Biosciences Institute
University College Cork

Ms Elaine Glynn

Health Promotion
Irish Cancer Society

Summer Studentships**Mr Fergal Martin**

National University of Ireland,
Maynooth
1,280.00

Mr Ashwin Kaniah

University College Dublin
1,280.00

Ms Maria Pertl

Trinity College Dublin
1,280.00

Ms Gaiatri Sadacharam

University College Dublin
960.00

Ms Yvonne McCarthy

Trinity College Dublin
1,280.00

Mr Tomas O'Neill

University College Dublin
1,280.00

Ms Rachel Eckel

Royal College of Surgeons in Ireland
1,280.00

Mr Stephen Chu

Royal College of Surgeons in Ireland
1,280.00

Ms Sinead O'Donoghue

University College Dublin
1,280.00

Ms Naoimi Smith

Trinity College Dublin
1,280.00

Title

Principles and practice of cancer prevention and control, and molecular prevention

Principles and practice of cancer prevention and control, and molecular prevention

Adaptive evolution in the human genome

Inhibition of the cell cycle regulator 14-3-3 σ by anti sense RNA in breast cancer cells

Comparison of performance on the Mini Mental State Examination (MMSE) and on a battery of standardised cognitive tasks in acquired aphasia following left cortical stroke

Establishment of an electronic database for coroners, with an emphasis on the extraction of alcohol level data in relation to fatal road traffic accidents

Analysis of the synergism between age and exogenously-administered IL-1 β

Breast cancer in the south east: an analysis of its presentation and management

MUNC 18 0 syntaxin and exocytosis in T lymphocytes

Investigation of axonal density in dorsolateral prefrontal cortex and white matter in schizophrenia and bipolar disorder

Evaluation of impact of smoking cessation service and the recent anti-smoking legislation. A hospital cross-sectional study of patient smoking status and chart documentation

Characterisation and validation of a new monoamine oxidase assay

Grant Holder**Ms Aileen Shaw**

University College Dublin
1,280.00

Ms Sinead Kelly-Keating

University College Dublin
1,280.00

Ms Euridicky Fera

University College Dublin
1,280.00

Ms Elma O'Reilly

University College Dublin
1,280.00

Mr Derek Hennessey

University College Dublin
1,280.00

Ms Roisin McGowan

Trinity College Dublin
1,280.00

Ms Penny Chai

University College Dublin
1,280.00

Ms Joy Jimmy Etom

University College Cork
1,280.00

Ms Maria Twomeny

University College Cork
1,280.00

Ms Aoife Jackson

National University of Ireland, Galway
1,280.00

Mr Eamonn O'Raghallaigh

University College Dublin
1,280.00

Ms Amy O'Higgins

Royal College of Surgeons in Ireland
1,280.00

Title

The impact of Latissimus Dorsi mini flap reconstruction on the shoulder movement and quality of life in breast cancer patients undergoing breast conservation therapy

Impact on smoking cessation since the implementation of the smoking ban legislation

Matrix metalloproteinase (MMP) activity in the thrombus of ruptured and non-ruptured abdominal aortic aneurysms

An investigation of novel roles for G1-phase cyclins and cyclin-dependent kinases in neuroblastoma invasiveness

The effects of HMG co-enzyme A reductase inhibitors on human neutrophil function and persistence

The characterisation of enhanced life maintenance genes in the nematode *Caenorhabditis elegans*

The effects of ethanol on neurodevelopment: antagonism with 1-Octanol

Screening of candidate genes for Kjellin Syndrome a rare form of hereditary spastic paraplegia in two Irish families

Screening of candidate genes for Restless Legs Syndrome in a newly identified locus

Evaluation of touch imprint technology on sentinel lymph node biopsies

Modulation by p-methoxymethamphetamine (PMMA) of in vitro neuronal and vascular responses to 5 hydroxytryptamine and noradrenaline

Synthesis of a novel class of dinuclear platinum, dinuclear ruthenium and hetrodinuclear platinum/ruthenium compounds as potential anti-cancer agents

Grant Holder	Title
<p>Mr Brian Hayes University College Dublin 960.00</p>	<p>A custom designated electronic database for real time collection of information during cardiopulmonary resuscitation</p>
<p>Mr Vikrum Malhotra Royal College of Surgeons 1,280.00</p>	<p>The effects of cyclooxygenase 2 on cell proliferation in colorectal cancer in Ireland</p>
<p>Ms Eng Keong Tan University College Dublin 1,280.00</p>	<p>Immunohistochemical colocalisation of Histamine H3 Receptors with the neuroplastic marker NCAM PSA in the hippocampal formation of naive and H3 antagonist-treated animals</p>
<p>Mr Erik Pearson Royal College of Surgeons in Ireland 1,280.00</p>	<p>Characterisation of neural apoptic pathways as a result of Obstructive Sleep Apnea</p>
<p>Ms Lorna Stanley University College Cork 1,280.00</p>	<p>The management of crisis pregnancy within general practice</p>
<p>Ms Anne Bartels National University of Ireland, Galway 1,280.00</p>	<p>Categorisation of twin pregnancy at UCHG from 1 January 1991 to 31 December 2003</p>
<p>Mr Robert Moran University College Dublin 1,280.00</p>	<p>The role of PKB/Akt activation in cell culture models of tubulointerstitial fibrosis: relevance for diabetic nephropathy</p>
<p>Mr Ronan O'Leary University College Cork 1,280.00</p>	<p>A characterisation of HMGB1 expression in normal and inflamed human colon</p>
<p>Ms Rachel Duignan National University of Ireland, Galway 1,280.00</p>	<p>Magnetic resonance spectroscopy in the management of prostate cancer</p>
<p>Ms Orla Dunlea University College Dublin 1,280.00</p>	<p>Resective surgery for epilepsy in the Irish population between 1988 and 2002: outcome, long-term follow up and the impact of MRI and surgical technique on outcome</p>
<p>Ms Yvonne Corrigan Royal College of Surgeons in Ireland 800.00</p>	<p>Optimisation of paediatric radiological examinations</p>
<p>Ms Emer O'Leary University College Cork 1,280.00</p>	<p>To investigate the prevalence and severity of root dentine sensitivity before and one month after non-surgical periodontal therapy</p>

Grant Holder**Ms Sandra Malynn**

Trinity College Dublin
1,280.00

Ms Liza-Jane Pringle

University College Dublin
1,280.00

Ms Zeenat Bibi Nawoor

University College Dublin
1,280.00

Mr Conor Lahiff

University College Dublin
1,280.00

Ms Lisa Creed

Trinity College Dublin
1,280.00

Ms Chiu See Hee

University College Dublin
1,280.00

Mr Eadaoin Griffin

Trinity College Dublin
960.00

Title

Modulation of dendritic cell activation by adenylate cyclase toxin from *Bordetella pertussis*

Distribution of haemoglobin in the early chick area vasculosa

Iodine studies in pregnancy

Role of telomeres and telomerase in colorectal cancer

An examination of how diabetes is managed across the social spectrum

Investigation of the upregulation of the early growth response gene family by neutrophils

An investigation of levels of circulating growth factors after acute and chronic exercise in humans

PROJECTS & PROGRAMMES**Research Project Grants-General****Dr Douglas Veale**

Department of Rheumatology
University College Dublin
171,978.00

Role of angiotensins in inflammation

Dr Ross McManus

Department of Clinical Medicine
Trinity College Dublin
174,181.48

Directed analysis of genomic risk regions in coeliac disease

Dr Liam O'Mahony

Department of Medicine
University College Cork
164,540.00

Molecular mechanisms underpinning probiotic attenuation of T cell mediated colitis

Grant Holder	Title
<p>Professor Peter Dervan Department of Pathology Conway Institute University College Dublin 119,767.50</p>	<p>Array CGH and progression tissue micro arrays in malignant melanoma</p>
<p>Dr Jens Erik Nielsen Department of Biochemistry University College Dublin 164,289.02</p>	<p>Protein kinase activation</p>
<p>Professor Fergal O'Gara Department of Microbiology University College Cork 162,896.46</p>	<p>Mechanisms of how a bacterial pathogen develops resistance/tolerance to host cationic antimicrobial peptides</p>
<p>Professor Shane O'Neill Department of Medicine Royal College of Surgeons in Ireland 113,723.80</p>	<p>Factors modulating expression of TLR2, TLR4 and HBD2 in respiratory epithelium in COPD</p>
<p>Dr Daniel Bradley Department of Genetics Trinity College Dublin 174,983.00</p>	<p>Genetic structure of the Irish population: the Milesian paradigm</p>
<p>Professor Paul Cahill Vascular Health Research Centre Dublin City University 188,409.00</p>	<p>Hedgehog signaling and vascular smooth muscle cell fate</p>
<p>Dr Judith Harmey Department of Surgery Royal College of Surgeons in Ireland 132,972.00</p>	<p>Cochleates to deliver nucleic acid based cancer therapies</p>
<p>Professor Oliver FitzGerald Department of Rheumatology University College Dublin 171,264.00</p>	<p>Differential expression of VEGF, PlGF and the VEGF receptors in inflammatory arthritis</p>
<p>Dr Achim Treumann Department of Clinical Pharmacology Royal College of Surgeons in Ireland 167,005.00</p>	<p>Gplb beta signalling: a proteomics approach</p>
<p>Dr Mary McCarron School of Nursing and Midwifery Studies Trinity College Dublin 170,458.60</p>	<p>Cost effectiveness and quality of life in service delivery for persons with the dual disability of Down Syndrome and Alzheimer's Dementia</p>

Grant Holder**Dr Kevin Mitchell**

Department of Genetics
Trinity College Dublin
164,700.00

Dr Evelyn Mahon

Department of Sociology
Trinity College Dublin
103,030.53

Dr Tim Foster

Department of Microbiology
Trinity College Dublin
126,373.00

Dr Sandra Austin

Molecular Medicine Group
University College Dublin
206,378.00

Dr Charles Spillane

Department of Biochemistry
University College Cork
187,504.16

Dr Saoirse Nic Gabhainn

Department of Health Promotion
National University of Ireland, Galway
109,691.80

Professor Jochen Prehn

Department of Physiology
Royal College of Surgeons in Ireland
172,864.05

Dr Gary Jones

Department of Biology
National University of Ireland, Maynooth
189,047.74

Dr Gary Moran

School of Dental Science
Dublin Dental School and Hospital
188,132.60

Professor Hilary Humphreys

Department of Clinical Microbiology
Royal College of Surgeons in Ireland
131,522.00

Title

Detailed characterisation of the prevalence, familiarity and nature of synaesthesia in the Irish population, using a multidisciplinary approach

'A child of our own', addressing infertility: a longitudinal study of couples undergoing fertility treatment in Ireland focusing on their lived experience of treatment and its outcomes

Monoclonal antibodies to clumping factor of *Staphylococcus aureus*

DRAK2 as a novel effector of the anti-neoplastic effects of Cyclooxygenase inhibition in colorectal cancer

Dissection of the epigenetic mechanisms underlying non-coding trinucleotide expansion disorders using the *C. elegans* animal model system

Translating the Irish health behaviour in school-aged children survey (HBSC) into policy and practice

Gene expression and ER calcium homeostasis regulation by APP and AICD: role in Alzheimer's disease

Hsp70's role in amyloid propagation

Comparison of virulence gene expression in *Candida albicans* and *Candida dubliniensis*

Biofilm and device-related meningitis caused by *Staphylococcus epidermidis*. Identifying potential targets for the prevention of infection

Grant Holder**Dr Gethin McBean**

Department of Biochemistry
University College Dublin
125,389.00

Dr Maria Byrne

Department of Medicine
University College Dublin
189,761.89

Dr Carmen Regan

Obstetrics and Gynaecology
Coombe Women's Hospital
154,645.00

Dr John Baugh

Department of Medicine and Therapeutics
University College Dublin
143,160.00

Dr Derek Sullivan

Department of Oral Surgery,
Oral Medicine and Oral Pathology
Dublin Dental School and Hospital
100,180.00

Dr Fergal O'Brien

Department of Anatomy
Royal College of Surgeons in Ireland
140,328.00

Dr Michael Barry

Department of Pharmacoeconomics
Haughton Institute
75,847.20

Dr Kathleen Bennett

Dept Pharmacology and Therapeutics
Trinity College Dublin
164,251.00

Dr Philip Newsholme

Department of Biochemistry
University College Dublin
131,750.00

Dr John Laffey

Department of Anaesthesia
National University of Ireland, Galway
208,700.00

Title

Do novel structural analogues of MDMA ('ecstasy') target monoamine transporters in the central nervous system?

Signal transduction pathways leading to a reduction in beta-cell mass in MODY3, a monogenic form of diabetes mellitus

The role of thromboxane A2 formation in fetal intrauterine growth restriction

Regulation of Macrophage Migration Inhibitory Factor (MIF) Expression

Molecular analysis of adhesion of *Candida albicans* and *Candida dubliniensis* to human cells and extracellular matrix proteins

The role of microcracks in targeted bone remodeling and their relationship with bone fragility and osteoporosis

Pharmacoeconomic implications of statin prescribing based on the European guidelines on cardiovascular disease prevention

Cluster-randomised trial of educational interventions to promote rational prescribing in primary care

Importance of the malate-aspartate mitochondrial shuttle to pancreatic beta-cell amino acid metabolism

Preclinical investigation of the efficacy and mechanisms of action of Hypercapnic Acidosis in acute lung injury

Grant Holder**Professor Kieran Murphy**

Department of Psychiatry
 Royal College of Surgeons in Ireland
 207,358.50

Professor Andrew Murphy

Department of General Practice
 National University of Ireland, Galway
 189,474.11

Professor Edward Johns

Department of Physiology
 University College Cork
 184,619.24

Dr Catherine Greene

Department of Medicine
 Royal College of Surgeons in Ireland
 121,650.00

Dr Peter Kelly

Department of Medicine
 Mater Misericordiae Hospital
 173,400.00

Dr David Lloyd

Department of Biochemistry
 Trinity College Dublin
 163,490.14

Dr John P. Lowry

University College Dublin
 Department of Pharmacology
 170,068.20

Dr Caroline Jefferies

Department of Biochemistry
 Trinity College Dublin
 191,906.00

Professor Terry Smith

National Centre for Biomedical
 Engineering Science
 National University of Ireland, Galway
 176,730.00

Title

A novel high-risk study of schizophrenia susceptibility using a population-based cohort of people with velo-cardio-facial syndrome

Community cohort study of 1, 611 patients with a diagnosis of established heart disease

Impact of elevated dietary sodium intake during the growing phase on the neural control of the kidney: role of the brain renin-angiotensin system

Gene-targetted inhibition of Z Alpha-1-antitrypsin

The North Dublin Population Stroke Study

Chemotype switching for the identification and mechanistic deconvolution of novel apoptotic agents

Real-time simultaneous monitoring in vivo of glutamate and H₂O₂ in brain tissue, using a novel implantable polymer-enzyme composite device

Role of Bruton's tyrosine kinase in TLR9 signalling in B cells: implications for autoimmunity

Investigation of the modulation of Maxi-K channel activity by alternatively spliced alpha-subunit isoforms in human myometrium during pregnancy and labour

Grant Holder**Title****Professor Michael P Ryan**

Department of Pharmacology
University College Dublin
147,100.00

Mechanisms of immune mediated Epithelial
Mesenchymal Transdifferentiation (EMT) in human
kidney cells

Dr Aine Kelly

Department of Physiology
Trinity College Dublin
143,484.60

Neurotrophins, plasticity and neuroprotection

Dr David Cotter

Department of Psychiatry
Royal College of Surgeons in Ireland
150,406.00

Proteomic investigation of subcortical white matter in
bipolar disorder and schizophrenia

Professor June Nunn

Public and Child Dental Health
Dublin Dental School and Hospital
160,815.70

Promoting oral health in pre-school children with
disabilities

Dr Anthony Staines

Department of Public Health
Medicine and Epidemiology
174,701.76

Multiple myeloma genetics: aetiology to therapeutic
response

Research Project Grants - Ireland/Northern Ireland Co-operation**Dr Amanda McCann**

Conway Institute of Biomolecular
and Biomedical Research
University College Dublin
169,252.25

The significance of S100A4 and other novel
candidate EMT markers as key modulators of the
metastatic phenotype of TCCB

Dr Harry Comber

National Cancer Registry
131,552.90

Factors underlying differences and trends in PSA
testing, biopsy and prostate cancer incidence in
Ireland 1994-2003

Dr Jane Farrar

Department of Genetics
Trinity College Dublin
167,137.30

Gene therapy for osteogenesis imperfecta

Grant Holder	Title
Building Partnerships for a Healthier Society Awards	
Dr Mary McCarron School of Nursing and Midwifery Studies Trinity College Dublin 50,000.00	A palliative care model for supporting persons with intellectual and advanced dementia
Dr Linda Hogan Irish School of Ecumenics Trinity College Dublin	Health policy formation in a christian culture with religious minorities
Dr Helen Whelton Oral Health Services Research Centre University College Cork 50,000.00	Evidence based oral health policy development for the elderly
Ms Susan O'Carroll Action Breast Cancer Irish Cancer Society 30,000.00	A report on the information, availability, quality, provision, supply, fitting, funding and policy within Ireland of breast prostheses to women following breast surgery
Dr Ella Arensman Research National Suicide Research Foundation 56,096.00	A four-level community based intervention programme for depression & suicidal behaviour: a pilot study in the Southern Health Board region
Dr Eoin Tiernan Palliative Care Blackrock Hospice 60,000.00	Factors influencing place of care for terminally ill cancer patients in the community
Mr Stephen Lamb Nursing and Midwifery Planning and Development Unit Waterford Regional Hospital 23,283.00	Nursing assessment of self-harm: nursing psychosocial assessment of persons who present to accident and emergency departments with self-harm
Strategic R&D Awards	
Professor Eadbhard O'Callaghan Psychiatry Cluain Mhuire Service 736,367.00	A randomised controlled trial of a psychological intervention for people with recent/ first onset psychosis and substance misuse
Dr Helen Whelton Oral Health Services Research Centre University Dental School and Hospital 749,988.00	Developing evidence-based clinical practice guidelines for the health board dental services in Ireland

Grant Holder**Title****Ms Linda Sharp**

National Cancer Registry of Ireland
748,906.00

Economic impact of cancer in Ireland

Dr Susan M Smith

Department of Public Health and Primary Care
Trinity College Centre for Health Sciences
748,365.00

Peer support in type 2 diabetes: a randomised controlled trial in primary care with parallel economic and qualitative analyses

INFRASTRUCTURE GRANTS**Equipment Grants****Dr Frank Barry**

Regenerative Medicine Institute
National University of Ireland, Galway
136,569.00

Laser microdissection system for recovery of engrafted stem cells and specific cells from tissue biopsies

Professor Cliona O'Farrelly

Education and Research Centre, SVUH
University College Dublin
54,450.00

Organ-specific molecular and cellular pathogenic mechanisms

Dr Dermot Walls

Faculty of Science and Health
Dublin City University
64,735.00

Real-time PCR assays for viral, cellular and bacterial gene expression

Dr Amir Khan

Department of Biochemistry
Trinity College Dublin
160,870.00

High throughput protein X-ray crystallography and molecular design

Dr Dmitri Papkovsky

Department of Biochemistry
University College Cork
195,536.00

Two-photon excitation micro-fluorometer system

Dr David Henshall

Department of Physiology
Royal College of Surgeons in Ireland
95,120.00

Mouse monitoring clinic for translational research

Dr Michael Gill

Department of Psychiatry
Trinity College Dublin
216,000.00

Automated DNA purification and extraction

Grant Holder**Dr Amanda McCann**

Conway Institute of Biomolecular
and Biomedical Research
University College Dublin
278,300.00

Dr Alan Ryder

National Centre for Biomedical
Engineering Science
National University of Ireland, Galway
249,347.00

Dr William Watson

Department of Surgery
University College Dublin
180,518.70

Dr Cormac Murphy

Department of Industrial Microbiology
University College Dublin
80,163.00

Dr Jiang Huai Wang

Department of Surgery
University College Cork
90,853.00

Dr David Cotter

Department of Psychiatry
Royal College of Surgeons in Ireland
67,241.00

Professor Brian Harvey

Department of Molecular Medicine
Royal College of Surgeons in Ireland
121,691.00

Professor Jochen Prehn

Department of Physiology and
Medical Physics
Royal College of Surgeons in Ireland
162,745.00

Professor Lothar Steidler

Department of Microbiology and Medicine
University College Cork
56,420.00

Title

Automated slide-scanning and image-analysis
system: application to high throughput biomarker
validation studies

Fluorescence lifetime imaging microscope with
fluorescence correlation spectroscopy (FLIM-FCS)

Flow cytometry: applications for cellular function and
differentiation

Biosynthesis of the chlorinated antibiotic ACPA

Investigation of molecular and cellular mechanisms
involved in BLP tolerance-afforded protection against
septic shock

Clinical neuroscience proteomics using DIGE

Anti-secretory effects of steroid hormones in human
lung, intestine and eye

A user-friendly, FRET-compatible bench-top flow
cytometer for the study of protein delivery, protein
dynamics, protein interaction, protease activation and
cell death activation in human disease and its
response to treatment: A multiple user infrastructure

Strategies for highly contained live therapeutic GM
bacteria

Grant Holder**Title****Dr Rosemary O'Connor**

Department of Biochemistry
University College Cork
321,852.25

Laser scanning cytometry for use in cancer and neurobiology research

Dr Sandra Austin

Conway Institute
University College Dublin
193,315.00

Intravital microscopy for in vivo tissue and vascular analysis

Dr Veronica Campbell

Department of Physiology
Trinity College Dublin
259,456.00

Confocal laser scanning microscope

Professor Gerald Tomkin

Diabetes and Endocrinology
Trinity College Dublin
93,558.00

Lipoproteins and diabetes

Professor Dolores J Cahill

Centre for Human Proteomics
Royal College of Surgeons in Ireland
95,413.62

Low volume liquid handling robot for high-throughput proteomics applications

Professor David Croke

Department of Biochemistry
Royal College of Surgeons in Ireland
82,939.45

Transgenic models in neuropsychiatric disease

Dr Patrick C Brennan

School of Diagnostic Imaging
University College Dublin
92,751.34

Essential dosimetry for the optimisation of diagnostic radiographic procedures

Dr Charles SPILLANE

Department of Biochemistry
University College Cork
220,202.00

Biomedical genomics: need for high-throughput genetic analysis

Dr Heinz Peter Nasheuer

Department of Biochemistry
National University of Ireland, Galway
134,915.00

NUIG/phosphorimager

Professor Dermot Kelleher

Department of Clinical Medicine
Trinity College Dublin
89,100.00

Chip-based bio-assays

Grant Holder**Professor Marina Lynch**

Department of Physiology
Trinity College Dublin
193,363.00

Dr Stephen Beatty

Department of Ophthalmology
Waterford Institute of Technology
69,454.00

Dr Ziarh Hawi

Department of Genetics
Trinity College Dublin
132,858.00

Professor John Waddington

Department of Clinical Pharmacology
Royal College of Surgeons in Ireland
65,384.00

Dr Kieran McDermott

Department of Anatomy-Neuroscienc
University College Cork
322,786.00

Professor Martin Clynes

National Institute for Cellular Biotechnology
Dublin City University
122,245.53

Dr John P Lowry

Department of Pharmacology
University College Dublin
136,857.00

Professor Kay Ohlendieck

Department of Biology
National University of Ireland, Maynooth
232,612.00

Dr David Lloyd

Department of Biochemistry
Trinity College Dublin
81,762.00

Title

Application of FACS analysis to the study of inflammatory changes in brain

Apo e4 allele status, and its relationship with macular pigment optical density and lipoprotein profile, in subjects with and without a family history of age related macular degeneration.

An ABI Prism 7900HT sequence detection system to perform fine mapping of putative susceptibility loci for neuropsychiatric conditions

Resource for psychiatric genomics in Ireland: accessing disruption to early brain development and quantifying its relationship to functional impairment through morphometrics

Confocal imaging system

Establishing Ireland's pancreatic islet isolation programme for research and future transplantation

Microdialysis analyser systems for monitoring neurochemical dynamics in the intact brain: facilitating the application of biosensors for real-time clinical monitoring

Establishment of a difference gel electrophoresis based proteomics suite in NUI Maynooth

Non-radioactive screening for early phase discovery research

Grant Holder	Title
Health Information Systems grants to underpin R&D	
Dr Howard Johnston Department of Public Health Eastern Regional Health Authority 249,000.00	Health Atlas - Rapid Inquiry System
Dr Gerard Cagney Department of Molecular Medicine University College Dublin 80,000.00	Clinical Proteomics Analysis Platform (CPAP)
Dr Derek Morris Department of Psychiatry Trinity College Dublin 249,740.00	Neuropsychiatric Genetics Group Information Infrastructure
Dr Gerard Boran Department of Pathology Adelaide and Meath Hospital 216,310.00	A repository to support shared care for diabetes
Mr Declan Devane School of Nursing and Midwifery Studies Trinity College Dublin 249,850.00	Evaluation of the effectiveness of midwifery-led services in the North Eastern Health Board: a multi centre, randomised controlled trial
Dr Fidelma Dunne Department of Medicine University College Hospital, Galway 248,408.00	Use of a diabetes electronic management system (DIAMOND) to support a shared care diabetes programme
Dr Leonie Young Department of Surgery University College Dublin 154,372.00	Breast cancer research portal