

College of Medicine and Health

ANNUAL REPORT 2016/17



UCC

University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

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1. Overview



*Professor Helen Whelton,
Head of College of Medicine and Health &
Chief Academic Officer to the South / South
West Hospital Group*

Dear Governing Body Members,

On behalf of the 3,369 students, 663 staff and 400 associated consultant colleagues, I am pleased to present our College of Medicine & Health's Annual Report 2016/2017.

I assumed the role as Head of College in October 2017, over the next five years, my aim is to build on the work of my predecessors and take an already high-achieving and ambitious College to the next level. I plan to leverage our talent, commitment and opportunity to position our College as a national and international leader of healthcare education, research and service provision. Our greatest resource as a College is our people, the commitment and dedication of a staff body who continually innovate and develop new modules and programmes is to be commended. So also is the constant effort to grow and develop our research and to engage internally and externally in the process. The recent Quercus awards provided ample evidence of the quality of our students, our challenge is to help them to maximise their potential.

In the months ahead, I will be seeking collective ownership in developing and delivering our strategy through staff consultations. Work is currently underway to establish the infrastructure for this process. We will be revisiting both research and academic strategies and planning for the next five years. Although much of our focus will be on the currently planned developments, staff will have the opportunity to propose new ideas. Included in the strategy will be a plan to support our South/South West Hospital Group partners in their quest for quality improvement through the development and delivery of research for patient benefit in our hospitals. My role as Chief Academic Officer to the Group will be key in delivering this goal.

Relating our past contribution and achievements is essential to delivering our future ambition. Past research achievements are about to be published in a compilation of research impact stories drawn from researchers across the College. These stories will narrate the direct and indirect effects the research has had on people's lives. They will illustrate our successes and achievements at local, national and international level in a way that is accessible to our staff, our funders and to the population we serve. These impact case-studies also show case the unique and productive research ecosystem in our University and in our region. Inter-disciplinarity and external engagement are evidenced in the publication which will be available on our website. Selected case-studies will also be compiled in hard copy to distribute as appropriate. The publication will be of particular use in informing conversations with philanthropists, alumni and industry partners.

This annual report highlights the achievements of the College of Medicine & Health (CoMH) in 2016/17 under each of the five goals stated in the University's Strategic Plan. This report also includes an update from each School, new programmes, capital development projects, as well as key metrics.

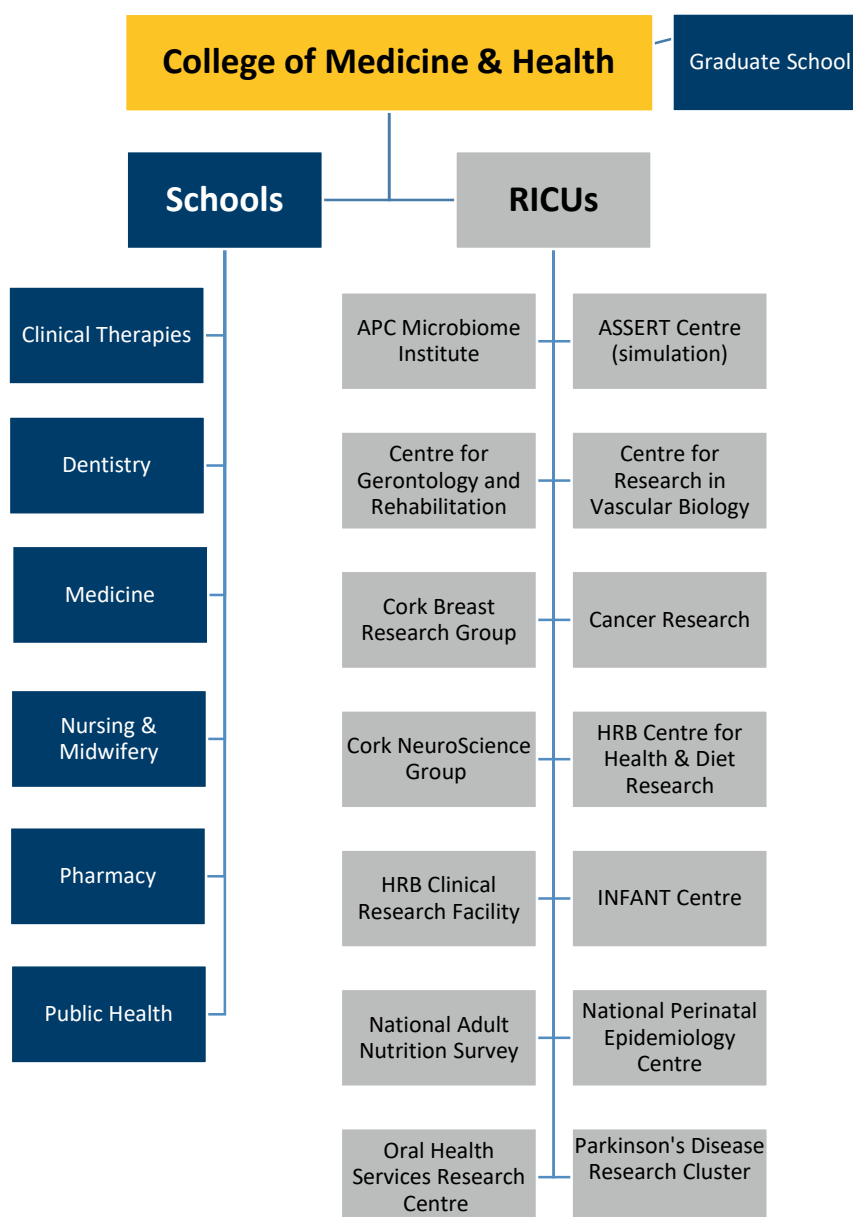


Professor Helen Whelton
Head of College of Medicine and Health
University College Cork

2. College of Medicine & Health at a Glance

The College of Medicine and Health (CoMH) provides future medical and health professionals with a world-class, student-centred education, based on knowledge, informed by research and with an awareness of societal needs. It was established in 2007 and comprises six schools that deliver programmes in healthcare, including the Schools of Clinical Therapies, Dentistry, Medicine, Nursing & Midwifery, Pharmacy, and Public Health, as well as a Graduate School, which serves a coordinating function for postgraduate programmes.

Students (FTE 2016/17)	Staff (FTE Dec 2017)	Programmes No	Research Income 2017 (incl. APC*)
3,369	663	UG: 17, PG: 59	€ 28,281,489



**The APC Microbiome Institute spans the College of Medicine & Health and the College of Science, Engineering and Food Science.*

3. Goals

The College of Medicine & Health is working towards the five strategic goals outlined in the University's Strategic Plan 2017 – 2022.

Goal 1 Implement an academic strategy to deliver an outstanding, student-centred teaching and learning experience with a renewed, responsive and research-led curriculum at its core.

Goal 2 Be a leading university for research, discovery, innovation, entrepreneurship, commercialisation and societal impact.

Goal 3 Create value for our community through an international outlook and informed and creative engagement on local and global issues.

Goal 4 Attract, develop, support and retain staff of the highest quality, thereby ensuring a diverse staff who are enabled to reach their full potential.

Goal 5 Strengthen our infrastructure and resource base.



GOAL 1

Implement an academic strategy to deliver an outstanding, student-centred teaching and learning experience with a renewed, responsive and research-led curriculum at its core.

The College of Medicine & Health is large in scale, with diverse disciplines which mirror today's complex integrated healthcare systems. Our undergraduate programmes are recognised by professional regulatory bodies and the curriculum is designed to take the student learner from theoretical understanding to simulation teaching to becoming a competent professional. The College strives to continuously strengthen its programme portfolio, developing new programmes at both undergraduate and postgraduate level to meet the needs of society.

Student Numbers

Student Numbers	2015/16 FTE	2016/17 FTE
Undergraduate	2,697	2,642
Postgraduate	749	727
Total	3,446	3,369

New Programmes 2016/17

In support of the University's strategic goal 1, the College of Medicine & Health have developed a number of new programmes in the past year. Below a list of new programmes proposed / approved within the College;

- **MRes in Health Profession's Education**
(September 2016)
- **Postgraduate Diploma in Population Health and Health Services Research**
(September 2016)
- **BSc Paramedic Studies**
(January 2017)
- **Postgraduate Diploma in Practice Nursing**
(September 2017)
- **MSc Nursing & Healthcare Quality Improvement (online)**
(September 2017)
- **Masters in Health Profession's Education**
(September 2017)
- **MSc Human Anatomy**
(September 2017)

New Programmes approved and expected to begin in 2018

- **BSc Medical & Health Sciences – New CAO programme**
(September 2018)
- **MSc Physiotherapy**
(September 2018)
- **MSc Diagnostic Radiography**
(September 2018)
- **MSc Advanced Nursing Practice**
(4 HEI Consortium, adaptation of existing successful programme)
(September 2018)

Collaborative New Programmes

- **MSc Healthcare Leadership (with College of Business & Law)**
(September 2016)
- **MSc Digital Health (with College of Business & Law)**
(September 2017)
- **Doctorate of Clinical Psychology (with School of Applied Psychology & HSE)**
(September 2017)

Modules

- First Interdisciplinary Research Module for Masters Students of the College of Medicine and Health launched in 2016

New School of Public Health Launched

The School of Public Health was launched in November 2017, following its extensive growth as the Department of Epidemiology and Public Health over the last number of years. The School offers a range of programmes at undergraduate, postgraduate through to PhD level.



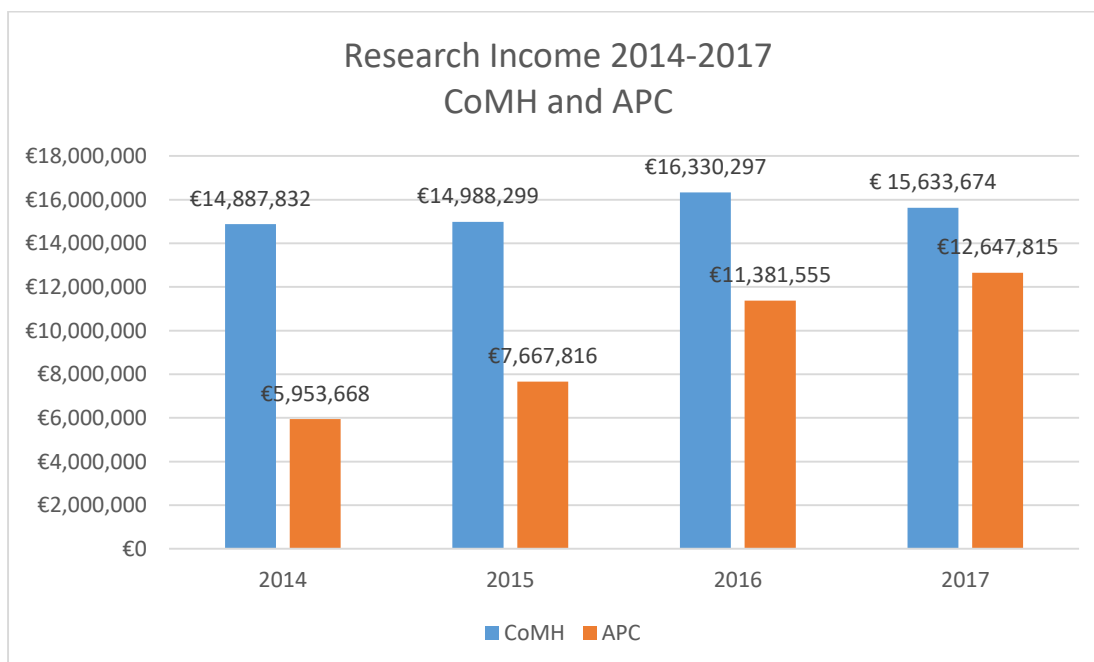
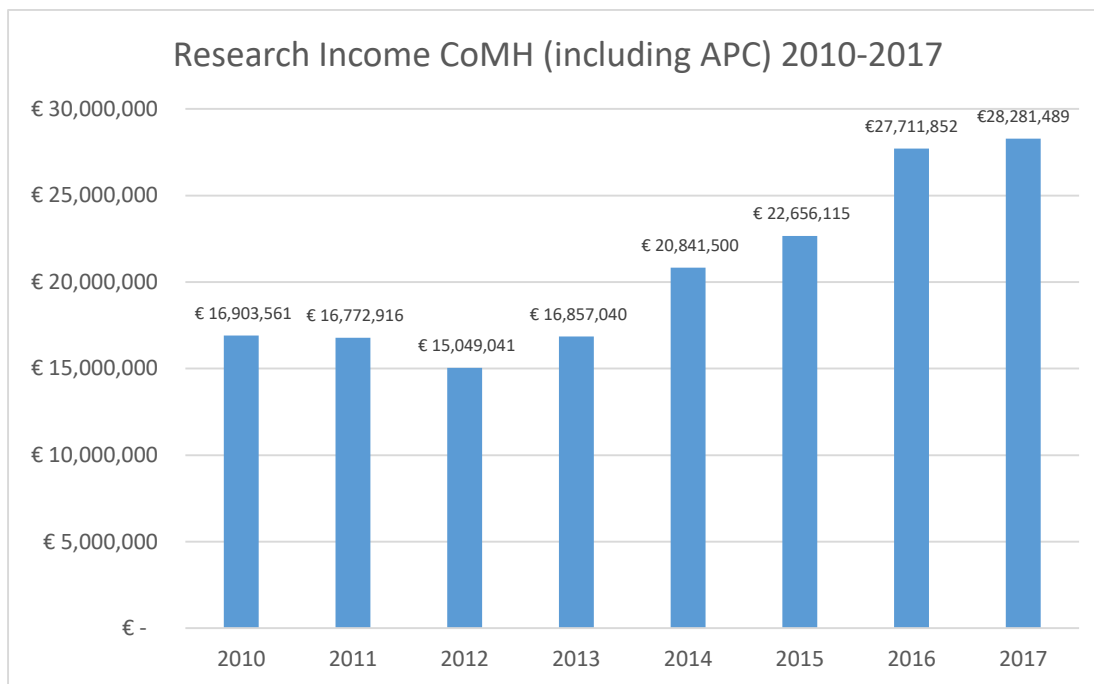
Prof Ivan Perry, Head of School of Public Health, Professor Patrick O'Shea, UCC President, Cllr. Tony Fitzgerald, Lord Mayor, and Prof Helen Whelton, Head of College of Medicine & Health at the launch of School of Public Health.

GOAL 2

Be a leading university for research, discovery, innovation, entrepreneurship, commercialisation and societal impact.

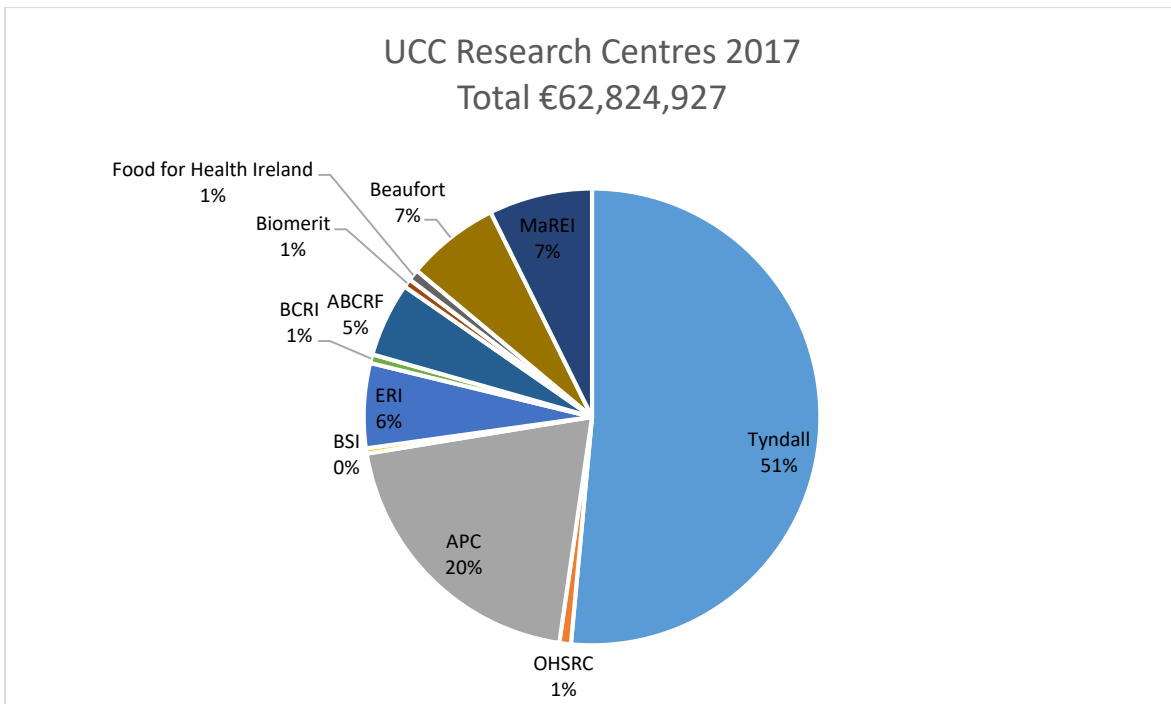
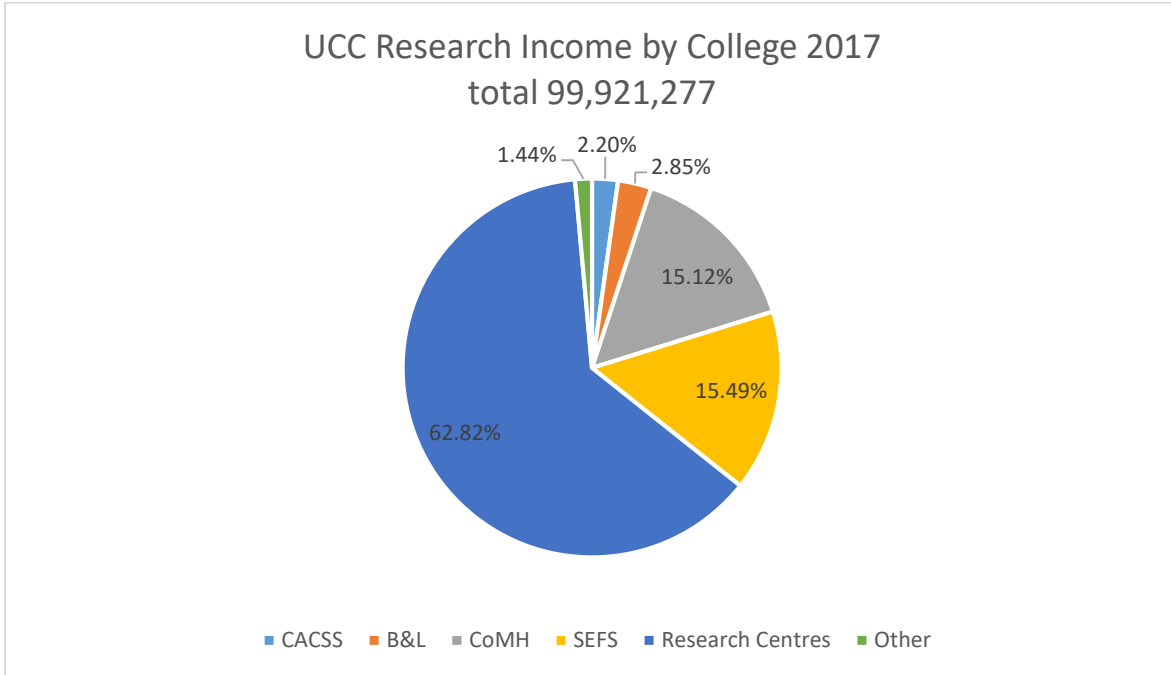
In the College of Medicine & Health, we have internationally renowned researchers who translate innovation from laboratories to hospitals and populations in order to solve the healthcare problems faced by our patients and wider community.

Research Income



Research Income 2017

INFANT Centre	€ 4,349,850
APC Microbiome Ireland	€ 12,647,815
OHSRC	€ 511,632
CoMH	€ 10,772,192
Total	€ 28,281,489



Please note that the 2017 figures supplied above are draft and are currently being audited.

Research Institutes and Centres

The College of Medicine & Health has a number of research institutes, centres and units under its governance. In its strategic plan 2013 – 2017, the College selected five thematic research areas to focus on, including Food and Health, Maternal and Child Health, Public Health and Health Services Research, Cancer Research, and Simulation Teaching and Research. Outlined below are highlights from 2016/17 for some of the research institutes and centres that support these thematic areas.

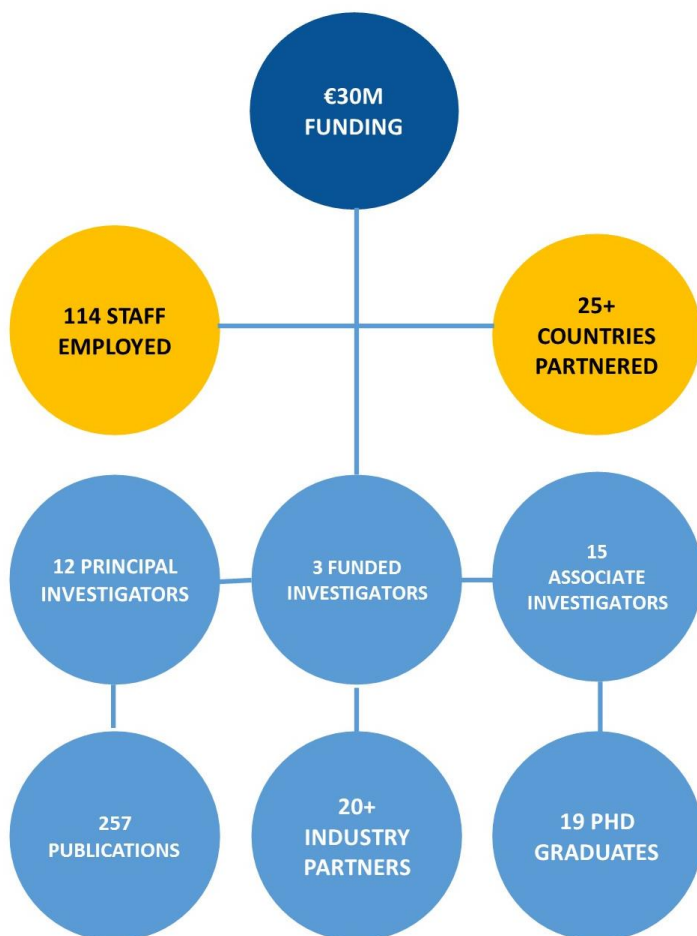
APC Microbiome Ireland – Interfacing Food and Medicine

- Global ranking in 2017 based on citations of research publications (according to CWTS Leiden) #1 for anti-microbials; #1 for probiotics; #5 for gut diseases
- Publications >2000 since 2003; citation impact is twice world average
- Four APC Researchers Feature in 2017 World's Most Highly Cited List (Professor Elke Arendt, Professor Paul Ross, Professor John Cryan, and Professor Catherine Stanton)
- Professor Fergus Shanahan won the RIA Gold Medal for Biosciences (January 2017)
- Economic impact/Jobs: 255 direct jobs, 41 in APC's spin-out companies, magnet for 10 companies which would otherwise have no footprint in Ireland, and underpinning >7,000 other jobs in Ireland
- Foreign direct investment: for every euro from the taxpayer (Science Foundation Ireland), APC has brought in another euro from FDI
- €45m income from 30+ collaborative industry projects since 2013
- APC becomes the first research partner of the newly launched DuPont Microbiome Venture (November 2017)
- APC issued 11 press releases in 2017 on research findings, from the impact of gut bacteria on gene expression in the brain, to how the microbiome of the Irish rugby team is primed for tissue repair and to harness energy from the diet, reflecting the significant energy demands and high cell turnover evident in elite sport
- APC hosted two international conferences in 2017: neuroTANDEM and the European Society for Neurogastroenterology and Motility conference
- 34% of APC's researchers are international, representing 31 nationalities
- > 550 alumni
- APC continues to be an agent of change locally and globally



Four APC Microbiome Institute Principal Investigators, (l-r) Professor Elke Arendt, Professor John Cryan, Professor Catherine Stanton, and Professor Paul Ross feature in the latest "Highly Cited Researchers" list.

Maternal & Child Health – The INFANT Centre



INFANT in numbers

Highlights of 2016/17 include:

- Prof Jonathan Hourihane, Dr Keelin O’Donoghue, Prof Declan Devane and Prof Alan Irvine joined INFANT as Principal investigators
- INFANT Director, Professor Geraldine Boylan named as one of 14 Sci-Tech “Life-Changing Innovators” solving the world’s big problems by Silicon Republic
- INFANT Centre co-leading the HRB Mother & Baby Network across Ireland
- INFANT launched projects with international industry partners: the ENRICH Study with Johnson & Johnson; the PiNPOINT Study with Crème Global, Freisnus Kabi and Danone
- Dr Keelin O’Donoghue to lead the national Implementation of National Standards for Bereavement Care
- Dr Andriy Temko won prestigious international Kaggle Challenge
- Professor Louise Kenny won Guaranteed Irish Science Hero award (2017)
- Professor Louise Kenny won the WMB (Women Mean Business) Women in Technology Award 2017
- Dr Cathal McCarthy and Dr Jane English won Emerging Investigator Award from the HRB

- PhD student Marc O’Sullivan won Best Oral Presentation Prize at the 10th International Conference on Brain Monitoring and Neuroprotection in the Newborn
- Post-doctoral researcher Dr Deirdre Twomey won the Cure and Care Award at the Jens 2017 Conference in Venice, Italy
- INFANT hosted two large international conferences, Brain Monitoring & Neuroprotection in the Newborn and the International Stillbirth Alliance Conference
- INFANT hosted researchers from the Kilimanjaro Clinical Research Institute in Northern Tanzania



INFANT Centre hosted researchers from the Kilimanjaro Clinical Research Institute in Northern Tanzania

Public Health & Health Services Research – School of Public Health

There are a number of ongoing research programmes within the School of Public Health. See section 4.6. for further detail on research conducted within the School.

ASSERT Centre

ASSERT VISION: To become the premier Centre of Excellence for medical, surgical and allied healthcare professional training in Europe

Highlights of 2016/17 include:

- Professor Barry O Reilly appointed Director/Clinical Lead effective from January 2017
- Change in focus to a National and European training Centre. World-class GI training in the Surgical Skills lab in action can be seen at <https://vimeo.com/252255678/3c52f137f1>
- ASSERT positioned as a “Bridge” that links Clinicians – Industry – Academia and facilitates training and research ideas and implementation
- ASSERT hosted a successful opening evening for all consultants in the South / South West Hospital Group
- ASSERT continues to provide world class simulation based education to 5th Year medical Students and Interns



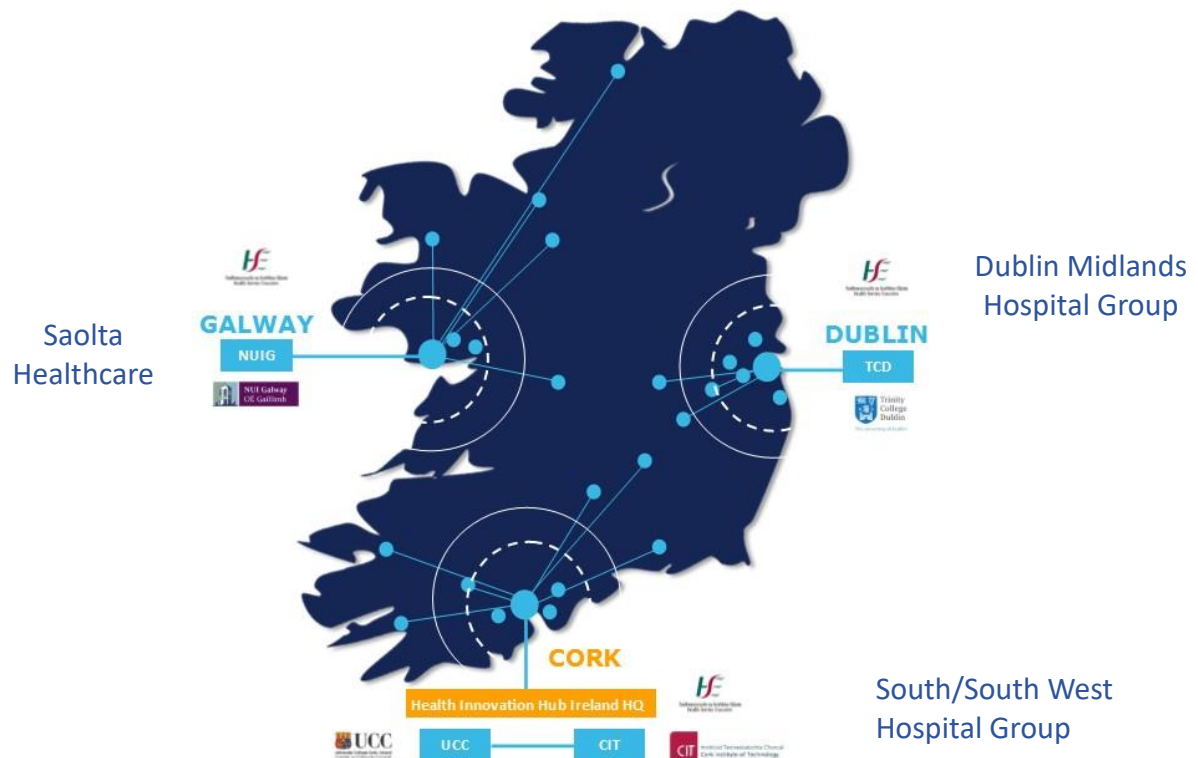
- Establishing further long-term industry partnerships e.g. Imaging/Endoscopy
- Establishing collaborative relationships with medical training bodies e.g. RCPI/RCSI
- ASSERT introduced a state-of-the-art training solution for stroke using the Mentice VIST's
- ASSERT hosted the 2017 annual Irish Association for Simulation Symposium

Health Innovation Hub Ireland

The Health Innovation Hub Ireland (HIHI) facilitates and accelerates the commercialisation of innovative healthcare solutions. HIHI delivers activities at a national level to all academic institutions, healthcare providers and commercial companies. These activities are delivered by the HIHI Consortium of formal collaborators, which include UCC, CIT, NUIG and TCD, their associated Clinical Research Facilities (Cork, Galway, Dublin) and their Hospital Groups (South/South West, Dublin Midlands and Saolta University), with associated Primary Care Centres, Community Health Organisations, Pharmacies and HSE support infrastructures. HIHI was launched in September 2016.

Highlights of 2017 include:

- Health Innovation Hub Ireland currently has 37 active projects
- Offices are being constructed in CIT, Galway and Dublin
- Staffing (HIHI and HSE) completed in Cork
- Staffing underway in all other locations - HIHI Staff and HSE Allocations
- Hospital outreach programme commenced
- New animations to optimise care of respiratory patients launched at CUH in collaboration with HIHI, the respiratory medicine teams at CUH, UCC, GSK and Lincor (supported by GSK)



GOAL 3

Create value for our community through an international outlook and informed and creative engagement on local and global issues.

As part of its mission, the College of Medicine & Health is directly connected to the local and global community which it serves.

The College along with its affiliated research institutes and centres, APC Microbiome Institute and the Oral Health Services Research Centre, is involved in nine EU Horizon 2020 grants.

Individual Schools have formed key partnerships with international colleagues, such as the School of Pharmacy's collaboration with the Future University in Egypt (FUE), which has led to the establishment of the successful Clinical Pharmacy Summer School in UCC for FUE students. The College focuses on increasing international student numbers and appointed an International Development Manager in September 2017 in support of this agenda. Academics across the College have also travelled overseas in pursuit of global engagement and internationalisation. (See section 4. for further detail on each School's international initiatives).

International Student Numbers	2015/16 FTE	2016/17 FTE
Undergraduate	488	473
Postgraduate	84	106
Total	572	579

Many staff of the College are clinically active and provide patient care to the people of the wider South West area. The College operates the Dental School & Hospital which alone provides over 50,000 patient visits annually. Students of the College are being taught to be the future healthcare professionals who will provide a service to their community. As part of their learning, these students are directly engaged in patient care. Thus, the clinical work done throughout the College is part of our service to our community and our relationship with our clinical partners is key to delivering both our educational and clinical commitments.

SSWHG & Chief Academic Officer

The relationship with our clinical partners is formalised by our designation as the primary academic partner of the South/South West Hospital Group (SSWHG), which consists of nine hospitals in the south and southwest of Ireland. The continued cooperation between UCC and SSWHG is vital in order to reform, integrate and modernise the delivery of healthcare across the region.

The College of Medicine & Health has taken a number of steps to further reinforce and nurture this pre-existing relationship, including the relocation of the College of Medicine & Health offices to Erinville in late 2016, thus co-locating with the SSWHG Management Team.



Chief Academic Officer

The Head of College is also the Chief Academic Officer to the SSWHG which is a key leadership post and a vital member of the Management Team which makes decisions for healthcare in the region. The Chief Academic Officer:

- ensures health, education and innovation sectors work together in a fully coordinated way
- acts as a senior academic clinician/healthcare professional with a senior executive leadership role in the primary academic partner institution
- creates a formal channel for cooperation and collaboration between the hospital group and UCC
- is responsible for driving a structured and formalised approach to the healthcare education, research and innovation functions of the hospital group.

Visual Thinking Strategies Outreach

A teaching method known as Visual Thinking Strategies (VTS) was introduced to the College of Medicine & Health in 2011 and was championed by Sioban Murphy, VTS Program Director. This method was co-developed by Abigail Housen, Harvard Cognitive Psychologist, and Philip Yenawine, Director of Education at the Museum of Modern Art. This teaching method is initiated by facilitated discussions of art images and is documented to have a cascading positive effect on both teachers and students. The aim is to facilitate open inquiry, visual thinking, comfort with ambiguity, respectful collaboration and iterative processes which are the fundamentals of critical thinking. This is a cross-disciplinary initiative and has been introduced into the curriculum of each undergraduate programme within the College.

In 2016, the lecturers who were leading this initiative extended their engagement to our local primary School in Glasheen. This involved 10 lessons to 450 boys and was warmly received by the boys and their teachers. Michael Daly, Principle of Glasheen Boys' School states that "the school had no hesitation in accepting the offer to become the first primary school in Ireland to introduce VTS to

Glasheen Boys' School pupils as an exciting method of learning.” Michael is confident that the skills learned through VTS will stay with his pupils and benefit them for many years to come. Michael paid tribute to UCC staff and the staff of Glasheen Boys' School for their enthusiasm and willingness to embrace this exciting, new opportunity.



The College of Medicine & Health's VTS Facilitators with staff and pupils from Glasheen Boys' School

GOAL 4

Attract, develop, support and retain staff of the highest quality, thereby ensuring a diverse staff who are enabled to reach their full potential.

Staff Numbers (FTE)	December 2016	December 2017
Academic	195	191
Research	297	284
Support Staff	178	188
Total	670	663

Staff Appointments

Professors and Heads of College/School/Discipline (September 2016 – December 2017)

- Professor Jonathan Drennan, Chair in Nursing & Health Services Research, School of Nursing & Midwifery
- Professor Christopher Lynch, Consultant/Professor of Restorative Dentistry, Cork University Dental School & Hospital
- Professor Nicole Müller, Head of Department of Speech & Hearing Sciences, School of Clinical Therapies
- Dr Christine McCreary, Dean of Cork University Dental School & Hospital
- Professor Corina Naughton, Clinical Professor in Older Persons Nursing & Healthcare, School of Nursing & Midwifery
- Professor Paula O’Leary, Professor in Medicine/Clinical Education, School of Medicine
- Professor Barry O’Reilly, Director/Clinical Lead, ASSERT Centre
- Patrick Sheahan, Professor in Otolaryngology, School of Medicine
- Professor Helen Whelton, Head of College of Medicine & Health

Clinical Professors (appointed in December 2016)

- Professor Louise Burke
- Professor Eugene Cassidy
- Professor Mark Corrigan
- Professor Rob Landers
- Professor Terry O’Connor
- Professor Seamus O’Mahony
- Professor Micheal O Riordain
- Professor Michael G J O’Sullivan
- Professor Liam Plant
- Professor Max Ryan

Adjunct Appointments

- An award ceremony for Adjunct Appointments and Adjunct Clinical Appointments in the College was held in March 2017



College of Medicine & Health Adjunct Appointment and Adjunct Clinical Appointments, March 2017. Pictured here (l-r): Dr Fiona Geaney, Reverend Dr Daniel Nuzum, Dr Dymrna Kavanagh, Dr Patrice James, Dr Frank Burke (former interim Head of College), Ms Bridie O'Sullivan, Ms Violet Hayes, Dr Patrick Cotter, Dr Will Fennell, and Dr John Gallagher.

Training initiatives

- Eight staff members including Anthony Archer, Mags Arnold, Helen Buckley, Lorraine Crossan, Linda Drummond, Thomas Erlandsson, Máiréad Harding, and Noreen Moynihan received their Lean Green Belts in September 2016

Strategy

The College of Medicine & Health is in the process of developing a new strategic plan for the next five years. Staff across the College will be canvassed for ideas and feedback to ensure creativity and collective ownership in the development of the new strategy. As part of this exercise, the College will be using a bespoke engagement platform in order to reach all staff within the College:

- Bespoke engagement platform that empowers **all staff** to have their say on the future of the College
- Provides the opportunity for objectives to be discussed at every level
- Combines insight with analyses of the broader environment and ideas from key stakeholders
- A Strategy that is informed and owned by the staff

Other Supports

The College of Medicine & Health offers a number of supports and incentives to staff, some of which are outlined below:

- Sabbatical Research Leave
- Staff Travel Bursaries
- Aurora Leadership Award
- Translational Research Access Programme (TRAP) in the School of Medicine

The College of Medicine & Health Athena SWAN Committee was established in 2016 as part of implementing UCC's Athena SWAN Action Plan. The Athena SWAN Charter recognises and celebrates good practice in recruiting, retaining and promoting women in science, technology, engineering, maths and medicine (STEMM) in higher education. The School of Pharmacy was the first School within the College to submit an Athena SWAN Bronze Award application (in November 2017).

GOAL 5

Strengthen our infrastructure and resource base.

Capital Development Projects

EIB Projects

The European Investment Bank (EIB) has signed a €100m loan agreement with UCC. The EIB investment will support a €241m development plan for UCC. College of Medicine and Health projects include:

- €37m investment to build a new Dental School and Hospital (7500m²)
- €12m investment to build a Clinical Medical School on the campus of Cork University Hospital (4000m²)
- €12m investment to build first building (4000m²) of Cork Science and Innovation Park
- Investment in clinical partner sites - University Hospital Waterford (€8m), University Hospital Kerry (€1m), and South Tipperary General Hospital (€1m)



Financial Metrics

The following reports on the College's financial position and results for the year ended 30th September 2017.

The College of Medicine and Health continues to show strong performance and its focus on reducing reliance on Exchequer income still remains as a necessary strategy. Demand remains strong from international students for our undergraduate programmes. Total income generated by the College for teaching and learning amounted to **€60m**, research income (excluding APC) amounted to **€16m** and capital projects underway/in the pipeline amount to **€71m**.

The College's operating surplus for the year amounted to €3m.

Income

Sources of income	2016/17 €000	2015/16 €000	Change €000	Change %
State Grant	8,167	9,006	(839)	(10%)
Fee income – EU students	24,769	25,168	(399)	(2%)
Fee income – Non EU students	17,086	16,718	368	2%
Contribution from Research overhead income	2,227	2,062	165	1%
Dental Hospital	2,848	2,786	62	2%
Income from other sources	4,610	5,308	(698)	(13%)
Total	59,707	61,048	(1,341)	(2%)

Operating Revenue

Total operating revenue decreased by 2% to €60m (excl. research income). This was primarily due to a €839k decrease in the Higher Education Authority (HEA) State Grant, which is allocated through the University's resource allocation model to the College. Overall fee income remained static at €42m. Income from other sources shows a decrease of 13%, which reflects a once off transfer of funds held on the Balance Sheet in the prior year which was not repeated in the current year. The College continues to focus on diversifying its sources of revenue due to the cap on the number students that can be admitted on most of its suite of undergraduate student programmes.

The College recognises the need to take action to relieve pressure on revenue and expenses. In this regard, a number of new student programmes are currently at various stages of the Academic programme planning process which will contribute significantly to student numbers at both undergraduate and postgraduate levels e.g. MSc Physiotherapy, MSc Radiography, MSc Health Profession's Education, BSc Medical and Health Sciences, HSE sponsored MSc Nursing (Advanced Nursing practice), and HSE sponsored Diploma in Paramedical Science.

Operating Expenses

Total operating expenses decreased by 1% to €56.7m. Pay costs (salaries and benefits) which represent 62% of the College's total operating expense remained static at €35.5m.

Non pay costs supporting the operational running of departments and schools amounted to €10.5m, a decrease of 5% compared to the prior year. The central overhead recharge of University support costs amounted to €10.8m, an increase of 2% over the prior year's charge of €10.6m.

Research Income

Research income (excluding APC) amounted to €16m which was earned as follows:

	€m
School of Medicine	6
INFANT	4
Public Health	2
Pharmacy	1
Others	<u>3</u>
Total	16

Capital Investment

The College is committed to investing heavily in capital expenditure going forward in order to accommodate its growing infrastructure needs. The European Investment Bank loan approved for the University will enable significant investment in our Dental School and Hospital (€37m), a Clinical Medical School on the site of our largest teaching partner, Cork University Hospital (€12m), the first building in Cork Science and Innovation Park (incorporating Health Innovation Hub Ireland) (€12m) and further external borrowings will be used to invest in our partner Hospital group teaching sites i.e. University Hospital Waterford (€8m) and South Tipperary General Hospital / University Hospital Kerry (€2m).

Development

Highlights October 2016 – September 2017:

- In line with the new capital builds, the College of Medicine and Health will engage in focused fundraising efforts for these projects. Therefore the next year of focus for Development will be on the new Dental School and Hospital, the new Clinical Medical School and the first building of Cork Science and Innovation Park. To realise our plans, we require increased investment from private philanthropy and we wish to create the most effective fund-raising plan to maximise our financial support. As a first step, we are reviewing our current fund-raising strategies and considering the potential of conducting a special campaign. This involves undertaking a feasibility study which will include gathering a cross section of opinions and feedback (from alumni, corporate partners, and prospective donors) on a number of areas relating to fund raising (our funding priorities, potential leadership, possible financial goal etc.).
- The total income received via philanthropic and corporate donation for the academic year 2016/17 was €330,000 and committed income of €1.7 million. Funds raised have gone toward a number of projects including capital, research, innovation, teaching and learning.

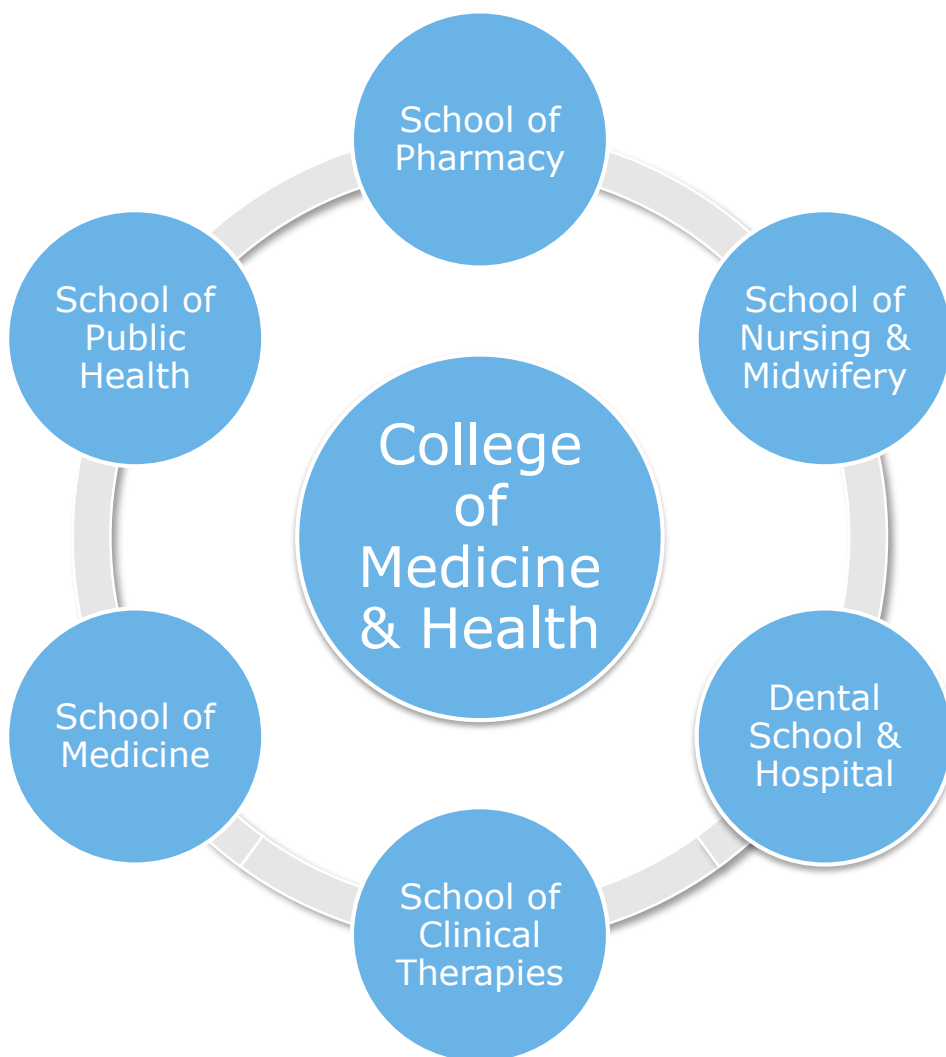
- In-kind donations of €77,900 were received, including Medtronic equipment to the value of €30,000 for ENT surgical training at ASSERT, CT scanner donated from GE Healthcare and €49,000 worth of Audiology equipment.
- Building on previous success with GSK a further €25,000 was secured for bronchoscopy training. That brings their donation over two years to €90,000. The most recent grant is in collaboration with Respiratory Consultant Dr. Marcus Kennedy.
- Laya Healthcare, Pfizer and Boston Scientific confirmed their commitment of corporate partnership for a further year, donating €25,000 each. College of Medicine and Health Corporate Partners' Advisory Board meetings were held with corporate partners to keep them engaged with the College and to identify further opportunities for involvement by identifying areas for collaboration and investment.
- Proposals of over €8 million have been completed for the College and key strategic corporate relationships are being nurtured with a view to further significant investment in the College of Medicine and Health.
- The philanthropic priorities for the College are being established for the future.
- Engagement with over 125 new prospects and key decision makers continues (European and international executives).



New Animations to Optimise Care of Lung Disease Patients Launched at CUH in collaboration with HIHI, the respiratory medicine teams at CUH, UCC, GSK and Lincor. Pictured here: Mr Aidan Lynch, General Manager GSK, Professor Barry Plant, Consultant Respiratory Physician CUH, Dr Colman Casey, Director Health Innovation Hub Ireland, and Mr Pat O'Donnell Co-Founder and SVP of Patient Connectivity Lincor. This project was supported by GSK.

4. Schools

The College of Medicine and Health comprises six professional schools and a graduate school.



4.1. SCHOOL OF CLINICAL THERAPIES

Programmes taught by the School	<p>Undergraduate pre-professional degrees: BSc (Hons) Occupational Therapy BSc (Hons) Speech and Language Therapy</p> <p>Undergraduate non-clinical degrees: BSc (Ordinary) Occupational Studies BSc (Hons) Occupational Studies BSc (Ordinary) Speech and Hearing Sciences BSc (Hons) Speech and Hearing Sciences Diploma in Speech and Hearing Sciences</p> <p>Taught Masters Degrees: MSc in Audiology</p> <p>Research Degrees: MSc (Medicine) by Research: OT or SLT PhD (Speech & Hearing Sciences) PhD (Occupational Therapy)</p>
Number of students in the School by FTE	SLT undergraduate: 115 OT Undergraduate: 107 MSc Audiology: 24
Number of students in the School by Headcount	SLT undergraduate: 129 OT Undergraduate: 114 MSc Audiology: 24 PhD: 10
Number of staff in School by FTE	23.9
Number of staff in School by Headcount	30

The School of Clinical Therapies was founded 2003 and at present consists of two departments: Department of Speech & Hearing Sciences (Speech and Language Therapy, and Audiology) and the Department of Occupational Science and Occupational Therapy. Two new disciplines, Physiotherapy and Radiography, are being established. Highlights of 2016/17 include:

New Programmes in the Pipeline

- **MSc Physiotherapy**
(September 2018)
- **MSc Diagnostic Radiography**
(September 2018)

New Appointments

- Professor Nicole Müller, Head of Speech and Hearing Sciences

- Dr Pauline Frizelle, Lecturer in Speech and Hearing Sciences
- Dr Joseph McVeigh, Head of Physiotherapy
- Mr Aidan O'Shea, Practice Education Co-ordinator of Physiotherapy
- Ms Teresa O'Rourke, Practice Education Tutor / Coordinator of Audiology

Awards & Achievements

- Student in the Department of Speech & Hearing Sciences won Highest Performing Paper in Ireland at the Undergraduate Awards (2016)
- Dr Helen Lynch, Department of Occupational Science and Occupational Therapy won a travel grant from ZHAW University
- Dr Helen Lynch won the Royal Irish Academy Charlemont Award (2017)
- Dr Joseph McVeigh won a research grant from the Northern Ireland HSC R&D Division Public Health Agency (2017)
- Yvonne Pennisi is co- investigator on the Evaluation of the Irish Hospice Foundation Design and Dignity programme Grant
- Prof Jeanne Jackson served on Cost Action: Ageing and Ageism
- Dr Helen Lynch served on Cost Action: Play for children with disabilities (LUDI)
- First year students in the Department of Occupational Science and Occupational Therapy won the UCC PLUS+ Lee Prize for Civic Engagement (2016)
- The Department of Occupational Science and Occupational Therapy was highly commended for the AOTI Ann Beckett Award (2016)
- Postgraduate student in the Department of Occupational Science and Occupational Therapy won the IRC Award
- Speech and Language Therapy student and Occupational Therapy student won the HH Stewart award
- Occupational Therapy student won the SURE award
- Student in SLT wins a HRB Summer Research Studentship in 2016
- SLT Graduate Appointed Programme Director for the MSc Speech-Language Pathology at Moravian College, Pennsylvania, USA
- Over €250k in research grant funding
- Pauline Frizelle received a DOCTRID research grant: An investigation of the understanding of complex sentences in children with intellectual disability and Autism (€20k)
- Alice Lee was PI on an IRC Doctoral Scholarship awarded to Deirdre O'Leary (€72k) in 2017, and received an HRB grant in 2016: Profiling receptive and expressive prosodic skills in children with spina bifida and hydrocephalus in 2016 (€220k)
- Helen Kelly received a HRB grant in 2017 (Use of Software and Computer Technology in Aphasia Rehabilitation) (€159k), and an additional HRB-KEDS grant supporting the same project in 2017 (€15k)
- Professor Nicole Müller, Dr Joseph McVeigh and Dr Helen Lynch are co-investigators on a grant from the National Patient Safety Office: Development of a Competency Framework for Clinical Effectiveness Education (€25k) (PI: Elaine Lehane, Nursing)

Other Highlights

- Department of Speech & Hearing Sciences and DeafHear announce partnership (2016)
- First graduates of MSc Audiology conferred in UCC's Autumn Conferings 2017

- Physiotherapy staff have secured student placements after extensive engagement with the HSE and physiotherapy managers.
- Enrolled doctoral students have doubled
- Brid Dunne received her PhD
- Brid Dunne & Eoin Gorman received their Certificate in Teaching and Learning
- Patrick Hynes received his Diploma in Teaching and Learning



First MSc Audiology graduates with Dr Siobhan Laoide-Kemp, Audiology Lecturer, and Professor Nicole Müller, Head of Department of Speech & Hearing Sciences

4.2. CORK UNIVERSITY DENTAL SCHOOL & HOSPITAL

Programmes taught by the School	Diploma in Dental Hygiene Diploma in Dental Nursing Graduate Entry Bachelor in Dental Surgery Bachelor in Dental Surgery Doctorate in Clinical Dentistry (Orthodontics) PhD
Number of students in the School by FTE	245.45
Number of students in the School by Headcount	295
Number of staff in School by FTE	104.56
Number of staff in School by Headcount	149

New Dental School

- Cost Benefit Analysis Completed
- UMTO - Proceed to tender for the design team
- Health Service Executive (HSE) representation included on the steering group for the New Dental School

New Appointments

- Dr Christine McCreary appointed as Dean of Dental School & Hospital
- Professor of Restorative Dentistry
- Senior Lecturer in Restorative Dentistry
- Specialist in Prosthodontics
- Adjunct Professor Dental Public Health
- Adjunct Lecturer Dental Public Health
- Adjunct Lecturer Oral Medicine

Awards / Prizes / Distinctions

- **Undergraduate (6)**
 - Quercus Scholars (3)
 - Irish Endodontic Society (1)
 - Irish Dental Association - Tony Costello Medal (1)
 - British Society of Oral Medicine Presentation (1)
- **Postgraduate and Staff (7)**
 - IADR Senior Hatton Award (1)
 - Fellowships – Royal Colleges (2)
 - Masters in Business Administration (MBA) (1)
 - Completion of Aurora Leadership in Higher Education Programme (2)
 - Appointment to Irish Expert Body on Fluorides and Health (1)
- CUDSH Highly Commended at Plain English Awards 2017

- Graduate of CUDSH awarded the title of Scotland’s Dentist of the Year 2017

Research

- 8 Competitive Grants (total income €374K)
- 34 Publications
- 16 Conference Presentations
- 1 Development of 3-D teaching application for tooth morphology

Events

- Fluoride and Caring for Children’s Teeth Study (FACCT) Training Day held in September 2016
- Head Neck and Cancer Awareness Day and Workshop September 2017
- Clinical Governance Day 2017

Other Highlights

- Dental Council Visitation October 10th – 11th 2017 (including external assessors from Italy and Wales and representation from New Zealand, Canada and Australia)
- Facilitated the Dental Council of Ireland Examinations for non EU candidates June 2017
- Facilitated the National Canadian Examination Board Examinations March 2017 (only centre in Europe)
- New Dental Lecture Theatre / Student Space and Dental Hygiene Clinical Office Area
- Professor Martin Kinirons retired as Head of Dental School and Hospital 2017
- Dental Outreach in Nepal 2016 and 2017



Dental Outreach in Nepal 2017

4.3. SCHOOL OF MEDICINE

Programmes taught by the School	MB Bch BAO Medicine – Direct Entry MB Bch BAO Medicine – Graduate Entry MSc Human Anatomy MCh Medicine Surgical Science MSc Obstetrics and Gynaecology PG Cert, Dip and MSc Older Person Rehabilitation PG Dip Palliative care MMedSc Sports and Exercise Medicine MRes Health Professions Education
Number of students in the School by FTE	2017-18 UG – 1283.56 PG – 392.26
Number of students in the School by Headcount	Undergraduate – 1487 Postgraduate - 408
Number of staff in School by FTE	279.2 FTE
Number of staff in School by Headcount	360 FTE Staff *(includes a number of joint academic and technical / clinical appointments and administrative appointments at the clinical sites) 519 Clinical Senior Lecturers (Full time medical consultants appointed throughout the network of clinical sites. This group facilitates and supports the education and research activities of the School and hold honorary contracts with UCC School of Medicine)
Graduate numbers 2017	MB (direct entry) – 178 MB (graduate entry) – 70 MMedSc Sports and Exercise Medicine – 10 MSc Obstetrics and Gynaecology – 4 MRes Health Professions Education – 5 MSc Older Person Rehabilitation – 6 Masters in Surgical Science - 6 MD – 9 PhD -19

The School of Medicine has had a busy and productive year in 2017. The year saw the largest ever number of medical graduates conferred in the history of the School (228). The School is excited to announce the launch of a key new undergraduate BSc in Medical and Health Sciences for the September 2018 student intake, which will be an important element in the growth and development of health scientists within the university for the benefit of health science innovation and health care delivery locally and beyond. In addition, the School has been active in the development of a number of new taught and research programmes at both undergraduate and postgraduate level with varying focus, which will have wide-ranging appeal to doctors and other health scientists and health care professionals. Productive research and innovation continues across the school. The school is constantly growing its partnerships with its associated hospital and general practice teaching site and clinical personnel network within the region, with pivotal infrastructural developments in progress. The quality of the School of Medicine staff and students is reflected in the many awards and achievements made over the course of 2017. The following report is not comprehensive of all activities

and achievements within the school, but rather synopsis some of the key developments, events and achievements of students and staff at the school. The School administration will be happy to facilitate additional information or queries relating to any activity of the School of Medicine.



UCC MB Degree Conferring Ceremony May 2017

New Programmes Launched and Finalised in 2017

- **BSc Medical & Health Sciences – New CAO programme**
(September 2018)
- **BSc Paramedic Studies**
(January 2017)
- **Masters in Health Profession’s Education**
(September 2017)
- **MSc Human Anatomy**
(September 2017)
- **MSc Digital Health (with College of Business & Law, Cork University Business School)**
(September 2017)
- **Doctorate of Clinical Psychology (with the School of Applied Psychology and HSE)**
(September 2017)

Senior Appointments

- Professor Stephen Cusack became interim Dean / Head of School of Medicine on September 1st 2017. The appointment of a full-time replacement is pending.
- Paula O’Leary – Professor in Medicine (Lead Clinical Education)
- Patrick Sheahan – Professor in Otolaryngology
- A number of key senior appointments are in process in the Department of Pathology (Chair, Professorship), Medicine (in combination with APC and Microbiology – Professorship in Immunology); Medical Education Unit (Senior Lectureship); Academic posts in Surgery – Colorectal and Orthopaedics, University Hospital Waterford

- The School continues to recognise excellence and academic contributions by its affiliated Clinical Staff through the appointment to Clinical Professorships (non-funded posts). In 2017, there were 10 medical consultants honoured: Professors Louise Burke (CUH - Pathology); Eugene Cassidy (CUH - Psychiatry); Mark Corrigan (CUH – Surgery); Rob Landers (UHW – Pathology); Terry O’Connor (MUH – Medicine); Seamus O’Mahony (CUH – Medicine); Michael GJ O’Sullivan (CUH – Surgery); Liam Plant (CUH – Medicine); Max Ryan (CUH – Radiology)

Infrastructure

- The proposed €12m EIB-supported investment to build a Clinical Medical School on the campus of Cork University Hospital is progressing at a preliminary stage with active engagement of key stakeholder groups. A working group is in place and a steering group led by the Dean and representing all involved bodies is underway.
- The School continues to promote and support the improvement in teaching and learning facilities across the South-South West Hospital Group and in the affiliated Primary Care / General Practice network. Major refurbishments have taken place at SIVUH, University Hospital Kerry and CUH in the last 12 months.

Research and Innovation

Members of the School of Medicine continue to perform at a very high level across a broad range of research and innovation themes. The following section gives an outline of that research, while not claiming to be comprehensive of all activities and achievements in this area over the last year.

Some notable research highlights in 2017

- Internal school research collaborations and supports: - TRAP – translational research access fund to promote new scientific collaborations between clinicians and health science researchers – 4 awards made to new clinician – scientist partnerships in 2017.
- The School actively promotes research awareness and activity at an undergraduate level through core curriculum modules. The School hosted the 4th Atlantic Corridor Medical Student Research Conference in November 2017. This intervarsity undergraduate research showcase provided an opportunity to enjoy presentations on a diverse range of clinical and translational medical research projects completed across two of the ‘Atlantic Corridor’ medical schools – UCC and NUIG. The School also supports and promotes student research through a series of undergraduate research support grants to facilitate this research. Five undergraduate medical students received HRB summer studentship funding this year, which is testament to the quality of the proposals presented and the research supervision provided by staff members of the school.
- APC Microbiome Institute and INFANT form important bases in which many members of School of Medicine staff engage in research. The development of these centres and participation by school staff provides an important and intrinsic framework for research discovery, income generation and innovation of international standing.

*Atlantic Corridor Medical Student
Research Conference November 2017*



- The HRB – Clinical Research Facility at UCC under the leadership of Prof Joe Eustace provides support and expertise for clinician researchers across the network of clinical sites affiliated to the University. The unit is based in MUH. The high level of research activity involving the CRF and undertaken at CUH has prompted the development of CRF offices in CUH. This is a welcome development for CRF core staff and affiliated CUH-based researchers alike.

Some of the notable achievements of the alliances supported through the CRF are:

- Wellcome/HRB Irish Clinical Academic Training programme (I-CAT), co-funded by UCC School of Medicine with Dr Deirdre Murray as the UCC lead investigator, recruited its first cohort of trainees undertaking a combined Specialist Registrar/PhD programme.
- The SENATOR trial (PI Prof. Denis O'Mahony), a European FP7 funded multinational trial which aims to reduce adverse drug events in older adults with multiple comorbidities recruited its 1000 participant and is on target to recruit 1500 subjects by Quarter 2, 2018. Prof O'Mahony is also leading locally on an EU Horizon 2020 funded multinational study called OPERAM and the associated randomised clinical trial recruitment is progressing on target.
- Completion of recruitment for CF Matters, an EU funded multinational trial lead by Prof Barry Plant investigating the role of using next generation sequencing in understanding and treating the lung/gut microbiome in acute and chronic infection in patients with cystic fibrosis.
- Prof. Jonathan Hourihane (Professor of Paediatrics, School of Medicine) has developed Cork as a leading site internationally in clinical trials of desensitization immunotherapy for children with potentially life threatening peanut-allergies.
- Dr Conor Deasy, Consultant in Emergency Medicine and Honorary Senior Clinical Lecturer School of Medicine, initiated recruitment into two large global trials examining novel treatments for Traumatic Brain Injury and Gastrointestinal Bleeding.
- School of Medicine endorsed the development of Irelands first fully on line Master's Degree in Clinical Trials
- Prof. Noel Caplice completed a UCC sponsored, HRB funded, phase II Regulated Academic Clinical Trial demonstrating the cardiovascular benefits of a novel intervention at the time of angioplasty following myocardial infarction.
- Dr Deirdre O'Brien (Consultant Microbiologist MUH, Honorary Senior Clinical Lecturer School of Medicine) commenced trial of novel care pathway aimed at reducing unnecessary antibiotic prescribing in an acute hospital setting
- Prof James Harty (Prof of Orthopaedics) and Prof Michael Maher (Prof. of Radiology) completed a study examining novel low dose CT assessment of fracture healing following tibial fracture.
- Establishment of the Cork Breast Research Centre as approved by the university RICU board.
- The research profile of the Medical Education Unit continues to grow. Dr Deirdre Bennett, head of the unit has received funding under the HRB Applied Partnership Award to undertake

a study titled Enhancing Doctors' Engagement with the Regulation of Professional Competence

- Dr Tony Foley, Department of General Practice is PI on a project titled Primary Care Education, Pathways and Research in Dementia (PREPARED) funded by the HSE and The Atlantic Philanthropies as part of Ireland's National Dementia Strategy Implementation Programme (2014-2018). This project was awarded the best Educational Project award at the 2017 Irish Healthcare Awards.
- Dr Paddy Harrison, Dept. of Physiology received grant funding to support a projects studying HITI-gene editing in Cystic Fibrosis from CFF USA and CF Trust UK; Gene Editing of iPSC in a model of atopic dermatitis (LEO Foundation, DK as part of an international UK:US consortium.
- A collaboration between staff in UCC Depts., Psychiatry & Behavioural Sciences, Physiology, & Anatomy & Neuroscience (Ger Clarke, Ted Dinan, Ken O'Halloran, John Cryan) to study Runaway Kynurenine Pathway Metabolism and Control: Towards Improved Treatment Outcomes in Major Depression has been funded by the Health Research Board
- Ken O'Halloran, Dept of Physiology received grant funding in collaboration with the Universities of Aberdeen and Bristol from The British Heart Foundation to support a study probing a novel glutamatergic mechanism in baroreceptor terminals to control hypertension
- A study of cognitive decline in muscular dystrophy funded by the HRB is being undertaken by Mark Rae & Dervla O'Malley, Department of Physiology.



The PREPARED team; Dr Aisling Jennings, Ms Katherine Thackeray, Ms Siobhan Boyle, and Dr Tony Foley.

Awards and Achievements Highlights

Academic Recognition

- Professor Fergus Shanahan was awarded a Gold Medal for contributions to Biosciences from the Royal Irish Academy
- Professor Ted Dinan, Head of Department of Psychiatry and Neurobehavioral Science was cited in the honour list of the Royal Academy of Medicine in Ireland (RAMI) October 2017 for his contribution to excellence in medical science in Ireland.
- Professor Dinan was ranked as the number 1 Medical Researcher in Ireland by the Irish Journal of Medical Science and no. 2 in Ireland by Google Scholar.
- Professor John Cryan, Head Department of Anatomy and Neuroscience was named among the world's most highly cited researchers of 2017 by Clarivate Analytics.
- Professor Cryan was granted the Research Mentor Award from the American Gastroenterology Association and was granted the Tom Connor Distinguished Investigator Award from Neuroscience Ireland

- Professor Colin Bradley, Head of Department of General Practice was awarded a Fulbright HRB Health Impact Award and is currently on sabbatical in the United States undertaking the work facilitated by this scholarship
- Professor Denis O'Mahony, Department of Medicine made invited contributions to the Oxford Textbook of Geriatric Medicine, published in 2017 and to the Oxford Textbook of Medicine (in press for 2018)
- Professor Seamus O'Mahony, Clinical Professor in Medicine was awarded the BMA Council Chair's Choice Award at the BMA Book Awards 2017 for his book titled "The Way We Die Now", published by Head of Zeus in 2016
- Professor George Shorten, Professor of Anaesthesia and Intensive Care Medicine was named as the 2017 Goudsouzian Scholar by Massachusetts General Hospital / Harvard Medical School.
- Professor Mary Horgan, immediate past Dean, took up the Presidency of the College of Physicians in Ireland in October 2017, the first UCC member of staff and the first woman to do so.
- Professor Max Ryan, Clinical Professor in Radiology became Dean of the Faculty of Radiologists at RCSI in 2017
- The School of Medicine was nominated by the National Ambulance Service as the preferred academic partner to provide education in Paramedical Sciences.

Senior Appointments to learned societies / journal editorships

- Professor Thomas Walther, Head, Clinical Pharmacology and Therapeutics became President of the Irish Association of Pharmacologists
- Dr Niall Hyland, Senior Lecturer in Clinical Pharmacology and Therapeutics became Vice President of the British Pharmacological Society
- Professor Ken O'Halloran, Professor and Dr Paddy Harrison, Senior Lecturer, Department of Physiology, elected fellows of the Physiological Society
- Prof John Cryan, Head, Department of Anatomy and Neuroscience, was invited to become a member of the Royal Irish Academy. He has also become the president of the European Behavioural Pharmacology Society
- Professor Jonathan Hourihane, Head of Department of Paediatrics and Child Health is President of the Irish Association of Allergy and Immunology
- Professor Aideen O'Sullivan has been appointed Editor in Chief of the journal "Neuronal Signalling"

Student Awards

- NUI HH Stewart Scholarships (1st place prizes) were awarded to UCC students in Anatomy, Biochemistry, Pharmacology, Epidemiology and Physiology. This is a major achievement as it reflects on the quality of students and dedication of teaching staff.
- Dr Holly Acton, MB graduate 2017 was awarded the Fielding Prize in Radiology, a national student prize made by the Faculty of Radiologists for Undergraduate research work conducted in the area of Radiology
- Mr Sean Whelan, a current final year medical student was awarded the College of SEFS Graduate of the Year award for his performance in an intercalated BSc degree in Neuroscience
- Mr James Healy (BSc Physiology 2017) announced as College of SEFS Graduate of the Year

- The Medical Student Societies at UCC were awarded 10 prizes at UCC’s Student Awards 2017. The Chairpersons of UCC Medical Society, UCC Friends of MSF and Surgeon Noonan were all awarded Bene Merenti Awards. The MedSoc was also awarded Most Improved Society at the National Societies Awards.



Chairs of UCC Medical Societies with tier awards at a Medical School reception held at Brookfield Health Sciences Complex to honour their achievements.

- An American Physiological Society Award was made to David Burns, PhD student in Department of Physiology
- Ms Katie Togher, PhD research student in the Department of Anatomy and Neuroscience, Obstetrics and Gynaecology / INFANT centre and APC was a finalist in the Science for All national competition.
- UCC Intern Network South has appointed the first cohort of interns training on an academic track in July 2017.

Events at the School of Medicine

- Annual New Horizons meeting, which showcases a broad range of the research activities undertaken within the school and its affiliated research centres and clinical sites.
- International Stillbirth Alliance Conference September 2017
- 10th Annual Diabetes in Primary Care Conference 2017
- 6th International Conference on Fetal Growth September 2017
- UCC Medical Graduate Association and Gala Dinner, November 2017
- National Higher Training Course in Breast Disease, 2017
- Hosting of the country’s first cadaveric surgical training course in general surgery in partnership with the ASSERT facility
- INMED – Irish Network of Medical Educators Annual Meeting, Feb 2018



Dr Keelin O’Donoghue, Chair of the International Stillbirth Alliance (ISA) Conference, Ms Claire Storey, Co-Chair ISA Board and Professor Vicky Flenady, Co-Chair ISA Scientific Advisory Committee.

Outreach, Global Engagement and Internationalization

- The School of Medicine has the most diverse international student population in UCC. The school continues to develop and promote international links for recruitment and selection of students for its programmes across south east Asia, North America and into new sites. Prof Cusack is currently leading a selection delegation in Malaysia, Thailand, and Brunei
- The School of Medicine continues to develop links for student elective and exchange arrangements with Universities in Lille and Nantes, France, Gothenburg, Sweden and Mahidol University, Bangkok, Thailand
- A delegation from the Department of Obstetrics and Gynaecology visited Erasmus Medical Centre in Rotterdam, Netherlands
- The School of Medicine continues to run the highly successful Pre4Med programme for transition year secondary students considering Medicine as a career option
- The School of Medicine has contributed to the RTE BrainStorm Series
- Dr Eanna Falvey, Senior Lecturer in Medicine (Sports and Exercise) headed the Medical Team for the British and Irish Lions Tour 2017 in New Zealand

Other

- Prof John R Higgins, immediate past Head, College of Medicine and Health and Chair Department of Obstetrics and Gynaecology has become the first Clinical Director for Maternity Services in South Southwest Hospital Group
- Prof Fergus Shanahan, Chair and Head, Department of Medicine has become Group Clinical Director for South / South West Hospital Group
- Prof Helen Whelton, Head College of Medicine and Health has become Chief Academic Officer for the South / South West Hospital Group
- Professor Paula O’Leary, Department of Medicine has joined the Board of Directors at Mercy University Hospital, Cork
- The School of Medicine underwent an accreditation assessment of undergraduate medical programmes by the Irish Medical Council in November 2017. A parallel assessment of the UCC led intern network and of postgraduate medical training at the hospitals of the South South West hospital group, facilitated by many members of the School of Medicine staff, also took place.

Personal

- The School notes the remarkable Long Service Award made to Mr Kieran McDonnell, Department of Physiology, marking 50 years of employment at UCC.
- The School of Medicine notes with regret the death of Dr Bridget Maher, an esteemed colleague and Senior Lecturer in the Medical Education Unit in May 2017. May she rest in peace

4.4. SCHOOL OF NURSING & MIDWIFERY

Programmes taught by the School	17 (UG = 2; PG = 10; G = 5)
Number of students in the School by FTE	917.24 (March 2017)
Number of students in the School by Headcount	1190 (UG 793; PG & G= 397)
Number of staff in the School by FTE	68 – 100%; 1- 90%; 9 – 80%; 1-60% and 1- 50%
Number of staff in the School by Headcount	80 (includes all permanent full-time and contract full-time and part-time) <u>Does not</u> include any staff on contracts from research grants.

The School of Nursing and Midwifery was founded 1994 and is recognised as one of the most progressive and avant-garde schools in Ireland. The continued annual increase in applications from high achieving applicants to the various pre-registration programmes ensures that the school remains one of the most competitive schools of Nursing and Midwifery in the country.

Over 2016-2017, the School of Nursing & Midwifery has continued to meet its strategic objectives in line with College and University strategic goals. This year marks the end of its 5-year strategy cycle strategy. Significant highlights for 2016-2017 are as follows:

World Ranking

For the second year in a row, the School maintained its world ranking within top 100. The subject of Nursing was entered into QS world ranking for the first time in 2015.

Professorial Appointments

The School has appointed two Professors, one as Chair in Nursing & Health Services Research (Professor Jonathan Drennan, Southampton University), and one as Clinical Professor in Older Persons Nursing & Health Care (Professor Corina Naughton, Kings College London). These appointments have greatly enhanced research funding income and active research engagement with health service providers.



*Professor Jonathan Drennan and
Professor Corina Naughton*

Teaching & Curriculum & Programme Development

Significant activity/achievements include:

1. Increase in annual intake of Undergraduate BSc Nursing Students by 15 students

The Undergraduate BSc Nursing quotas have increased across all disciplines (general, integrated children's and general, intellectual disability, and mental health). This increase is part of a Department of Health strategy to increase number of graduates in light of current workforce shortages in the HSE. While welcomed, there is ongoing negotiation with health service providers (HSPs) in the South/South West Hospital Group regarding clinical placement capacity.

2. MSc in Nursing & Healthcare Quality Improvement

This MSc programme was developed and then commenced in September 2017. Although the School has been very proactive in developing blended online programmes, this is the first fully online programme. Currently students are from Ireland and Canada. It is planned to grow with increased global reach.

3. Interdisciplinary Masters Research Module

The School led the development (2015) and implementation (2016-2017) of a blended-online research module for all MSc programmes across the COMH, thereby involving all Schools in the College. This initiative has generated great enthusiasm for collaboration, sharing of experiences, intellect, and resources. The module was led by Dr Elaine Lehane, School of Nursing & Midwifery.



Pictured (L-R): Dr Elaine Lehane, Ms. Anne Foley, Ms. Donna O' Doibhlinn, Dr Helen Mulcahy, Mr. Damien Drohan, Dr Vera McCarthy, Dr Siobhan Laoide-Kemp, Dr Colm Tuathaigh, Professor Eileen Savage. Students taking MH6014 module

4. Successful Tender to HSE for MSc in Advanced Nursing Practice

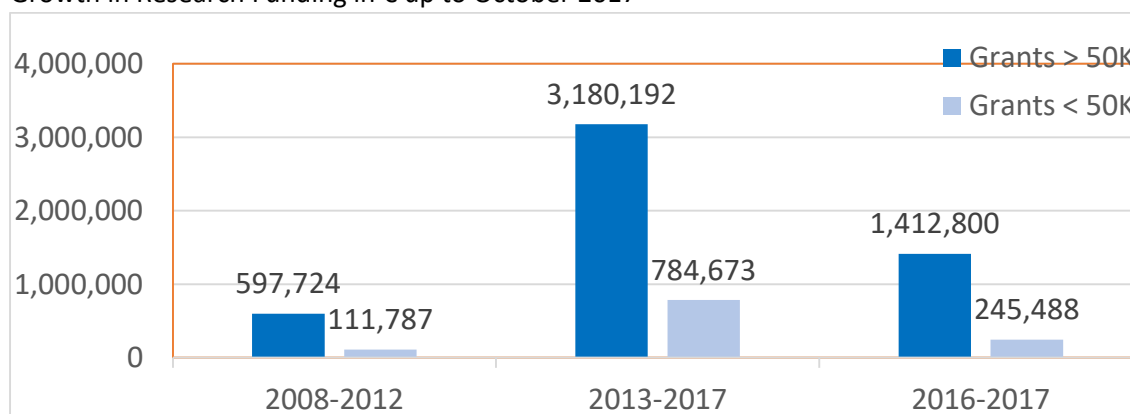
The School led a consortium (UCC, NUIG, UCD, TCD) and was successful in tendering for a broad based national standard MSc in Advanced Nursing/Midwifery programme funded through the Department of Health/HSE. This programme is part of a national strategy to increase the nursing workforce of ANPs by 2%. The programme commenced with 22 students in September 2017.

Overall, regarding PG education and CPD, the School is experiencing a shift from the HSE towards tendering for programmes. The school is proactively addressing this by identifying HSE priorities, and doing some ground work to ensure 'readiness' when calls to tender are advertised.

Research

There has been significant growth in research funding, which includes University, national and international collaborations. The growth over this 5-year strategy cycle is presented in the following figure along with growth for 2016-2017. Research income on safe nurse staffing led by Professor Drennan has resulted in a major boost to funding income.

Growth in Research Funding in € up to October 2017



Example of funded projects are:

- Safe Nurse Staffing (HRB- targeted funding)
- Implementation of Clinical Guidelines on HCAs (HRB partnership awards);
- Advanced Care Planning (HRB –project grant)
- Self-Management Support for Chronic Disease (HSE –Programme for Health service improvement)
- Co-production involving mental health users in UG education (Erasmus).

Internationalisation

Continued growth in international students to 60 – most students are from India but other countries are China, Indonesia, Thailand & Vietnam, Saudi Arabia, Lebanon, Kuwait, Canada, and USA. The increase is seen in the BSc top up programme, MSc programme and PhD programme. The school is now collaborating with University of Airlangga, which is the 2nd highest ranked University in Indonesia. Professor Eileen Savage is a Visiting Professor in the Faculty of Nursing and plans to develop a joint PhD programme are underway.



MSc Graduate 2016 from India and Saudi Arabia.

Student Achievements

Three undergraduate students achieved top prizes in the NUI Dr HH Stewart Medical Scholarships in Nursing and Midwifery 2017.



Award winners Amy Fitzgerald, Daniel Cahill, and Hazel O'Sullivan with Dr Elaine Lehane and Dr. Angela Flynn

In 2016, the School introduced awards to recognise student achievements in a variety of categories e.g. Good Citizenship, Outstanding Contribution to Sports, Entertainment & Arts, Undergraduate & Postgraduate Student of the year, Outstanding contribution to Student Life, and Student Leader of the Year. The following picture includes the 2017 recipients.



Staff Achievements

- Professor Josephine Hegarty won “Research Supervisor of the Year” 2017
- Senior Lecturer Dr Harry Gijbels received the International Human Rights and Nursing Award (September 2016)
- School of Nursing and Midwifery Staff received the Marie Keating Foundation Health Promotion Bursary
- Mr Lloyd Philpott awarded first poster prize at International Network for Doctoral Education in Nursing (INDEN) Conference.

Dr Joan McCarthy, Lecturer Healthcare Ethics, School of Nursing and Midwifery UCC, addressing the Citizens' Assembly UCC, addressing the Citizens' Assembly on 8th Amendment of the Constitution: Dublin on the 5th of February 2017



4.5. SCHOOL OF PHARMACY

Programmes taught by the School	BPharm/MPharm MSc Clinical Pharmacy MSc Pharmaceutical Technology & Quality Systems PG Cert (Bio) Pharma Processing (Adult Ed) Cert Nurse Prescribing
Number of students in the School by FTE	257
Number of students in the School by Headcount	438
Number of staff in School by FTE	24.5
Number of staff in School by Headcount	26

The School of Pharmacy was established 2003 and offers a number of programmes at both undergraduate and postgraduate level. Highlights of 2016/17 include:

Awards & Achievements

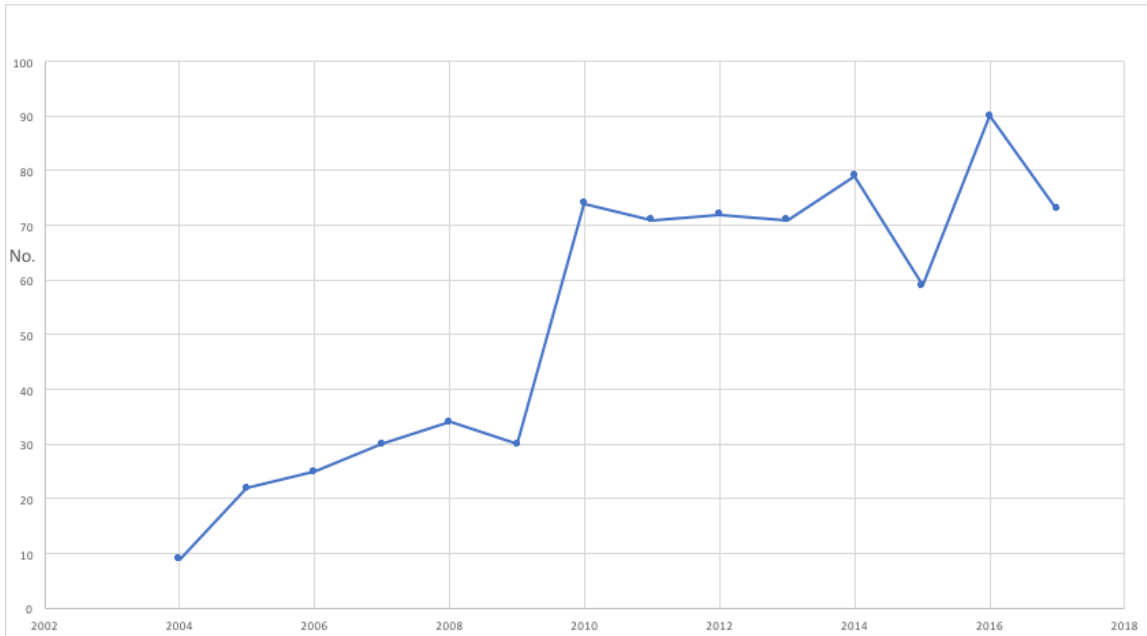
- QS World Rankings Top 100 by subject
- MSc in Clinical Pharmacy Postgraduate Course of the Year 2016 in Health Sciences category at Grad Ireland Higher Education Awards (November 2016)
- Pharmacy Graduate won 3rd Prize at TOPRA Annual Symposium (2016)
- Dr Abina Crean was the recipient of Cork Conference Ambassadors Award
- Dr Waleed Faisal was awarded Best Poster Prize at 3rd annual Pharmaceutical Manufacturing Technology Centre (PMTc) Knowledge Day
- Mr Gary O'Brien won Perrigo Young Pharmacist of the Year 2017 Award at Clanwilliam Pharmacy Awards
- School of Pharmacy PhD Candidate was the winner of the Young Investigator Award



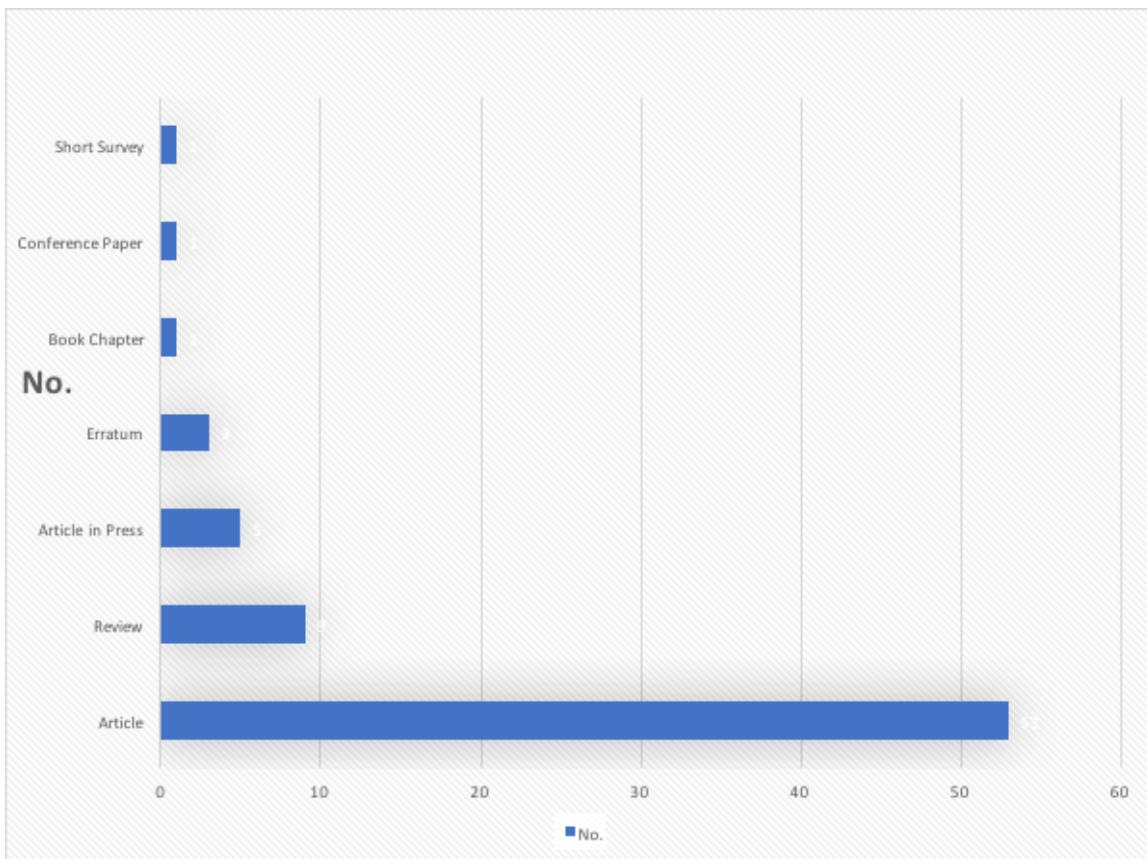
Mr Gary O'Brien, Perrigo Young Pharmacist of the Year 2017

Research

- 73 publications from staff of the School of Pharmacy in 2017 (Scopus.com – advanced search)
- Publications per year since 2004:



- Publications in 2017 by paper type:



Events

- First Regulatory Science Symposium was jointly organised by School of Pharmacy and PEARRL EU (Pharmaceutical Education and Research with Regulatory Links) training network

Global Engagement & Internationalisation

- School of Pharmacy hosted successful Clinical Pharmacy Summer School for Future University in Egypt (FUE) students (2016 and 2017)
- School of Pharmacy and Bill Gatton College of Pharmacy established a Collaboration in 2017

Other Highlights

- Almost €1m income generated in 2016/17 academic year
- Currently working on three European grants (Senator, OPERAM, PEARRL) as well as Enterprise Ireland, Science Foundation Ireland and Irish Research Council grants and a number of industry funded grants.
- CAO Entry points were 565 (2017)
- Record Number of MSc Clinical (n=38) and MSc QP (n=28 (plus 3 CPD)) students enrolled.
- Research PhD students (n=31) and MSc students (n=4).
- Team Approach 2017 – Relay for Life
- Athena SWAN Bronze Award Application submitted (November 2017)



The School of Pharmacy hosted its second Clinical Pharmacy Summer School in August 2017. Pictured (l-r): Mr Mahmoud Fathy Ibrahim, FUE; Prof Stephen Byrne, UCC; Professor Nabila El Maraghy, FUE; Prof Patrick O'Shea, President of UCC; Ms Dina Khaled Aboelfadl, FUE and Dr Margaret Bermingham, UCC

4.6. SCHOOL OF PUBLIC HEALTH

Programmes taught by the School	One undergraduate and six PG programmes <ol style="list-style-type: none"> 1. BSc in Public Health Sciences 2. PG Certificate in Health Protection (Delivered both online and on campus) 3. Master of Public Health (Delivered both online and on campus) 4. MSc in Occupational Health (Delivered both online and on campus)
Number of students in the School by FTE	292.5
Number of students in the School by Headcount	Total Undergraduate Students: 113 Total Postgraduate Students: 121 Total Students: 234 BSc in Public Health Sciences: 113 Campus MPH: 58 Campus MSc in Occupational Health: 21 Online MPH: 21 Online MSc in Occupational Health: 10 Online PG Cert in Health Protection (January 2018): 7 PhD Students: 11 Medical School Modules – and no. of students: HC3008 – 137; HC2002 - 119; GM1020 - 79; GM 2020 – 70
Number of staff in School by FTE	31.4 FTE
Number of Staff in the School by Headcount	40

The School of Public Health was established in 2017 following its extensive growth over 20 years as the Department of Epidemiology and Public Health. The School has a range of programmes on offer at undergraduate, postgraduate through to PhD level. Highlights of 2016/17 include:

Launch of the new School of Public Health in COMH

The School of Public Health was launched at an event held in the Aula Maxima UCC on November 22nd. The Lord Mayor of Cork, Cllr Tony Fitzgerald, President Patrick O'Shea and Prof Helen Whelton, Head of the College of Medicine & Health and Prof Ivan Perry, Dean of the School of Public Health spoke at the launch event. The launch included a short scientific programme with presentations from Prof Kristian Wahlbeck, National Institute for Health and Welfare, Finland, Prof Alicia O' Cathain, Director of Medical Care Research Unit, University of Sheffield, Prof Elizabeth Keane, Adjunct Professor/Public Health Physician and Dean of Faculty of Public Health Medicine at the Royal College of Physicians of Ireland, Dr Kieran Keohane, Department of Sociology, UCC, Prof Ursula Kilkelly, Head, College of Business & Law, UCC, Prof Sarah Culloty, Director, Environmental Research Institute, UCC and Mr Edward Murphy, Project Officer for Tobacco Free Ireland. Mr Murphy is a graduate from UCC's BSc Public Health and Master of Public Health (MPH) programmes.



Prof John Browne, Prof Helen Whelton, President Patrick O'Shea, Prof Ella Arensman and Prof Patricia Kearney at the Launch of the School of Public health, November 22nd

Student Awards & Achievements

- BSc Public Health Sciences student on placement with the WHO in Copenhagen co-authored major WHO policy report **'On the Road to Health 2020'**
- BSc Public Health Sciences 3rd Year student on Cork All Ireland winning Camogie team 2017
- SPHERE PhD student winner of 'Thesis in 3 Minutes' at conference of the Dementia and Neurodegeneration Network Ireland

Staff Awards & Achievements

- Dr Birgit Greiner was a recipient of the UCC Staff Leadership award in 2017
- Royal Academy of Medicine in Ireland Research Awards, November 2016: Prof Patricia Kearney and Dr Paul Corcoran were recipients of " Paper of the Year" awards
- Post-doctoral researchers Dr Leonard Browne, Dr Karen Matvienko-Sikar, and Dr Sheena McHugh win Royal Irish Academy Charlemont Award
- Dr Sheena McHugh was awarded a Fulbright HRB Health Impact Scholarship



Dr Sheena McHugh was awarded a Fulbright HRB Health Impact Scholarship. Pictured here (l-r): Mr Aaron Barker (another Fulbright HRB Scholar from UCC), Dr Sheena McHugh and Professor Colin Bradley.

Research

Ongoing Research Programmes

- HRB Centre for Health & Diet Research (Prof Ivan Perry)
- HRB SPHERE Doctoral training programme (Prof John Browne)
- HRB Research Leader award (Prof Patricia Kearney: Improving Care for People with Diabetes: a Population Approach to Prevention and Control)
- HRB Research Leader award (Prof Ella Arensman: Individual and Area Level Determinants of Self-Harm and Suicide in Ireland: Enhancing Prediction, Risk Assessment and Management of Self-Harm by Health Services)
- Siren Project Prof John Browne: Study of the Impact of Reconfiguration on Emergency and Urgent Care Networks
- Mitchelstown Cohort Study (Dr Janas Harrington)
- WHO Global Burden of Disease Study collaboration (Dr Zubair Kabir)
- Evaluation of “A Healthy Weight for Ireland: Obesity Policy & Action Plan 2016-2025 (Prof Ivan Perry)
- ERA-HDHL Joint Funding Action (EU): “Effectiveness of existing policies for lifestyle interventions – Policy Evaluation Network (PEN)”(Dr Janas Harrington)
- National Self-harm Registry (Dr Paul Corcoran)
- HRB Cherish Study (Prof Patricia Kearney)

Research Grants and Awards 2017

- Extension of HRB funding for SPHERE to 2024 (Prof J Browne - €2.5M)
- HRB DIFA Grant to examine ways to improve the uptake of retinopathy screening (Dr Sheena McHugh - €243,000)
- Environmental Protection Agency award: INHALE: Irish Nationwide Health and Air Quality Linkage (Dr Eilis O’Reilly & Dr Claire Buckley - €270,894.)
- Two HRB Knowledge Translation (KEDS) awards Prof Ivan Perry & Prof Patricia Kearney - €120,000)
- Safefood award to explore Parental perception of Child food portion size (Dr Janas Harrington - €87,079)
- Participation in Sport and Physical Activity among Irish children and youth and related matters: CSPPA Follow Up (2017-2018) (Dr Janas Harrington - €288,613)
- HRB TMRN SWAT Award for Core Outcome Set development in Cherish Study
- Children’s Research Network Ireland Award: Parental Stress and Feeding Practices
- Co-Applicant on two successful HRB grant applications with the INFANT Centre

Research Outputs

- 100 PubMed listed papers 2016/2017
- Increasing proportion of papers in high impact journals
- Three papers awarded RAMI medal in 2017 in endocrinology, primary care and mental health categories
- Two systematic reviews published in The Lancet Psychiatry (IF 11) within one month (June 2016, Prof Ella Arensman))

- Largest study to date on the impact of complications in women undergoing breast cancer surgery Published in Cancer (Prof John Browne)
- Major paper outlining a future research programme for users of patient-reported outcome measures Published in Medical Care (Prof John Browne)
- Co-authorship on a total of 16 Global Burden of Disease (GBD) Study papers published in the Lancet (2016-2017) in collaboration with the Institute for Health Metrics & Evaluation (IHME), United States, receiving 1000 citations in one year (Dr Zubair Kabir)
- Two papers in Obesity Reviews (IF 7.8) (Dr Emily Kelleher & Prof Ivan Perry)
- British Medical Journal editorial “Sugar, salt, and the limits of self-regulation in the food industry” April 2017 (Prof Ivan Perry)
- Safefood report “Lifetime costs of childhood overweight & obesity on the Island of Ireland” Costs estimated €7.2 Billion, discounted to 2015 values (Prof Ivan Perry)
- Traveller Women’s Food, Physical Activity and Health Study Report (Ms Mary Cronin)

Other Highlights

- “Food choice at work Ltd” spinout company from the School of Public health
 - Secured Enterprise Ireland and venture capital funding. Now employing 6 staff and engaging with major public sector bodies and private sector companies
 - Dr Fiona Geaney (CEO) participated in “StartUponomics@Google” event
 - Ranked by Google among top 40 companies worldwide that are likely to change the world for good
- Speakers from School at the HRB “Ones2watch” Conference 2017
- Transition year students from 4 schools in Cork co-researchers with PhD Researcher (Rebecca Dennehy) on a study of cyberbullying in teenagers



Rebecca Dennehy with transition year students from four schools in Cork. The students were co-researchers with PhD Researcher (Rebecca Dennehy) on a study of cyberbullying in teenagers.

4.7. GRADUATE SCHOOL

The Graduate School of the College of Medicine and Health was established in 2010 with the aim of providing the highest quality of postgraduate education within the College, and to enhance the postgraduate experience of students registered across the six constituent Schools. It currently supports over 600 students.

The School acts at College level to promote and achieve its aims, and to align its objectives with those of the National Framework for Postgraduate Education. This includes the provision of funding opportunities, statistical consultancy service and the organisation of a variety of academic, social and networking events. These combined activities help to promote cross-disciplinary knowledge exchange and contribute towards the creation of a vibrant and supportive postgraduate community in the College. The School is fortunate to have an enthusiastic Postgraduate student committee who organise a variety of Graduate School sponsored events, and fulfil an important role in the efficient exchange of information to, and from, the students.

At an administrative level, the School provides strategic and academic oversight on the postgraduate training programmes embedded within the College. This includes the Taught Postgraduate and CPD/ Lifelong Learning programmes, as well as research-led programmes that result in Masters, Practitioner Doctorates, MD and PhD degrees. It also ensures that graduate studies activities are undertaken in accordance with the governance, policy and regulatory frameworks of the University, and that the development of local policies takes place within the wider university strategic plan relating to 4th level education.

Highlights of 2016/17 include:



Dr Paul Brady graduated with a PhD (Dentistry) in October 2017. Pictured (l-r): Prof Helen Whelton, Dr Christine McCreary, Prof Declan Millett, Dr Paul Brady, Dr Frank Burke

- The successful graduation of 43 Doctoral students
- The organisation of Workshops and Networking Events, including:
 - ‘Writing a Good Research Paper’ Workshop

- 'Grant Proposals and Publishing Basics' Workshop
 - 'Writing your PhD' Workshop by Dan Soule
 - Tai-Chi Workshop
 - SPEAK- communication skills workshop series
 - SPSS Course
 - Winter Gathering
 - Summer BBQ
-
- The provision of Doctoral Student Travel Bursaries - €20,000 in travel bursaries was awarded through a competitive process to students who wished to present their work at international conferences or to attend training in support of their academic development.
 - The provision of Statistical Support Facilities – a dedicated statistical consultancy service was available to students, regardless of the stage of their research journey.
 - The launch of a new Graduate School Pocket Handbook, to enhance awareness of the role of the graduate school amongst students and support student recruitment.

During 2017 the Graduate School was also involved in a number of University level initiatives that were aimed at promoting our postgraduate programmes and supporting our students. This included:

- Research Student Orientation days
- Postgraduate Fairs
- University's 'Masters that Matter' digital advertising campaign
- Quercus Academic Taught Masters' scholarships
- Government of Ireland International Scholarships

In the area of Continuing Professional Development (CPD), the College provided a strong portfolio of CPD offerings (<https://www.ucc.ie/en/comhcpd/>) and we continue to work with the Office of the Vice-President for Teaching and Learning and the Schools in the development and implementation of governance and promotional structures for CPD.