On behalf of the Office of the Vice President for Research and Innovation (OVPRI), we welcome you to the second edition Research View, a new University College Cork (UCC) publication that highlights the excellence of our research community and the impact of their research.

UCC is an internationally competitive, globally-focused, research-led University. In the newest, world-wide university ranking system (U-Multirank), UCC scored the highest number of A grades - 21 out of a possible 28 - in the survey of the 1,200 higher education institutions from 83 countries adjudicated over the past two years. Indeed, the University received top grades in all of the ‘Research’ and ‘Knowledge Transfer’ indicators. In every issue of Research View we aim to capture the ground-breaking research that underpins the exceptional performance reflected in ranking exercises like U-Multirank. The spectrum of articles presented in this issue is no exception.

In the pages of this second issue, we learn of new achievements by UCC researchers, emerging opportunities in Horizon 2020, as well as an update on Open Access publishing. This issue also features an insight into UCC’s top global innovations, an update from the Office of Technology Transfer, and a profile of Professor Graham Allen from UCC’s School of English.

Research at UCC is exciting, ambitious and engaging. We look forward to sharing our research journey with you.

Professor Anita R. Maguire
Vice President for Research and Innovation

Dr David O’Connell
Director, UCC Research Support Services

Welcome to the second edition of Research View, a quarterly newsletter for UCC students, staff and all with an interest in the research activity of the University. The purpose of this newsletter is to announce research project awards and contracts and grants that have been funded in the previous quarter and to share with the university community the research accomplishments and related activities conducted by our researchers. Periodically, we will include feature articles or matters of interest to the research community as well as honours and awards received by faculty.

It is our intention that Research View will evolve over time. We welcome your comments, ideas, and participation.

Ms Deirdre Kearney
Research Information Officer, UCC Research Support Services

Inside this issue

Stay Connected

UCC Research Support Services website (www.ucc.ie/en/research/) is our clearinghouse of information to help you identify and secure funding opportunities, and get details of UCC research policies and procedures.

UCC Research on Social Media

Through our Facebook page and twitter account, we aim to deepen and broaden our contact with diverse national and international organisations. We will highlight up-to-date information about UCC’s research community and share information and resources that you can use. We invite you to ‘like’ our Facebook page or follow us on twitter and start a conversation with us!

www.facebook.com/ResearchUCC
https://twitter.com/UCCResearch

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Professor Graham Allen
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In a development that is an honour for both Ireland and UCC, the International Energy Agency (IEA) recently elected UCC’s Professor Jerry Murphy to a senior international role as Leader of the IEA Task 37 “Energy from Biogas” for the trimester 2016–2018.

The “Energy from Biogas” is the largest Task in IEA Bioenergy and derives its membership from 15 countries (Austria, Australia, Brazil, Denmark, the EU, Finland, France, Germany, Ireland, Korea, the Netherlands, Norway, Sweden, Switzerland and the United Kingdom). The role of the Task is to create the conditions for our gas grids to utilize green renewable gas.

UCC RESEARCHERS AWARDED ERC STARTING GRANTS

Dr Thomas Reed, a Beaufort Research Fellow in quantitative genetics, evolutionary biology and fish population genetics has been awarded an European Research Council (ERC) Starting Grant. Thomas’ project focuses on linking genes to phenotypes to demography.

Dr Maria McNamara also secured an ERC award to support her work on animal colouration from “deep time” when fossils began to form.

The Analytical Scientist magazine has ranked a UCC invention among its top global innovations of the year

The UCC-based BARDS (Broadband Acoustics Resonance Dissolution Spectroscopy) Research Centre offers a new platform technology with broad applications in the food and pharmaceutical industries, from R&D to at-line monitoring. The innovation was developed by Dr Dara Fitzpatrick and his team in the Department of Chemistry and the ABCRF (Analytical and Biological Chemistry Research Facility). The technology is fast, small, economic and simple to operate and creates a paradigm shift in powder and materials analysis. The BARDS team also received a UCC-Pfizer Award for Innovation through Teamwork.
Royal Irish Academy Charlemont Award for UCC Scholar

Dr Guangbo Hao of the School of Engineering was among the scholars awarded at the recent RIA Charlemont grants awards ceremony. Guangbo received his award for his research project titled ‘Finding the optimum structure of the three-axis force sensor for ultra-precision machining using screw theory’.

HRB Grant Awarded to Dr Deirdre Bennett

A HRB Medical Education Research Grant (2014) has been awarded to Dr Deirdre Bennett for a project titled “Exploring Clinical Learning Environments for Postgraduate Medical Education and Training”.

The research, which will be led by Dr Bennett, a Senior Lecturer in UCC’s Medical Education Unit, aims to provide an overview of opportunities and challenges that exist for trainee doctors’ learning, while working in clinical environments.

UCC STUDENTS NOMINATED FOR IRISH TIMES THEATRE AWARD

Current PhD candidate Tom Lane and UCC graduate Rob Moloney have been nominated for an Irish Times Theatre Award for Best Sound Design. Tom and Rob received the nomination for their work on Between Trees and Water by Painted Bird Productions.

The play by Fiona McGeown and Thomas Conway premiered in Cork in September and went on to feature at the Tiger Dublin Fringe Festival. The winners of the award were announced in Dublin on the 22nd of February 2015 with Teho Teardo and Helen Atkinson, for Ballyturk, by Enda Walsh, for Landmark Productions/GIAF ultimately winning the top spot.

National University of Ireland (NUI) Postdoc Awards

NUI Post-Doctoral Fellowship in the Humanities
Dr Colin Thomas Lahive
Dr Mary Frances O’Connell

NUI Post-Doctoral Fellowship in the Sciences
Dr Shane Vincent Hegarty
Dr Gillian Ruth Collins
Horizon 2020 Update

Up to the end of March 2015, UCC researchers secured 32 Horizon 2020 awards (12 as coordinator and 20 as partners) from 177 applications. This equates to a success rate of 18% and a financial drawdown of €17.7 million. Several 2014 call results are still pending (and which are expected over the first 4 months of 2015).

Awards to date equate to 16% of UCC’s institutional target for Horizon 2020 (€110.3M). Given that not all 2014 results are in, and that EU funding programmes are typically back-loaded, funding levels achieved against the ambitious Horizon 2020 target at this early stage provides a positive start. More generally, despite significant pressures on exchequer funding, UCC’s research income increased to €83.9 million in the academic year 2013/2014, an increase of 7% on the previous year. Reflecting the pressure on government funding, 30% of 2013/2014 research income was generated from non-exchequer sources. This represents a 3% increase on the previous year, and was primarily driven by an 11% increase in funding from EU programmes including FP7.

Horizon 2020 Activity Summary – 2014 calls

177 Applications submitted
32 Awards
12 Coordinated projects

Drawdown to Date - €17.7 million (16% of Horizon 2020 Target)

Interest in Horizon 2020 remains very high, with over 30 proposals, from across the University, already in development for 2015 calls.

HORIZON 2020 – SELECTED HIGHLIGHTS

• With 2 Starting Grant awards, the 2014 ERC Starting Grant call has been UCC’s most successful engagement in the ERC programme. Targeted UCC Research Support Services support, and the development of an ERC Support Strategy, has generated significant interest in upcoming calls of the programme, and applications are being actively supported.

• In the first ICT call of Horizon 2020, UCC secured 4 of the 10 coordinated projects awarded to Ireland including several proposals amongst the highest ranked in Europe.

• CACSSS secured their 1st collaborative project award under H2020.

• UCC Research Support Services, in collaboration with UCC Library and UCC IT Services, have secured funding from the EU for a two year project which aims to put in place sustainable mechanisms that support researchers in optimising their research visibility and impact, and the adoption of open access policies in line with EU objectives. One outcome of the project was an event in April to introduce to an Irish audience the emerging requirements for research data management and open access to data under Horizon 2020. Details of the event are provided on page 20-21 of this issue.
Tyndall National Institute a Clear Leader in Horizon 2020

Horizon 2020 is the biggest EU research and innovation programme ever with almost €80 billion dedicated to fund scientific and technological breakthroughs, and take them from the lab to market. EU leaders see investing in research as an investment in our future, ultimately delivering smart, sustainable and inclusive growth and jobs.

Tyndall National Institute’s strategic business plan embraces the core objectives of Horizon 2020 and is focused on driving real economic impact from their excellent research. Their alignment with Horizon 2020 is clear as just one year into the programme Tyndall National Institute has outperformed all expectations. They are celebrating the following successes with many more expected in 2015:

- 11 proposals retained with a value of €6.8 million, far exceeding targets for the first year
- €1.73 million delivered to Irish research partners including €1.25 million to industry
- 35 jobs directly attributed to Horizon 2020 projects
- 22% success rate for proposals - exceeding both the national average of 16% and the EU average of 14.5%
- 5 out of 15 successful proposals in Tyndall National Institute’s core area of Information and Communications Technology
- A significant increase in submissions for new areas leading to success in the Gateone and ASCENT projects. These projects facilitate SME and MNC access to Tyndall National Institute’s leading technologies and research infrastructure.

Tyndall National Institute’s Horizon 2020 success follows an excellent performance in FP7, Europe’s previous research investment programme running from 2007-2013. Tyndall National Institute partnered with over 420 organisations in 40 countries to deliver scientific and industrial outputs worth €299 million. They led 27 out of the 90 projects they were involved in, bringing €48 million in investment to Ireland.

This success is due in no small part to Tyndall National Institute’s EU Programmes team led by Dr. Giorgos Fagas, a former senior researcher at the institute. The dedicated team are focused on increasing the impact of EU project outputs, promoting Ireland’s industrial base and R&D infrastructure, and doubling Europe’s research investment in Ireland.
2014 was a very successful year for the transfer of UCC technologies and innovations. In 2014, the Office of Technology Transfer negotiated agreements for the commercial use of 21 technologies from a variety of technical backgrounds to be transferred to external companies. This number exceeds our previous high of 18 from a number of years back. This achievement from the case management team is even more remarkable given that the full team complement was not in place until the end of March. The new team, which we described in the previous issue, is already showing results. The licensees for the technologies were almost 50:50 split between spin-outs and other Irish SMEs and foreign multinationals reflecting UCCs ambition to both a regional force and an international standard.

Our next goals are to sustain this achievement and extend it to areas of the university that do not have a rich track record in this area. Any researchers that feel they have innovations, inventions or ideas that they feel have commercial potential should contact techtransfer@ucc.ie. We will do our best to help identify the commercial opportunity, identify a development path for the technology towards that commercial opportunity and apply for protection as appropriate for this new intellectual property.

Visit to Ignite and Gateway–UCC by Minister Ged Nash

Ged Nash, TD, Minister of State at the Department for Jobs, Enterprise & Innovation with special responsibility for Business & Employment and Ciaran Lynch, TD for Cork South Central visited both the Gateway–UCC Incubation Centre and IGNITE Business Innovation Centre on Friday 6th February.

Myriam Cronin, Gateway–UCC Incubation Centre Manager and Eamon Curtin, IGNITE Programme Director, presented a brief overview of the programmes and outcomes to date.

The visitors took the opportunity to hear, first-hand, of the challenges faced by those starting businesses in the region. Minister Nash and Mr Lynch, TD, met with many of the current IGNITE participants and Gateway–UCC clients.

Metabolomic Diagnostics secures €750k in second round funding

Metabolomic Diagnostics is a UCC spin-out established in 2013 to develop technology to help predict the risk of expectant mothers developing pre-eclampsia based on research undertaken by the Department of Obstetrics and Gynaecology and the Cork University Maternity Hospital. The Cork based company has secured an additional €750,000 in venture funding in January 2015 bringing the total investment in the company in the past year to €1.5m. The SOSventures Ireland Fund, as well as the AIB Seed Capital Fund and Enterprise Ireland, have invested in the company. Based in the Hoffmann Business Park, Little Island, Co Cork, Metabolomic Diagnostics currently employs seven people. "The second round of funding shows the sustained confidence in our pre-eclampsia tests, which are being developed at our site in Little Island in Cork," said Charles Garvey, CEO Metabolomic Diagnostics. The diagnostic blood test will be able to detect the risk of pre-eclampsia early on in the pregnancy and ultimately save the lives of women and their babies through personalised medical interventions.
**Global Product launch for Luxcel**

In early December, the Gateway–UCC Incubation Centre hosted the launch of the Luxcel Biosciences Greenlight test, a suite of rapid microbiology testing products for the dairy industry. Luxcel Biosciences, founded in Cork in 2002 by Richard Fernandes and Dmitri Papkovsky (Biochemistry, UCC), develops innovative technology to monitor growth and viability of cells for food, beverage and pharmaceutical safety. The launch was attended by Simon Coveney, Minister for Agriculture, Food, the Marine and Defence, who commented that the product and its launch is a “really exciting opportunity for us as a country. I think that this will reinforce the message that Irish food is safe, sustainable, tastes better and is produced on family farms.”

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**Irish Examiner profiles Gateway UCC**

Gateway–UCC Incubation Centre Manager, Myriam Cronin, was interviewed by John Daly of the Irish Examiner for an article published on Friday 9th January. The article provided Myriam with the opportunity to showcase the Gateway–UCC Incubation Centre and to talk about its role in job creation, innovation and entrepreneurship with the Irish Examiner and how the initiative contributes heavily to the lifeblood of our economy.


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**Research Event**

**RESEARCHER CONFERENCE 2015 – ENDURANCE IN RESEARCH**

UCC Research Support Services & HR Research, are delighted to invite you to attend the 2nd UCC Researcher Conference.

This conference is aimed at all research staff and highlights the personal characteristics required to develop a successful research career.

Presentations will showcase the experiences of successful researchers in a wide variety of fields, from UCC, Ireland and abroad, and offer advice on how to survive and thrive in today’s highly competitive world of research. The imagination and determination, patience and resourcefulness required bring to mind the motto of the great Irish explorer, Ernest Shackleton, “By Endurance We Conquer”.

Delegates will hear about the personal experiences of the speakers and why they made the decisions they made, what helped them and what mechanisms they used to enable their success. This year our keynote speaker is Professor Colin Carlile whose talk titled The Importance of being Bloody-Minded is sure to strike a chord with all of you.

With speakers from research, academia and industry plus practical advice on presentations, resilience in the workplace and grant applications, there will be plenty to absorb and learn. If you have ever stopped and wondered why you got into the wonderful world of research in the first place, and how you get from where you are to where you want to be, then this conference is for you!

Professor Graham Allen

Graham Allen is a Professor in the School of English, University College Cork. He received his BA (Hons) from St. Davids’ University College, Lampeter (Wales) in 1985, and an M.A. in ‘The Language and Philosophy of Criticism’ from the University of Sheffield (England) in 1986. He completed his Ph.D in the University of Sheffield in 1992. In 1990 he joined the Department of English in the University of Dundee (Scotland) as a junior lecturer. He moved to the Department of English in University College Cork in 1995.

Professor Allen is an internationally renowned literary and cultural theorist and a recognized expert in Romantic Literature, particularly the study of the Godwin-Shelley circle. In 1994 he published his first monograph, on the U.S. critic Harold Bloom, with Harvester Wheatsheaf. He followed that with books on Intertextuality (2000) and the work of the French semiotician Roland Barthes (2003), both published by Routledge in London and New York. In 2008 he published two books on the work of Mary Shelley, one with Continuum and one with Palgrave Macmillan. In 2011 his Intertextuality, which had been reprinted numerous times since its first publication, was reissued in an expanded second edition. This work, along with his book on Barthes, has been translated into a number of languages, including Persian, Japanese and Korean. Other essays by Professor Allen have been translated into French, Portuguese and Chinese. Professor Allen’s other books include The Salt Companion to Harold Bloom, edited with Roy Sellars (2007), Readings on Audience and Textuality, edited with Carrie Griffin and Mary O’Connell (2011), and special issues of journals, including The pupils of the university in parallax 40 (2006) and Where ghosts live, ed. with David Coughlan, in Derrida Today 5.2 (2012). Professor Allen has over 70 journal articles, chapters in books and encyclopedia entries, and in recent years has been developing an interest in a number of research areas, including the visual dimensions of the manuscripts of P.B. Shelley, the adaptation of literary texts into films, especially in the work of Stanley Kubrick, and the influence of chance and the contingent in literature, culture and art.

Professor Allen has an admirable record as the supervisor of postgraduate students, having overseen over 50 Masters dissertations, 2 postdoctoral fellowships, 9 completed doctoral theses, 10 successful IRC Postgraduate Scholarships, plus a number of other awards including a Fulbright Scholarship and a Major Postgraduate Scholarship (CACESS). He was a founding member of the College of Arts, Celtic Studies and Social Sciences Graduate School, and from 2009 to 2012 was Vice-Head of College ACSSS (Research), before becoming between 2012 and 2014 Chair of the Academic Council Research and Innovation Committee. In 2012 Professor Allen was awarded the inaugural ‘Research Supervisor of the Year’ award. UCC. He is a member of the London Graduate Centre and the advisory boards for Oxford Literary Review and Digital Literary Studies.

Professor Allen is also a poet and in 2014 published his first collection, The One That Got Away. This collection, along with his on-going epoem, HolesbyGrahamAllen.org, was published by the new Cork based literary publisher, New Binary Press. His poetry has already attracted considerable acknowledgement. The title poem of The One That Got Away won the 2010 Listowel Single Poem Prize. The collection was also shortlisted for the 2013 Crashaw Prize, a major U.K. award sponsored by Salt Publishers, London. A selection from his forthcoming collection, The Madhouse System, titled Curiosities, was shortlisted for the 2014 Fool for Poetry Prize sponsored by The Munster Literature Centre. In January 2015 it was announced that The One That Got Away was one of four short-listed books for the prestigious Strong/Shine First Collection Prize, the result to be announced at the Mountains to the Sea literary festival on 22 March. Professor Allen’s work has also featured on long and short-lists for the annual Kavanagh, Fish, and U.K. National Poetry prizes.
OPEN ACCESS AND SCHOLARLY PUBLISHING

Study shows more than half of peer-reviewed research articles published during 2007-2012 are now open access.

A series of reports released in October 2014 arose from a study by Science Metrix, which looked at the evolution of Open Access (OA) policies and availability in the period 1996-2013. The study was devised at the behest of the European Commission to develop a set of indicators to measure open access.

The core part of the study assessed the free availability of scholarly publications during the 1996 to 2013 period and represents the largest measurement of open access availability performed to date. It found, as of April 2014 that more than 50% of the scientific papers published in the period 2007-2012 can be downloaded for free on the internet. The authors proposed that the increase arose for 4 reasons:

- Historical growth in the interest in OA, which translates into new papers being increasingly available for free
- The growing interest in OA translates into the community increasingly making old papers available for free
- OA policies that allow for delaying OA produce a concomitant release of scientific articles which creates additional growth in old papers being made available for free
- The number of published scientific papers is growing, so even for a stable proportion of OA, the number of OA papers will keep growing.

Green Route – The author can self-archive at the time of submission of the publication whether the publication is grey literature, a peer-reviewed journal publication, a peer-reviewed conference proceedings paper or a monograph.

Gold Route – The author or author institution can pay a fee to the publisher at publication time, the publisher thereafter making the material available ‘free’ at the point of access.

The citation advantage of OA papers was examined and was found on average to be 40% higher than articles which were not freely available on the Internet. The greatest citation advantage was observed with green OA papers. Interestingly, while the number of papers published in gold OA journals grew exponentially over the period 1996-2012, this growth was not comparable for green open access.

The study also looked at the proportion of OA in different countries and in different disciplines. Four European Union countries have an aggregate availability score above 70% for the period 2008-2013 - the Netherlands, Croatia, Estonia and Portugal. Ireland’s proportion of OA papers was given at 67%. Unsurprisingly the fields with the greatest percentage of OA are general science and technology (90%), biomedical research (71%), mathematics & statistics (68%), and biology (66%). In UCC the greatest proportion of OA papers in CORA, the UCC institutional repository are published by researchers from the College of Science, Engineering and Food Science but interestingly the College of Arts, Celtic Studies and Social Sciences are the second highest contributors.
OPEN ACCESS AND RESEARCH DATA MANAGEMENT WORKSHOP: HORIZON 2020 AND BEYOND

UCC Library, UCC Research Support Services, Teagasc and the Repository Network Ireland (RNI) jointly hosted a 2-day event, at UCC, entitled: ‘Open access and research data management: Horizon 2020 and beyond’ on April 14th and 15th 2015. The event was funded by FOSTER (‘FACILITATE OPEN SCIENCE TRAINING FOR EUROPEAN RESEARCH’), a 2 year project EU funded project which aims to promote & ‘foster’ OPEN SCIENCE in research, optimize research visibility and impact and adoption of EU open access policies in line with the EU objectives on Responsible Research & Innovation.

On Day 1, which was aimed primarily at researchers and SMEs interested in developing Horizon 2020 proposals, UCC welcomed a full house with researchers from UCC and several other institutions including WIT, RCSI, NUIM, HSE and others, in attendance. Talks by speakers from Ireland and the UK provided:

- An overview of open access in Horizon 2020 and benefits of adopting open access
- Advice on addressing open access questions in Horizon 2020 proposals
- Advice on how to handle Intellectual Property issues in collaborative projects
- Case studies from research project successfully using research data management principles
- An introduction to the UCC Research Cloud Infrastructure Cloud and how researchers can make use of it and their services.

The breath and variety of examples and case studies presented provided a unique opportunity for discussion of the issues/benefits/best practice associated with developing and implementing data management plans. The day also provided researchers with a unique opportunity for networking with experts in the area of data management.

Speakers for the day included Martin Donnelly, Senior Institutional Support Officer, Digital Curation Centre, UK; Joe Doyle, Intellectual Property Manager with Enterprise Ireland; Dr Jonathan Tedds, Senior Research Fellow; Director: Health and Research Data Informatics & Astronomer, University of Leicester; David O’Connell, Director of Research Support Services, University College Cork; Brian Clayton, Research Cloud Manager, University College Cork; Peter Mooney, Senior Research Fellow, Department of Computer Science, Maynooth University and IT Specialist at the Environmental Protection Agency (EPA) Ireland; Evelyn Flanagan, lead data manager, Clinical Research Facility, University College Cork.

Research data management – institutional needs, targets and training

The second day of ‘Open access and research data management: Horizon 2020 and beyond’ was aimed at institutional support staff who can provide infrastructure and support to researchers engaging with research data management. Research data management can be described as the active management and appraisal of data over the lifecycle of scholarly and scientific interest. The audience for day 2 was composed of a wide range of support staff including librarians, IT services, research support staff and research project managers from around Ireland. Many of the speakers came from the UK where the policies of the UK research funders (RCUK) require researchers to engage with research data management to fulfil the requirements of their grants. In Ireland, the open data pilot in Horizon 2020 is the first signal that research performing institutions here will have to address research data management in the coming years. John FitzGerald, University Librarian and Head of Information Services gave the opening remarks mentioning how research data management will ‘challenge us as professionals with broadly curatorial problems’ as we seek to ‘manage the ecosystem in which data exists’. He reflected on how Claude Shannon applied George Boole’s algebra to solve the signalling of electromechanical circuits which kick-started the revolution of the modern digital era. Speakers for the day included Martin Donnelly, Senior Institutional Support Officer, Digital Curation Centre, UK; Stuart MacDonald, Research Data Management Service Co-ordinator, University of Edinburgh; David McElroy, Research Services Librarian, University of East London; Jonathan Greer, Research Information Manager, Queens University Belfast; Gareth Cole, Research Data Manager, Loughborough University; Julia Barrett, Research Services Manager, UCD Library; Louise Farragher, Information Specialist, Health Research Board; Dermot Frost, Manager of the Research IT group, Trinity College Dublin. The speakers gave their own perspectives and outlined experiences with developing services, infrastructure and training for research data management at their institutions. All talks provided invaluable insights for any one broaching this area in the future and all speakers were agreed on the cross-campus collaboration required to develop research data management initiatives.
Current Open Calls

PROGRAMME DETAILS

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<td>Horizon 2020 - Europe as a global actor</td>
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<td>Horizon 2020 - New forms of Innovation</td>
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<td>Horizon 2020 - Reflective societies: cultural heritage and European identities</td>
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<td>Horizon 2020 - Blue Growth: Unlocking the potential of Seas and Oceans</td>
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<td>SFI Investigators Programme 2015</td>
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<td>US/Ireland R&amp;D Partnership Programme</td>
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Visit this link for more information on the above:
http://www.ucc.ie/en/research/funding/finding_funding/open_calls/