



7th Annual Translational Medicine Conference

City Hotel, Derry/Londonderry,

Northern Ireland 26th - 27th October 2015

'Big Data and Data Analytics in Precision Medicine'

TMED7 will focus on "Big Data and Data Analytics in Precision Medicine" and will bring together international delegates from academia, business and the clinical sector to explore opportunities and challenges in healthcare.

Celebrating its seventh successful year, the event is recognised as a leading international conference in translational medicine and healthcare innovation. Over 200 international delegates including clinicians, academics and businesses from USA, UK, Ireland, mainland Europe and Asia attended in 2014 and the conference continues to grow in stature each year.

Our annual TMED Conference is now a signature event for the sector across the whole island of Ireland.

The Conference will explore the challenges and opportunities that have been created through the development of new technologies and approaches which enable a more personalised approach to medicine and healthcare.

The conference targets academics, clinicians, researchers and bio-industry R&D managers, with the aim of encouraging collaboration and communication, and to inform research and clinical interventions.

Day 1 Monday 26th October

- 1:00 pm Registration**
- 2:00 pm Professor Paddy Nixon, Vice-Chancellor, Ulster University, NI**
Welcome and Opening Address
Chaired by Prof Hugh McKenna, Pro-Vice-Chancellor (Research and Innovation), Ulster University
- 2:15 pm Professor John Gallacher, School of Medicine, Cardiff University, UK**
"The MRC Dementias Platform UK and its relevance for mental health"
- 2:35 pm Dr Danilo Mandic, Faculty of Engineering, Department of Electrical and Electronic Engineering, Imperial College London, UK**
"Complexity Science for 24/7 Continuous Physiological Monitoring"
- 2:55 pm Dr Richard Phelps, Senior Lecturer and Honorary Consultant, MRC Centre for Inflammation Research, University of Edinburgh, UK**
"Patient utilisation of an on-line EPR: insights from analysis of Renal Patient View records"
- 3:15 pm Q&A**
- 3:25 pm Break for Tea/Coffee - Poster Viewing Session**
Chaired by Prof Girijesh Prasad, Professor of Intelligent Systems, Ulster University
- 3:50 pm Professor Asim Roy, Computer Science Department, Arizona State University, USA**
"Identifying a small set of genes from gene expression data to predict individual cancer types and/or its treatment"
- 4:10 pm Professor Jose (Chema) Pena, Computer Science School, University of Madrid, Spain**
"Intelligent Data Analysis in Computational Neuroscience: From Structure to Cognition to Simulation"
- 4:30pm Q&A**

Oral Presentations

	Algorithms & Remote Monitoring <i>Chaired by Dr David Brownlee HSC Innovations</i>	Interventions & Omics <i>Chaired by Dr Paul Beaney, Ulster University</i>
4.40 pm	Dr Huiru Zheng <i>KeepWell: A Generic Platform to Support the Self-management of Chronic Conditions</i>	Andrew English <i>The effect of GLP-1 receptor knockout and GLP-1 receptor agonist treatment on the expression of appetite and insulin signalling-associated genes in brain</i>
4.55 pm	Dr Cesar Navarro <i>Building a symptom checker for remote monitoring</i>	Sarah-Jayne Mackin <i>Refining clinically relevant gene targets through a pipeline analysis of human 450k methylation data and wet-lab validation</i>
5.10 pm	Richard Gault <i>Using phenomenological models of tinnitus to bridge the gaps within neural imaging data</i>	Andrew Parton <i>Computational Modelling of Atherosclerosis</i>
5.25 pm	Andrew Cairns <i>Interactive computerised approach to guide human interpretation of the 12-lead electrocardiogram</i>	Alistair Quinn <i>Understanding barriers to clinical adoption of Point-of-Care Testing (POCT)</i>
5.40 pm	Joanne Given <i>Tele-Mum: a comparison of telemedicine and face-to-face management decisions in diabetic pregnancy</i>	Dr Haiying Wang <i>Integrating omics data for identifying subtypes of glioblastoma multiforme with a multiplex network-based approach</i>
5.55 pm	Alan Kennedy <i>Assessing the performance of current generation automated diagnostic algorithms for healthcare sensor systems</i>	
6.10 pm	Q&A	Q&A

- 6.25 pm Close**
- 7.00 pm Drinks Reception/ Poster Viewing Session**
Pre Dinner Address Councillor Elisha McCallion, Mayor of Derry City and Strabane District Council
Post Dinner Address Gerard Guckian, Chairman, Western Health and Social Care Trust

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Conference Programme Continued...

Day 2 Tuesday 27th October

8:30 am Registration

Chaired By

Dr Maurice O'Kane, Director R & D, Western Health and Social Care Trust

9.00 am John McKinley, Chief Executive Officer, Precision Medicine Catapult, UK
"The Role of the PMC and Delivering Industry Translation"

9.20 am Dr Christine McNamee, Network Manager, Pharmacogenetics & Stratified Medicine Network, UK
"The UK Pharmacogenetics and Stratified Medicine Network - Linking the multidisciplinary partners of the Precision Medicine community"

9.40 am Dr Stephen Lee, Biosciences Team Manager, Devices Division, MHRA, UK
"Companion Diagnostics and the IVD Regulations"

10.00 am Q&A

10.15 am Break for Tea/Coffee - Poster Viewing Session

Chaired by TBC

Chaired by

Prof Tony Bjourson, Director NICSM, Ulster University

10.45am Dr Fabio Mangiacapra, Clinical and Interventional Cardiologist, Campus Bio-Medico University Hospital, Italy
"The hard task of translating promising results into clinical benefit: the case for platelet function testing"

Dr Ferath Kherif, Vice-Director LREN, CHUV, Switzerland
"The Medical Informatics Platform of the Human Brain Project"

11.05am Professor Costantino Pitzalis, Professor of Experimental Medicine and Rheumatology, Barts Health NHS Trust, UK
"Maximising Therapeutic Utility for Rheumatoid Arthritis using genetic and genomic tissue responses to stratify medicines (MATURA Consortium)"

Professor Nikola Kasabov, Director Knowledge Engineering and Discovery Research Institute, FDCT Auckland University of Technology, New Zealand
"Brain-like neurocomputation in Bio- and Neuroinformatics: From big data to personalised medicine."

11.25am Dr Loic Lhuillier, Programme Manager, Stratified Medicine, Innovate UK

Chris Roche, Chief Executive Officer, Aridhia, UK "Stratified Medicine Scotland: powered by AnalytiXagility, open for business".

11.45 am Q&A

Q&A

12.00pm Break for Lunch - Poster Viewing Session

1.00 - 2.30 Breakout Session

Chaired by

Dave Clarke, Asystec Ltd
Accessing large Datasets

Chaired by

Aeidin McCarter, Derry City and Strabane District Council
Methods of Funding

1.00pm Brian Perkins, Senior Development Manager, SAIL Databank, Swansea University Medical School, UK
"Building data platforms to support research, evaluation & commerce"

Ian Murphy, Director of Growth & Scaling, InvestNI
"Entrepreneurship - The Secret Ingredient"

1.15pm Siobhan Morgan, Statistician / Sandy Fitzpatrick, Head of Information and Registration Unit, BSO, NI
"HSCNI Honest Broker Service"

Joel Ferguson, KTP Adviser (NI), Innovate UK "Knowledge Transfer Partnerships: Funding Innovation through Knowledge Transfer"

1.30pm Dr Danny Kerr, Lecturer, School of Health Sciences, Ulster University, NI

John Farrell, Assistant Director, Healthcare Transformation, DHSSPS, NI
"Maximising Impact with Europe"

1.45pm Dr Maria Loane, Lecturer in Public Health, Institute of Nursing and Health Research, Ulster University, NI
"Are two datasets better than one? Experience from European studies"

Dr Shirley Davey, EU Thematic Lead Connected Health, H2020, NICP, NI
"Horizon 2020 - 2016 and Beyond"

2.00pm Dr KongFatt Wong-Lin, Lecturer, Neural Systems and Neuro-Technology Team, Ulster University, NI
"Computational neurology: Merging computational neuroscience with mental health analytics"

Patricia McCrory, EU Thematic Lead Health, H2020, NICP, NI
"Horizon 2020 funding for health, demographic change and wellbeing: 2016/17 priorities"

2.15pm Stephen Lusty, Director, JAG'L Consulting, Belfast, NI

2.30pm Q&A

Q&A

3.00pm Break for Tea/Coffee - Poster Viewing Session

Chaired by

Dr Kevin Curran, Reader, Ulster University

Chaired by

Barry Henderson, Business Development Director (Life Sciences), Invest NI

3.30pm Dr Fergus Caskey, Renal Consultant, North Bristol NHS Trust, UK
"Reducing (not just reporting) variation in patient outcomes: the UK Renal Registry"

Dr Beverley Shields, Senior Lecturer in Medical Statistics, University of Exeter, UK
"Big data and its use in the MASTERMIND study"

3.50pm Dr David Trainor, Founder and Principal, Sentireal, NI
"Combining Mobile Devices and Data Analytics to Deliver Personalised Healthcare"

Joel McComb, CEO, BioSpyder, California, USA
"BioSpyder - Transcriptomics and European Partnerships"

4.10pm Dr Sean Ennis, Co-founder and CSO of Genomics Medicine Ireland (GMI) "Building a population database to power precision medicine and care"

Dr John Fox, CEO, Merrion Pharmaceuticals, Dublin, Ireland
"The Virtual Pancreas in the Treatment of Diabetes: Development and Regulatory Aspects"

4.30pm Q&A

Q&A

4.45pm Closing Remarks & Prizegiving

5.00pm Close