



## 9th Annual Translational Medicine Conference

City Hotel, Derry/Londonderry,

Northern Ireland 12th - 13th September 2018

### “Innovating to Live Well for Longer”

Here in Northern Ireland and globally we are witnessing an increase in population size. One of the main drivers of such growth is improved disease prevention and improved diagnostics leading to early recognition and treatment. With an increasingly aging society comes an increasing demand on healthcare, an increased number of patients with long term medical conditions (LTMC), an increasingly complex patient cohort with multiple co-morbidities and uncertain clinical outcomes. The combination of these factors makes clinical decision more challenging. Invariably the elderly and those with long term medical conditions with complex co-morbidities are excluded or under-represented in large scale randomised clinical trials (RCT). Therefore the optimal treatment strategy for these patients remain unknown.

In reality the results of these large RCT are extrapolated and treatment offered to the same elderly and LTMC patients with multi-morbidity who were initially excluded. Ultimately it is unclear whether this strategy improves clinical outcomes for these highly complex patients. Urgent work is needed to improve clinical decision making in this group since these patients are the greatest demand on the healthcare system with the greatest health economic cost. Furthermore, given the paucity of information on how best to treat the elderly and those with LTMC,

there is a need to adopt a Personalised Medicine approach to improve outcomes for this group of patients. More than ever there is a need to combine the expertise of academia, clinicians, business and data scientists to improve healthcare for the aging population and patients with long term medical conditions using a panomic approach to create biological signatures assisted by augmented intelligence. This year TMED9 will focus on “Innovating to Live Well for Longer” and will also provide an update on the Centre for Personalised Medicine, Clinical Decision Making and Patient Safety. Local and international expertise drawn from academia, business, clinical and data analytics will combine at TMED9 to network and explore ways to improve diagnostics and personalised medicine.

Celebrating its ninth successful year, the event is recognised as a leading international conference in translational medicine and healthcare innovation, previously drawing clinicians, academics and businesses from UK, Ireland, Europe and the USA.

TMED continues to target 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 ONE - WEDNESDAY 12TH SEPTEMBER 2018

8:30 am Registration - Tea/Coffee

9.15am Welcome and Opening Address *Dr Aaron Peace*  
CEO, Clinical Translational Research & Innovation Centre (C-TRIC)

#### SESSION 1: AGING POPULATION

Chair: *Dr Stephen Todd, Consultant Geriatrician, Altnagelvin Hospital, NI*

9.30am “Medicines Optimisation in the Aging Population”  
*Prof Michael Scott, Director, Medicines Optimisation Centre (MOIC), NI*

9.45am “Personalised Medicine Approach in Neurodegenerative Diseases”, *Dr Paul Edison, Clinical Senior Lecturer, Division of Brain Sciences, Imperial College London, Visiting Professor, Cardiff University, Wales & Consultant Physician, Hammersmith Hospital, London, UK*

10.00am “NWRC Centre of Design and Innovation for Assisted Living - Aging in Place”, *Ms Geraldine Lavery, Head of School of Health & Social Care, NWRC, NI*

10.15am “Healthcare of the Future” *James Norman, Healthcare CIO - EMEA, Dell EMC | Global Alliances/Verticals Group (EMEA Healthcare), UK*

Panel Discussion / Questions & Answers

11.00am Tea/Coffee Networking/Moderated Poster Viewing

#### SESSION 2: GENOMICS & INFLAMMATION

Chair: *Prof Tony Bjorson, Prof of Genetics, NI Centre for Stratified Medicine, Ulster University/PI, Centre for Personalised Medicine, Clinical Decision Making and Patient Safety, NI*

11.15am “An Introduction to the Genomics of Autoimmune Disease”, *Dr Anthony Ryan, Senior Scientist, Genomics Medicine Ireland, ROI*

11.30am “Inflammation as a Key to the Comorbidity between Depression and Cardiovascular Disease”, *Dr Golam Khandaker, Wellcome Trust Research Fellow & Consultant Psychiatrist, University of Cambridge, UK*

11.45am “DESIREE - Decision Support System for Breast Cancer”, *Dr Ivan Macia, Department Director e-Health & Biomedical Applications, Vicomtech, San Sebastian, Europe*

12 noon “Troponin and the Evolution of Cardiac Biomarkers”, *Dr Paul Collinson, Consultant Chemical Pathologist, Professor of Cardiovascular Biomarkers Clinical Blood Sciences, St George’s University Hospitals, London, UK*

Panel Discussion / Questions & Answers

#### SESSION 3: NETWORKING EVENT / LUNCH

1.00pm Conference Photo / Enjoy a stroll to the City’s beautiful Guildhall

1.15pm “#LegenDerry lunch” to be held in the City’s Guildhall and hosted by Visit Derry, featuring the very finest local produce accompanied by a range of locally brewed craft beers

Sponsored By



2.45pm Return to City Hotel

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## Conference Programme Continued...

### Day 1 Wednesday 12th September 2018

#### SESSION 4: ACADEMIC AND RESEARCHER PRESENTATIONS

**Chair:** *Dr Aaron Peace, Consultant Cardiologist/Director of Research & Development, Western Health & Social Care Trust / CEO, Clinical Translational Research & Innovation Centre (C-TRIC)*

**3.00pm** "Robust source-based MEG functional connectivity approach to identifying neuromarker of mild cognitive impairment" *Dr Jose Sanchez Bornot, Researcher in Computational Neuroimaging in Dementia, School of Computing, Engineering and Intelligent Systems, Ulster University*

**3.15pm** "Extensive Plasma Biomarker Analysis in Patients with Acute Myocardial Infarction" *Dr Victoria McGilligan, Lecturer in Stratified Medicine (Inflammatory Disease - Cardiovascular focus), Northern Ireland Centre for Stratified Medicine, Ulster University*

**3.30pm** "Feasibility of remote monitoring of rheumatoid arthritis and development of a new blood sampling device - Report from the Rheumatoid Arthritis Disease Activity monitor (RADAR) study" *Dr David Gibson, Lecturer in Stratified Medicine (Inflammatory Disease - Rheumatoid Arthritis focus), Northern Ireland Centre for Stratified Medicine, Ulster University*

Panel Discussion / Questions & Answers

#### SESSION 5: A PERSONALISED APPROACH

**Chair:** *Dr Maurice O'Kane, Consultant Chemical Pathologist, Western Health & Social Care Trust / Director, NI Clinical Research Network, NI*

**4.15pm** "Creating Learning Systems for Health and Disease"; *Dr Calum MacRae, Vice Chair, Scientific Innovation, Department of Medicine, Brigham and Women's Hospital, Associate Professor, Harvard Medical School, USA*

**4.30pm** "AI-assisted biomarker analysis for oncology"; *Dr Gregory Tobin, COO/Co-Founder, Lantern Pharma, Dallas, USA (TBC)*

**4.45pm** "Glaucoma- How best to Approach the Treatment of the Leading Cause of Irreversible Blindness in a Rapidly Expanding Aging Population"; *Dr Meredith Gregory Ksander PhD, Associate Scientist, Schepens Eye Research Institute, Massachusetts Eye and Ear / Assistant Professor, Department of Ophthalmology, Harvard Medical School, USA*

Panel Discussion / Questions & Answers

**6.15pm** Drinks Reception / Moderated Poster Viewing

**7.00pm** Conference Dinner - Guest Speakers  
*Introduction: Mayor - Derry City & Strabane District Council - Cllr John Boyle (TBC) Dr Anne Kilgallen, Chief Executive, Western Health & Social Care Trust / Prof Paddy Nixon, Vice-Chancellor, Ulster University (TBC)*

### Day 2 Thursday 13th September 2018

**8:30 am** Registration - Tea/Coffee

#### SESSION 6: CENTRE FOR PERSONALISED MEDICINE, CLINICAL DECISION MAKING & PATIENT SAFETY

**Chair:** TBC

**9.00am** CPM Launch

#### SESSION 7: HEALTHCARE INFORMATICS

**Chair:** *Prof Liam Maguire, Executive Dean of the Faculty of Computing, Engineering and the Built Environment, Ulster University, NI*

**10.00am** "Wireless Technology Considerations in Healthcare"; *Dr Stephen Seawright, Centre Manager, WiSAR Technology Gateway, LYIT, ROI*

**10.15am** "Proficiency Based Progression Simulation Training in Medicine and Healthcare"; *Prof Anthony Gallagher, Professor of Technology Enhanced Learning, Director of Research, University College Cork (UCC), ROI*

**10.30am** "AI for Understanding Interventional Imaging and Activity"; *Dr Danail Stoyanov, Associate Professor, Dept of Computer Science, University College London, UK*

Panel Discussion / Questions & Answers

**11.15am** Tea/Coffee/Networking

#### SESSION 8: INNOVATING FOR THE FUTURE OF PRIMARY CARE DELIVERY IN NORTHERN IRELAND

**Chair:** *Chair: Mr Mark Lee, Director of Primary Care, Department of Health, NI*

**11.30am** "Educational Innovation to Sustain Primary Care for the Future in Northern Ireland"; *Prof Louise Dubras, Dean of Medical School, Ulster University, NI*

**11.45am** "Health Economic Evaluation in Primary Care"; *Prof Paddy Gillespie, Director, Health Economics and Policy Analysis Centre (HEPAC), NUI Galway, ROI*

**12 noon** "Delivering Clinical Excellence through Computer Assisted Technology"; *Dr Julian Brown, Norfolk Primary Care Trust, UK*

Panel Discussion / Questions & Answers

**12.40pm** Results of PhD & Early Researchers Presentations / Closing Remarks *Dr Aaron Peace, CEO, Clinical Translational Research & Innovation Centre (C-TRIC)*

**1.00pm** Buffet Lunch