

Insigneo Newsletter - September 2019

Welcome to our monthly Insigneo newsletter!

Our monthly e-newsletter keeps you up to date with events, funding, success stories and information. We hope you will find it useful! If you would like to add information and/or events to this newsletter please email: news@insigneo.org (the newsletter will be issued during the 2nd week of the month, excluding January and August). Please ensure that you submit news and events with a minimum of one week's notice.

Register for the Insigneo General Assembly

GENERAL ASSEMBLY 2019

Monday, 23 September 2019, 12:00 - 14:00
Workroom 4, 38 Mappin Street, S1 4DT



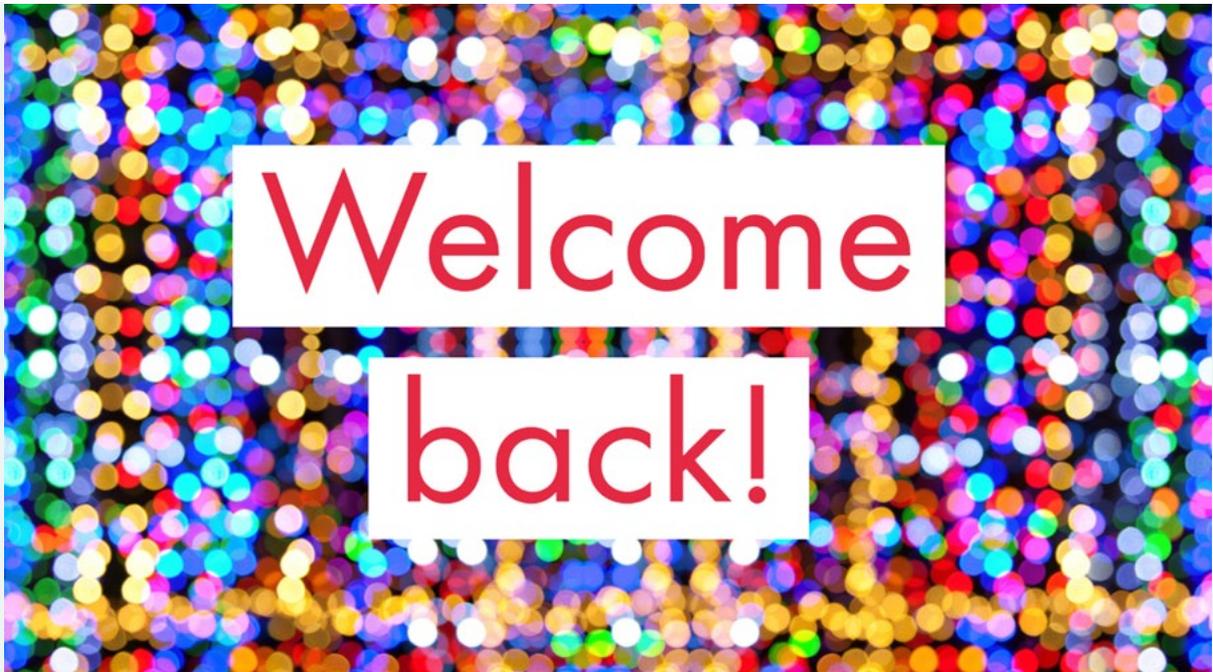
The 8th General Assembly of the Insigneo Institute will be held 12:00 – 14:00, Monday 23 September 2019, in Workroom 4 at 38 Mappin Street.

A buffet lunch will be provided so please make sure you register and let us know any dietary requirements to allow us to organise catering.

Every member is invited to attend, as well as anyone from the University of Sheffield or the Sheffield Teaching Hospitals who is interested.

[Register](#)

Welcome back to Professor Richard Clayton and Dr Paul Morris



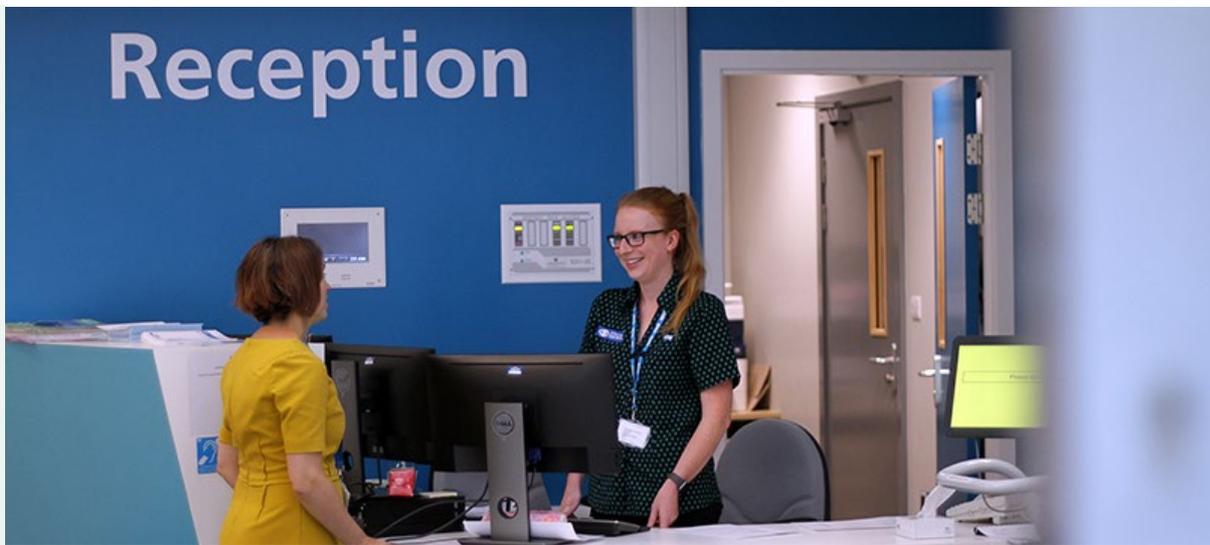
Two board members who have been on sabbatical will be re-joining the board from September 2019: Professor Richard Clayton (Professor of Computational Physiology) and Dr Paul Morris (Senior Clinical Lecturer in Cardiology).

Richard will act as Director of Training in replacement of Dr Gwen Reilly, who has decided to step down to fully focus on her role as a Faculty Director for Equality Diversity and Inclusion. Gwen's role has been instrumental to the kick off of Insigneo's training activities, especially in the setting up of the very successful summer research programme for undergraduate students.

Paul Morris will return as Director of Clinical Translation, a role which has been covered by Dr Rebecca Gosling in the past year. Rebecca has done a great job in her role and has been of great support in this transition phase.

Both Gwen and Rebecca will remain on the board until the completion of a smooth handover.

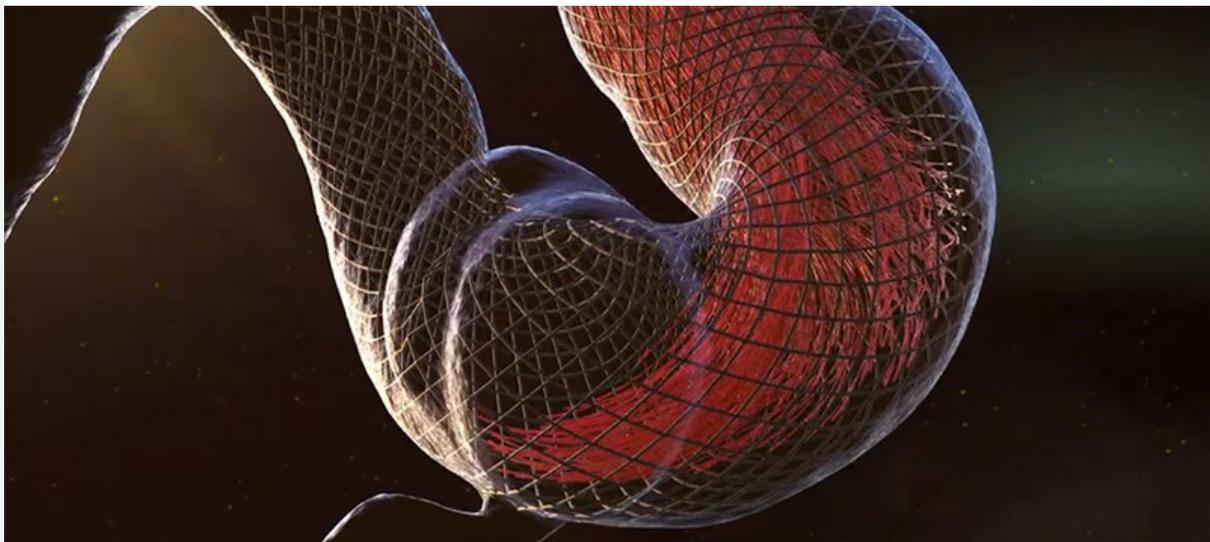
Health Foundation award £67K to Sheffield Teaching Hospitals to build digital road map of outpatient care



We are pleased to announce a new project with Sheffield Teaching Hospitals NHS Foundation Trust which has been awarded £67,000 from the Health Foundation's Advancing Applied Analytics programme to develop innovative new software which could transform NHS outpatient care.

[Read more](#)

The effect of aneurysm treatment on cerebral blood flow: an illustrative video powered by patient-specific modelling



At this year's LINNC (Live Interventional Neuroradiology & Neurosurgery Course), which took place 3-5 June at the Louvre, Paris, Medtronic showcased a 3D video based on the research of Dr Alberto Marzo from the Insigneo Institute for *in silico* Medicine which explores the effect of deploying a flow diverter stent on blood flow in a patient-specific model.

[Read more](#)

Marie Skłodowska-Curie Fellowships



We are delighted to announce that Insigneo has two Post Doctoral Fellowships sponsored by the 2018 Marie Skłodowska-Curie Actions (MSCA) and COFUND calls. Congratulations and welcome to Deepak Unune and Marco Palanca

[Read more](#)

Congratulations to our recent graduates!



Well done to all our recent PhD graduates for their hard work, determination and contribution to the Insigneo Institute: Zena Wally, Sachin Ramanatha, Ivan Benemerito and Sara Oliviero. Also, well done to Erica Montefiori on passing her viva this week

[Read more](#)

LG Global Challenger expedition programme visit



On 21 August 2019, Insigneo Director of Operations, Dr Andrew Narracott from the University of Sheffield's Department of Infection, Immunity & Cardiovascular Disease, welcomed four students from the Korea Advanced Institute of Science who visited the Insigneo Institute with the LG Global Challenger expedition programme. The group are participating in the programme under the topic of 'Digital twin development stage design in artificial organ customising' and approached Dr Narracott to find out more about the research being conducted at the Insigneo Institute to understand the human body using computer simulation software.

[Read more](#)

Guest Lectures, Conferences & Seminars

Insigneo Events

23 September 2019

[Insigneo General Assembly - have you registered?](#)

3 October 2019

[Insigneo Seminar: *in silico* trial for safety evaluation of a novel personalised high tibial osteotomy \(HTO\) treatment](#)

Other events

16 - 18 September 2019

[British Chapter of ISMRM Annual Meeting 2019, Sheffield](#)

16 September 2019

15th Bath Biomechanics Symposium, Bath

25 - 27 September 2019

CompBioMed Conference 2019, London

6 December 2019

10th Annual Mellanby Centre Research Day, Sheffield

24 - 28 February 2020

Advanced International School on imaging, modeling, and simulation in biomechanics and mechanobiology, Rome

For a full list of upcoming events visit: <http://insigneo.org/events/>

Vacancies

Software Application Developer

(closing date 16/09/19)

PhD opportunity: a stochastic finite-element model for predicting changes in bone strength

(closing date 22/09/19)

Research Software Engineer (RSE)

(closing date 04/10/19)

Publications

Research output affiliated to Insigneo in Scopus (please ensure papers are affiliated to the Insigneo Institute by including the words "Insigneo Institute for *in silico* Medicine"):

A novel bilayer polycaprolactone membrane for guided bone regeneration:

Combining electrospinning and emulsion templating (Materials) B. Aldemir Dikici, S. Dikici, G. C. Reilly, S. MacNeil, F. Claeysens

Resistance training combined with stretching increases tendon stiffness and is more effective than stretching alone in children with cerebral palsy: A

randomized controlled trial (Frontiers in Pediatrics) B. M. Kalkman, G. Holmes, L. Bar-On, C. N. Maganaris, G. J. Barton, A. Bass, D. M. Wright, R. Walton, T. D. O'Brien

Shear stress makes its mark on the endothelial genome (Cardiovascular Research) J. Serbanovic-Canic, C. Souilhol, P. C. Evans

IodiNe Subtraction mapping in the diagnosis of Pulmonary chronic thromboembolic disease (INSPIRE): Rationale and methodology of a cross-sectional observational diagnostic study (Contemporary Clinical Trials Communications) Y. Shahin, C. Johns, K. Karunasaagar, D. G. Kiely, A. J. Swift

Pair Matcher (PAM): Fast model-based optimization of treatment/case-control matches (Bioinformatics) E. Elhaik, D. M. Ryan

Immunometabolism and atherosclerosis: perspectives and clinical significance: a position paper from the Working Group on Atherosclerosis and Vascular Biology of the European Society of Cardiology (Cardiovascular Research) D. F. J. Ketelhuth, E. Lutgens, M. Bäck, C. J Binder, J. Van den Bossche, C. Daniel, I. E. Dumitriu, I. Hofer, P. Libby, L. O'Neill, C. Weber, P. C. Evans

The longitudinal effects of ovariectomy on the morphometric, densitometric and mechanical properties in the murine tibia: A comparison between two mouse strains (Bone) B. C. Roberts, M. Giorgi, S. Oliviero, N. Wang, M. Boudiffa, E. Dall'Ara

Letter to the editor regarding: Effects of cerebral palsy on Achilles tendon moment arm length – Do children with CP have larger or smaller moment arms than typically developing children? Commentary on: Alexander et al. (Journal of Biomechanics) B. M. Kalkman, C. N. Maganaris, L. Bar-Onde, T. D. O'Brien

Performance of QCT-Derived scapula finite element models in predicting local displacements using digital volume correlation (Journal of the Mechanical Behavior of Biomedical Materials) J. Kusins, N. Knowles, M. Ryan, E. Dall'Ara, L. Ferreira

Starters & Leavers

A warm welcome to:

Staff

Dr Deepak Unune - Marie Curie Researcher (Gwen Reilly)

Dr Marco Palanca - Marie Curie Researcher (Enrico Dall'Ara)

Visitors

Victor Serveau - Visiting from France as an intern (Claudia Mazzà)
Dr Alex Ireland - Visiting from Manchester University (Claudia Mazzà)

Goodbye and thank you to:

Freddie Greatrex - PhD Student (Claudia Mazzà)

Insigneo Institute
for *in silico* Medicine
F Floor- Room F19
The Pam Liversidge Building
Sir Frederick Mappin Building
The University of Sheffield
Mappin Street
Sheffield, S1 3JD

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