

## Insigneo Newsletter - March 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](mailto: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.

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### Call for abstracts Insigneo Showcase 2019



**Friday, 17 May 2019, Octagon Centre, Sheffield, UK**

**The event is free of charge. Please register by 17 April 2019.**

**The deadline for abstract submissions for our poster display and competition is 22 March 2019.** To submit an abstract you will need to register for the Insigneo Showcase, you will be asked if you wish to submit an abstract as part of this process.

The Insigneo Institute for *in silico* Medicine's Annual Showcase event is an opportunity for our members, funding agencies, regulatory agencies, industrial colleagues, and other academic groups in the UK and worldwide to meet once a year and see first-hand the latest innovations in personalised, predictive medicine produced by our Institute.

This year the morning session will be dedicated to our Early Career Researchers and we will invite a selection of researchers to give a short powerpitch during this session based on their abstract submission.

[Register](#)

## Yorkshire Cancer Research invests £1m in South Yorkshire research projects



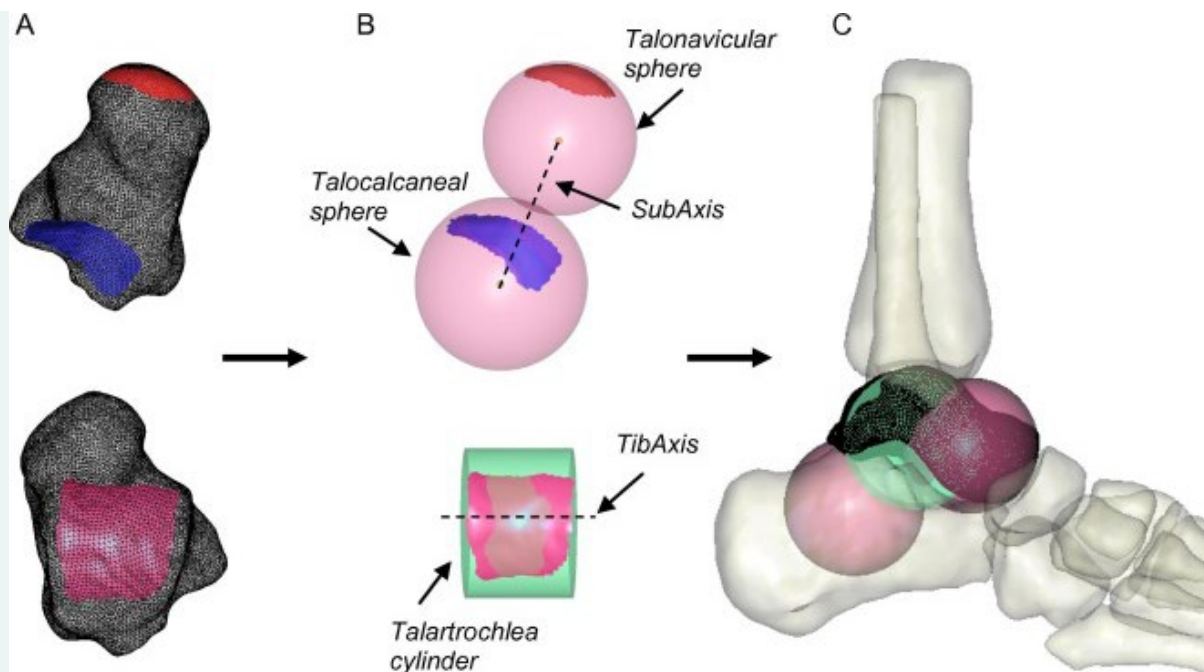
*Saving Yorkshire Lives*

Cutting-edge lung images will be tested to see if they can help doctors select the best treatment for their patients in a new research project announced on 5 March 2019 by Yorkshire Cancer Research.

Researchers, led by Professor Matthew Hatton at Sheffield Teaching Hospitals NHS Trust and Insigneo Members Professor Jim Wild and Dr Bilal Tahir at the University of Sheffield, will use the city's world-leading magnetic resonance imaging (MRI) centre to produce revolutionary pictures of cancer patients' lungs before they begin treatment.

[Read more](#)

## Image-based kinematic ankle models for children affected by juvenile idiopathic arthritis



Congratulations to Erica Montefiori, et al., whose paper will be one of the highlighted papers in the forthcoming edition of the Journal of Biomechanics (85C), and will appear on its home page.

This study, carried out as part of the MD-PAEDIGREE project, presents an innovative application for kinematic ankle models, used here to understand possible disease-specific gait patterns in children affected by Juvenile Idiopathic Arthritis.

[Read more](#)

**We are hiring – Director of Insigneo**



# Director of Insigneo

We are seeking to appoint an internationally renowned Chair to provide inspirational

academic leadership to Insigneo, Sheffield's multidisciplinary Institute for *in silico* Medicine.

The successful individual will develop the strategy for Insigneo, bringing together the expertise from its contributing members in Sheffield:

- Faculty of Engineering
- Faculty of Medicine, Dentistry and Health
- Faculty of Science
- Sheffield Teaching Hospitals NHS Foundation Trust

in collaboration with partners within the UK and internationally, to deliver world leading research and postgraduate education across a range of relevant disciplines.

[Read more](#)

## Join us! Membership open to PhD students and Research Associates



Membership of Insigneo is now open to academics, research associates & PhD students at The University of Sheffield and medical professionals at Sheffield Teaching Hospitals NHS Foundation Trust and Sheffield Children's NHS Foundation Trust.

We would like to give a warm welcome to our new Associate Members and encourage PhD students and Research Associates to join us. If your supervisor is an Insigneo Member then you are eligible to join our interdisciplinary *in silico* medicine research community as an Associate Member and we are developing a series of activities aimed at supporting your scientific and professional development



so please get in touch!

[Read more](#)

## Insigneo Post Doctoral Bridging Fund 2019

Insigneo has piloted a new scheme intended to provide up to three months funding for existing University of Sheffield post-doctoral researchers or PhD students approaching the end of their existing contract who are working areas of research of strategic interest to Insigneo. The bridging funding aims to assist the development of a career development fellowship application, new post, industrial collaboration or next career stage.

All proposals were evaluated by three independent reviewers nominated by the Board of Directors and two were selected. We would like to congratulate Vee Cheong and Freddie Greatrex on their successful applications for this funding.

Professor Jim Wild, Insigneo's research director commented: "I was impressed by the very high quality of all the proposals. We are nurturing an impressive new generation of researchers."

## Former MultiSim Researcher Giuliano Lamberto's role in Corin



Giuliano Lamberto joined the Insigneo Institute as a PhD student under the supervision of Professor Claudia Mazzà in the Department of Mechanical

Engineering and also worked on the MultiSim project as a Research Associate. He is now working as a New Product Introduction (NPI) development engineer in the orthopaedic field for Corin, a medical device manufacturer based in Cirencester (UK). Here he talks about his new role and his time at the Insigneo Institute and MultiSim.

[Read more](#)

## Abhinav Paul Kongari presents at the Institution of Mechanical Engineers Speak Out for Engineering competition



Congratulations to Abhinav Paul Kongari, MSc student on our Computational Medicine course, who was the runner-up in the South Yorkshire heat of the Institution of Mechanical Engineers (IMechE) Speak Out for Engineering competition which took place on 9 February 2019 at Sheffield Hallam University.

[Read more](#)

## MultiSim researchers cycle along the silk road



We would like to wish Bart van Veen and Barbara Kalkman well on their journey cycling along the Silk Route. Bart van Veen, a MultiSim PhD student and Researcher, has recently passed his PhD viva and has set off to spend a year cycling along the Silk Road with fellow MultiSim researcher Barbara Kalkman. They have promised to keep a blog of their experience and plan to visit research groups at the universities they pass.

[Read more](#)

## Guest Lectures, Conferences & Seminars

### Insigneo Events

29 March 2019

[1st EPSRC MultiSim Interdisciplinary Workshop on Multiscale Modelling, Sheffield](#)

17 May 2019

[Insigneo Showcase 2019, Sheffield - open for registration!](#)

### Other events

22 March 2019

[2019 UK Cilia Network meeting, Sheffield](#)

8 April 2019

HPC@Sheffield annual research IT event, Sheffield

25 - 26 April 2019

CMAS 2019: 18th Annual Meeting of the Clinical Movement Analysis Society, Sheffield

10 - 12 June 2019

6th International Conference on Computational and Mathematical Biomedical Engineering, Sendai, Japan

10 - 14 June 2019

2019 VPH Summer School, Barcelona

16 - 20 June 2019

ISC high performance 2019, Frankfurt

7 - 10 July 2019

ESB 2019, Vienna

5 September 2019

General Assembly of the UK Chapter of the VPH Institute, London

25 - 27 September 2019

CompBioMed Conference 2019, London

6 December 2019

10th Annual Mellanby Centre Research Day, Sheffield – save the date!

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

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## Vacancies

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Director of Insigneo

(closing date: 22/03/19)

PhD opportunity: real world estimate of walking speed

(closing date: 25/03/19)

MRC Skills Development Fellowship

(closing date 01/04/19)

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## Publications

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Research output affiliated to Insigneo in Scopus:

**GATA4-Twist1 Signalling in Disturbed Flow-Induced Atherosclerosis**

(Cardiovascular Drugs and Therapy) M. Mahmoud, C. Souilhol, J. Serbanovic-Canic, P. Evans

**Enhanced Collagen Production from Human Dermal Fibroblasts on**

**Poly(glycerol sebacate)-methacrylate Scaffolds** (BMEiCON 2018 - 11th

Biomedical Engineering International Conference) J. Thanarak, H. Mohammed, S. Pashneh-Tala, F. Claeysens, N. Green

**Effect of sterilization processes on nanostructured Ti6Al4V surfaces obtained by electropolishing** (Journal of Materials Research) L. M. Antonini, C.D.F. Malfatti,

G. C. Reilly, R. Owen, A. S. Takimi

**Validation of a model-based inverse kinematics approach based on wearable inertial sensors** (Computer Methods in Biomechanics and Biomedical

Engineering) L. Tagliapietra, L. Modenese, E. Ceseracciu, C. Mazzà, M. Reggiani

**Analysis of bone architecture in rodents using micro-computed tomography** (Methods in molecular biology) R.J. van 't Hof, E. Dall'Ara

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## Starters & Leavers

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A warm welcome to:

### Members

Dr Miguel Juárez - Lecturer, School of Mathematics and Statistics (SoMaS)

Dr Bilal Tahir - Research Fellow, Department of Oncology & Metabolism

Dr Dennis Wang - Lecturer in Bioinformatics and Genomic Medicine, Department of Neuroscience

### Staff

Sarah Black - Insigneo PA/Administrative Officer

### Visitors

Alessandra Aldieri - visiting researcher of Enrico Dall'Ara and Pinaki Bhattacharya

### PhD Students

Melanie Jegu - supervised by Shannon Li

Thank you and goodbye to:

Bart van Veen - MultiSim Researcher

Barbara Kalkman - MultiSim Researcher

Sachin Ramanatha - Multisim Research Associate

Gianluca Ascolani - PDRA in Cell and Tissue Multiscale modelling

**Insigneo Institute**

**for *in silico* Medicine**

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Sir Frederick Mappin Building

The University of Sheffield

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Sheffield, S1 3JD

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