2ND INTERNATIONAL WORKSHOP ON THE EPIGENETICS OF OSTEOARTHRITIS

// 5 NOVEMBER 2018 - 6 NOVEMBER 2018 //

- Focus on the latest breakthroughs in the epigenetic analysis of OA
- Invited guest speakers
- Oral presentation and session moderation opportunities for early-career investigators
- Hear about recent discoveries
- Discuss your epigenetics research with friends and colleagues

@ The Science Gallery
Trinity College Dublin, Ireland

Read about the highly successful first workshop held in Amsterdam (Connective Tissue Research, Vol. 58)

For further information http://www.tinyurl.com/OAEpigenetics18-info

WORKSHOP ORGANISERS

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FURTHER INFORMATION AND WORKSHOP REGISTRATION

For further information, visit:

http://www.tinyurl.com/OAEpigene18-info

To register, visit:

http://www.tinyurl.com/OAEpigene18-book

ANY QUESTIONS?

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GUEST SPEAKERS

DR RODRIGO COUTINHO DE ALMEIDA
Universiteit Leiden

PROFESSOR RIK LORIES
KU Leuven

DR REGIS O’KEEFE
Washington University

DR LOUISE REYNARD
Newcastle University

DR SARAH RICE
Newcastle University

DR JENNIFER WESTENDORF
Mayo Clinic

PROFESSOR GERRY WILSON
University College Dublin
12:00-13:00
Registration

13:00-13:15
Welcome and opening of workshop

13:15-13:45
Epigenetic influences on the pathogenesis and outcome of rheumatoid arthritis

13:45-14:15
Epigenetic regulation of Wnt signalling

14:15-14:30
MicroRNA discovery in early knee osteoarthritis using next generation sequencing

14:30-14:45
Evidence for alternative polyadenylation of the ADAMTS5 mRNA creating a heterogenous pool of transcripts that differ in their response to post transcriptional cues

14:45-15:00
Bromodomain inhibitors are potent epigenetic regulators in osteoarthritis

15:00-15:30
Coffee break
15:30 - 16:10
miRNA - mRNA sequencing data integration
Rodrigo Coutinho de Almeida

16:10 - 16:25
Bridging multi-omic time series data and dynamic modelling
Krutik Patel

16:25 - 16:55
Hdac3 in cartilage development and osteoarthritis
Jennifer Westendorf

16:55 - 17:10
Mice with cartilage-specific deficiency in histone methyltransferase DOT1L exhibit increased susceptibility to osteoarthritis
Astrid De Roover

17:10 - 17:25
Increased expression of CCN4/WISP1 in osteoarthritic articular cartilage is epigenetically regulated and disrupts cartilage homeostasis
Ritchie Timmermans

17:25 - 17:40
The role of microRNAs in osteoarthritis and ageing-related functional decline in joint tissue homeostasis
Kasia Goljanek-Whysal

17:40 - 17:55
Investigating the role of CCCTC-binding factor in osteoarthritis pathogenesis
Ayten Hijazi

18:00 - 22:00
Reception and dinner

09:00 - 09:30
The role of articular chondrocyte epigenetics and metabolism in osteoarthritis
Regis O'Keefe

09:30 - 09:45
MicroRNA-34A: role in the development of osteoarthritis during obesity
Helal Endisha

09:45 - 10:00
8-oxoG:OGG1 repair pathway alters inflammatory signature in C2C12 myoblasts in vitro
Jekaterina Kumiscia

10:00 - 10:15
Can the ketogenic diet mimic the beneficial effects of Trichostatin A, a histone deacetylase inhibitor, on osteoarthritis?
Maura Strigini

10:15 - 10:30
Mechanosensitive miR clusters regulated by anabolic and catabolic loading of human cartilage
Nicole Hecht

Moderator: Ayten Hijazi
Meta-analysis of the cartilage DNA methylome reveals OA-associated methylation changes are enriched in chondrogenic enhancers

MicroRNA 27b-3p: role in extracellular matrix regulation in osteoarthritis synovial fibroblasts

The ribosomal RNA pseudo-uridylase Dyskerin is decreased by inflammatory mediators in articular chondrocytes

Small RNA Sequencing reveals extracellular vesicle small non-coding RNA communication between synoviocytes and chondrocytes

Underlying molecular mechanisms of FN1 in osteoarthritis

Moderator: Ellie Parker

Summing up

Function and regulation of miR-140 in skeletal development

Conclusions

Coffee and departure

With thanks to