

4th Annual MarketsandMarkets Epigenetics Congress

3rd & 4th October 2019 London, UK

Event Overview

While most of the molecular studies focus over mutational analysis, epigenetics-is the only science which is gaining momentum with its cheaper and faster technology, by making its way to the clinic. Moving on the path of clinical epigenetics, our **4th Annual MarketsandMarkets Epigenetics Congress** will discuss the solutions to challenges like, drug discovery, identification of molecular inhibitors, gene modification and analysis.

The conference is scheduled on **3rd & 4th October 2019, London-UK**, which is one of the unique platform to witness epigenetics based clinical development and combinational therapies, with a special emphasis on transcriptional analysis and molecular profiling.

Who Should Attend?

Heads, Directors, Group Leaders, Professors, Lecturers, Research Associates, Scientists, Investigators, Fellows, Readers from Pharmaceutical, Bio-pharmaceutical and Research

Institutes working in:

- ✓ Epigenetics
- ✓ Developmental Epigenetics
- ✓ Epidemiology
- ✓ Molecular Biology
- ✓ Developmental Biology
- ✓ Biological Sciences
- ✓ Biochemistry
- ✓ Medicinal Chemistry
- ✓ Pharmaceutical chemistry
- ✓ Genetics and Genomics
- ✓ Developmental Genetics
- ✓ Translational sciences/medicines

Key Highlights

- **Epigenetic modification**
- **Genomic profiling**
- **Transcriptional mechanism**
- **Molecular inhibitors**
- **Epigenetic modulators**
- **Clinical applications of epigenetics**

For more information please contact

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Advisory Panel

- **Frank J. Dekker**, Associate Professor Pharmaceutical Epigenetics, **University of Groningen, Netherlands**
- **Rémi Terranova**, Senior Investigator I, **Novartis Institute of Biomedical Research, Switzerland**
- **Rene Bartz**, Manager Development Products, **4SC, Germany**

Speaker Panel

- **Frank J. Dekker**, Associate Professor Pharmaceutical Epigenetics, **University of Groningen, Netherlands**
- **Inma Rioja**, Senior Director & Portfolio Research Lead at Epigenetics DPU, **GSK, UK**
- **Rémi Terranova**, Senior Investigator I, **Novartis Institute of Biomedical Research, Switzerland**
- **Rene Bartz**, Manager Development Products, **4SC, Germany**
- **Alfredo Budillon**, Chief Experimental Pharmacology Unit Department of Research, **Istituto Nazionale Tumori, Italy**
- **Magnus Ivarsson**, VP, Head of Discovery, **Rodin Therapeutics, USA**
- **Wouter De Jonge**, Professor, **NARCIS, Netherlands**
- **Christopher Schofield**, Head, Organic Chemistry, **University of Oxford, UK**
- **Mikhail Spivakov**, Group leader and Honorary Senior Lecturer, MRC London Institute of Medical Sciences, **Imperial College, UK**
- **Nathaniel I. Martin**, Professor, Biological Chemistry, **University of Sylvius, Netherlands**
- **Marcus Buschbeck**, Group Leader, **Josep Carreras Leukaemia Institute, Spain**
- **Gavin Reynolds**, Professor Emeritus, **Queen's University Belfast, UK**
- **Manfred Jung**, Professor, Pharmaceutical Chemistry, **University of Freiburg, Germany**
- **Ronan Murphy**, Associate Editor, Clinical Epigenetic, **Dublin City University, Ireland**
- **Panagis Filippakopoulos**, Associate Professor Structural Genomics Consortium, **University of Oxford, UK**
- **Tamara Maes**, Chief Scientific Officer, **Oryzon, Spain**

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DAY 1, Thursday, 3rd October 2019

08:00 Registration

08:55 Welcome note from MarketsandMarkets

09:00 Opening Remarks from the Chairman

DEVELOPMENT OF EPIGENETICS

09:10 Evolutionary consequences of epigenetic inheritance

09:35 Advancements in genomic profiling and epigenetic modifications

10:00 Solution Provider Presentation

10:30 *Morning Refreshments | Poster Presentations | One-to-One Networking*

11:20 Methodology viz sequencing to study epigenetic modifications of DNA

11:45 Transcriptional and epigenetic mechanisms for autoimmune disorders

TRANSLATIONAL EPIGENETICS

12:10 **Linking non-coding disease-associated variants with target genes using promoter Capture Hi-C**
Marcus Buschbeck, Group Leader, **Josep Carreras Leukaemia Institute, Spain**

12:35 Presentation by Covaris

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13:05 *Lunch | Poster Presentations | One-to-One Networking*

14:05 Panel Discussion: Comparison of old traditional approach to inhibitor specific method

14:30 **HDACs as potential drug targets in airway inflammation**

- Class I selective HDAC inhibitors inhibit airway inflammation
- Role of HDACs in NF- κ B signaling
- Design of novel HDAC inhibitors

Frank J. Dekker, Associate Professor Pharmaceutical Epigenetics, **University of Groningen, Netherlands**

14:55 **Importance of miRNAs and epigenetics in hematological disorders**

Rémi Terranova, Senior Investigator I, **Novartis Institute of Biomedical Research, Switzerland**

15:20 Solution Provider Presentation

15:50 *Evening Refreshments | Poster Presentations | One-to-One Networking*

16:40 **Inhibitors of reversible lysine acetylation and methylation**

- Inhibitors of NAD dependent lysine deacetylases (Sirtuins)
- Inhibitors of methyl lysine binding proteins (epigenetic readers)
- Pro- and softdrugs of epigenetic inhibitors

Manfred Jung, Professor, Pharmaceutical Chemistry, **University of Freiburg, Germany**

17:05 Use of epigenetics in target identification of drugs

17:30 Analyzing the potential of immunoepigenetic modulators

17:55 Closing Remarks by the Chair

18:00 End of Day 1

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DAY 2, Friday, 4th October 2019

08:15 Registration

08:55 Welcome note from MarketsandMarkets

09:00 Opening Remarks from the Chairman

CLINICAL EPIGENETICS

09:10 Epigenetic therapy in immune-oncology

09:35 **DNA methylation as an epigenetic factor in psychiatric disorders and their treatment**
Gavin Reynolds, Professor Emeritus, **Queen's University Belfast, UK**

10:00 Solution Provider Presentation

10:30 *Morning Refreshments | Poster Presentations | One-to-One Networking*

11:40 **Combinational therapies to improve efficacy of inhibitors for cancer treatment**

12:05 **Challenges in targeting histone demethylases**

- The JmjC histone demethylases have emerged as promising cancer targets
- Developing potent and selective inhibitors is challenging
- Structural and biochemical knowledge can be applied in JmjC inhibitor development

Christopher Schofield, Head of Organic Chemistry, **University of Oxford, UK**

12:30 Solution Provider Presentation

13:00 *Lunch | Poster Presentations | One-to-One Networking*

14:00 **Panel Discussion: Dual inhibitor vs LSD**

14:25 **Development of novel therapeutic anticancer approach with HDAC inhibitors: from the bench to the bedside**

- Examples of mechanistic interaction between HDAC inhibitors and conventional therapeutics
- Cancer stem cell targeting by HDAC inhibitors
- Innovative clinical trials with HDAC inhibitors

Alfredo Budillon, Chief Experimental Pharmacology Unit Department of Research, **Istituto Nazionale Tumori, Italy**

14:50 **Role of epigenetics in brain tumors**

15:15 *Evening Refreshments | Poster Presentations*

15:45 **Incorporation of epigenetics in a risk assessment framework**

16:10 **Epigenetic biomarkers role in treatment of cancer**

16:35 **Epigenetic biomarker screening for combination therapy**

17:00 End of Conference

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