

Nanotechnology in Cancer: Engineering for Oncology Programme

Cambridge, UK

12 - 14 September 2019



Scientific Programme

Thursday 12th September 2019

- 12:00 REGISTRATION
- 12:30 WELCOME LUNCH
- 13:30 CONFERENCE WELCOME
Kostas Kostarelos (SPC Chair)
- SESSION 1: EFFECTIVE TRANSPORT OF SIRNA, MRNA, CRISPR-CAS9
Chair: Kostas Kostarelos
- 13:35 THE EMBO KEYNOTE LECTURE
René Bernards
NKI, Netherlands
"A one-two punch model for cancer therapy"
- 14:20 **Michelle Bradbury**
MSKCC, USA
- 14:50 **Proffered Paper 1**
Selected from abstracts
- 15:05 EXHIBITOR INTRODUCTIONS
60-second intro pitches by each company
- 15:15 COFFEE BREAK & TRADE
- 15:45 **Olivia Merkel**
LMU, Germany
"Correlating quantitative tumor accumulation and gene knockdown using SPECT/CT in ovarian cancer"
- 16:15 **Twan Lammers**
University Hospital Aachen, Germany
"Smart cancer nanomedicine"
- 16:45 **Proffered Paper 2**
Selected from abstracts
- 17:00 **Marianne Ashford**
AstraZeneca, UK
"Developing nanomedicines to enable innovative cancer therapy"
- 17:30 POSTER SPOTLIGHTS
4 top abstracts presented as 3 minute flash talks
- 17:45 NETWORKING RECEPTION
including drinks and light food
- 18:15 POSTER DISCUSSION SESSION 1 & TRADE EXHIBITION
Until 19:45

Friday 13th September 2019

SESSION 2: DETECTION AND TREATMENT OF EARLY STAGE DISEASE

Chair: Caroline Dive

09:00 KEYNOTE LECTURE

Mark Dewhirst

Duke Cancer Institute, USA

"Development of a thermolabile liposome for highly selective and enhanced drug delivery - a bench to bedside story"

09:45 **Cristianne Rijcken**

Cristal Therapeutics, the Netherlands

"CriPec® platform and lead product CPC634: principles, nonclinical evaluation and clinical translation"

10:15 **Proffered Paper 3**

Selected from abstracts

10:30 **Proffered Paper 4**

Selected from abstracts

10:45 COFFEE BREAK & TRADE

11:15 **Naomi Halas**

Rice University, USA

11:45 **Claire Wilhelm**

Paris Diderot University, France

"Application windows for magnetic hyperthermia, photothermia, and magneto-photo-thermia with magnetic and plasmonic nanoparticles, in cancer treatment"

12:15 POSTER SPOTLIGHTS

4 top abstracts presented as 3 minute flash talks

12:30 INDUSTRY SYMPOSIUM

13:00 LUNCH

13:45 POSTER DISCUSSION SESSION 2

SESSION 3: EXOSOMES, PROTEINS & NUCLEIC ACID MARKERS

Chair: Claire Wilhelm

15:15 KEYNOTE LECTURE

Molly Stevens

Imperial College London, UK

"New materials and bioengineering strategies for cancer"

16:00 **Caroline Dive**

CRUK Manchester Institute, UK

"Liquid biopsies for early detection of lung cancer - nanotechnologists help required!"

16:30 **Proffered Paper 5**

Selected from abstracts

16:45 COFFEE BREAK & TRADE

17:15 **Proffered Paper 6**

Selected from abstracts

- 17:30 Kostas Kostarelos
University of Manchester, UK
- 18:00 **Raymond Schiffelers**
UMC Utrecht, Netherlands
"Delivery of RNA: synthetic nanomedicines versus extracellular vesicles"
- 19:30 **CONFERENCE DINNER**
Churchill College Dining Hall
Free tickets are available to all participants.

Saturday 14th September 2019

- 09:00 **MEET THE EXPERTS**
A chance to ask your questions to a panel of invited speakers. There will be a particular focus on issues of gender in science and career development.
SESSION 4: MORE EFFECTIVE, TARGETED IMMUNOTHERAPY
Chair: Raymond Schiffelers
- 09:30 **Ronit Satchi-Fainaro**
Tel Aviv University, Israel
"Dendritic cell-targeted nano-vaccines sensitize melanoma to immune checkpoint modulators"
- 10:00 **Proffered Paper 7**
Selected from abstracts
- 10:15 **Rakesh Dixit**
MedImmune, USA
"Safety and pharmacokinetic challenges to the development of nanomedicines"
- 10:45 **COFFEE BREAK & TRADE**
- 11:15 **Proffered Paper 8**
Selected from abstracts
- 11:30 **Speaker to be confirmed**
- 12:00 **KEYNOTE LECTURE**
David Mooney
Harvard University, USA
- 12:45 **SUMMARY & AWARDS**
Scientific Programme Committee
- 13:00 **LUNCH & DEPART**