

11th European and Global Summit for Clinical Nanomedicine, Targeted Delivery and Precision Medicine The Building Blocks to Personalized Medicine

Conference and Exhibition — September 2 - 5, 2018

PROGRAMME APRIL 2018

Ongoing Submission of Talks and Posters

(For oral presentations until May 31, for poster presentations until July 8)

Summit under the Auspices of the Swiss Confederation
in Collaboration with 32 Organizations:



CLINAM Foundation

The goal of the CLINAM Foundation is to contribute to the benefit of patients and society by exploring and translating leading edge technologies towards clinical application, with an emphasis on nanomedicine, targeted medicine, precision medicine and personalization. The summit keeps its tradition to build bridges from the enabling technologies to clinical application for major and neglected diseases. There is broad support for this summit by many collaborating institutions.

Summit Venue

Congress Center Basel
Messeplatz 21
CH-4058 Basel
Switzerland
Phone +41 58 206 28 28
info@congress.ch

Registration Office

Viva Management GmbH
Kramgasse 16
CH-3011 Bern
Switzerland
Phone +41 31 311 74 34
clinam@viva-management.ch

Organizers Office

European Foundation for
Clinical Nanomedicine
Alemannengasse 12
CH-4058 Basel, Switzerland
Phone +41 61 695 93 95
clinam@clinam.org



Scientific Committee

- Prof. Dr. med. Patrick Hunziker, University Hospital Basel (CH) (chairman)
- Prof. Dr. Lajos Balogh, North Andover, Massachusetts (USA)
- Prof. Dr. Gerd Binnig, Nobel Laureate, Munich (D)
- Prof. Dr. Yechezkel Barenholz, Hebrew University, Hadassah Medical School, Jerusalem (IL)
- Prof. Dr. med. Omid Farokhzad, Director, Center for Nanomedicine, Harvard Medical School and Brigham and Women's Hospital, Boston, Massachusetts (USA)
- Prof. Dr. Twan Lammers, Experimental Molecular Imaging, RWTH Aachen (D)
- Prof. Dr. med. Dong Soo Lee, PhD., Chair, Department of Nuclear Medicine, Seoul National University, Seoul (KOR)
- Dr. med. h.c. Beat Löffler, MA, CEO, CLINAM-Foundation, Basel (CH) (contents / programme)
- Prof. Dr. med. Marisa Papaluca Amati, European Medicines Agency, London (UK)
- Prof. Dr. Gert Storm, Institute for Pharmaceutical Sciences, Utrecht University (NL)
- Prof. Dr. Viola Vogel, Laboratory of Applied Mechanobiology, ETH Zürich (CH)

Introduction

The CLINAM Summit is a globally unique event that brings together all stakeholders in nanomedicine, targeted medicine and precision medicine. It builds on the principle that fundamental scientists, developers and professionals in clinical application and all to nanomedicine related persons can mutually learn from each other to find better solutions for the medicine of the future. Based on recent groundbreaking achievements, the meeting will be a highlight that will explore the pathways to personalized medicine in diagnosis, therapy and development of materials and tools for the discipline. CLINAM is also the initiative to become every year an international highlight meeting forum for interdisciplinary fields of cutting edge medicine. CLINAM will welcome again the participants from the community of nanomedicine, targeted drug delivery and precision medicine and bringing together the pioneers and worldwide opinion leaders, not only to learn and discuss but also to develop new ideas, create new collaborative projects and shape the future of medicine. Senior scientists enlighten young researchers with their long experience and expertise. The summit has more than 500 participants from more than 35 countries that make use of the role of the CLINAM Foundation as the nonprofit service provider for novel nanomedicine, targeted delivery and precision medicine. CLINAM BASEL welcomes you and wishes you three days of great science, great contacts and high level wellbeing with cultural elements in the evenings.

Target Audience

The faculty includes the pioneers and opinion leaders in the fields of medicine, nanoscience and targeted medicine, who share experience in an interdisciplinary and interactive manner that widens mutual understanding for both sides. The summit and the exhibition are aimed at physicians, as well as nonscientists with a background in pharmacology, biology, physics, chemistry, biophysics, medicine materials science and engineering. The meeting is a particularly useful source of knowledge for the targeted medicine and delivery community. The conference is also of interest for members of the regulatory authorities as well as policymakers, experts from industry in the field of life sciences, developers of new tools and materials for nanomedicine, and all those investigating the potential of emerging technologies in the field of healthcare. Experts from venture companies can acquire knowledge on existing and upcoming developments and novel products in the emerging field of Nanomedicine and knowledge based medicine. Government authorities can profit from the regulator's international sessions. CLINAM is the worldwide melting pot for experts and a high-level communication platform where you meet those striving for equal the development in all fields of renewing medicine.

Sun Sept. 2	All events on 2 nd Floor, Hall Osaka/Samarkand. The Sunday of this Summit is reserved for official and unofficial gatherings.				
12.00	Special Lecture for Young Researchers and Students				
15.30	General Assembly of the European Society for Nanomedicine				
16.45	General Assembly of the International Society for Nanomedicine				
18.00	Editorial Board Meeting, CLINAM Journal of Nanomedicine				
19.45	First Meeting for all Speakers: Dinner at the Swissôtel Le Plaza, 1st Floor, Hall Helvetia				
Mon Sept. 3	Hall Montreal	Hall Sydney	Hall Singapore	Hall Rio	Hall Osaka/Samarkand
08.00	Welcome Coffee				
08.30	1. Opening Addresses				
09.00	2. Scientific Introduction to CLINAM 11/2018: Nanomedicine in the Precision Principles to Personalization of Medicine, Prof. Dr. med Patrick Hunziker				
09.15	3. Activation of Innate Immunity: Toll-like Receptors and other Receptors of the Innate Immune System, Prof. Dr. Jules Hoffmann				
10.05	Break				
10.35	4. Linking the Global Threat of Resistance to Parasitic and Infectious Diseases and Ribosomes: Next Generation of Antibiotics and Antiparasites, Prof. Dr. Ada Yonath				
11.30	5. Topic 2018: The Scope of Precision Medicine				
13.15	Lunch				
14.15	6. Polymeric Materials for Cancer Therapy	7. Small Speeches on submitted Posters and University Village Posters	8. Understanding of the Mechanisms of Nano Interacting with Life	9. Publishing, Dissemination and Market Size in Nanomedicine	Satellite 1 11. Education, Workforce and Regulatory Matters in Novel Nano- and Precision Drugs
15.00				10. Nanomaterial Risk Profiling	
16.00	Break				
16.30	12. Nanomedicine and Precision Medicine – Going to the Future				
19.00	End of Day 1				
19.45	Meeting in front of the Congress Center, Tram to Dinner 20.00 CLINAM Brokerage Dinner with Cultural Events and CLINAM Nano Award 2018 at Landgasthof Riehen				
Tue Sept. 4	Hall Montreal	Hall Sydney	Hall Singapore	Hall Rio	Hall Osaka/Samarkand
08.00	Welcome Coffee				
08.20	13. Overcoming Barriers – Pharmaceutical Development and Manufacturing (APV Session)	14. Nano-Immunotherapy	15. Extracellular Vesicles in Nanomedicine – Exosomes	16. Clinical Experience with NBCDs and their Follow-On Versions: Are we Closer to Regulatory Alignment?	Satellite 2 17.1. Sizing of Nanoparticles: From Regulatory and Metrology Aspects to Application and Analysis – Joint Workshop, Part 1
10.20	Break				
10.50	18. • Cancer Vaccination and Redefining Cancer: From Papillomavirus Discovery to Cancer Vaccination, Prof. Dr. med. Dr. h.c. mult. Harald zur Hausen • Redefining Cancer with Integrative Tumor Immunology: Novel Cutting Edge Immunotherapies for Patients, Prof. Dr. Jerome Galon				
13.00	Lunch				
14.00	20. Diagnostic and Theranostic Concepts for Personalized Cancer Immunotherapy	21. Nanomedicine in Infection and Inflammation	22. Targeting and Drug Delivery in Nanomedicine and Precision Medicine	23. Novel Approaches in Material Sciences and Smart Materials in Nanomedicine	Satellite 3 19. Closed Session Reg. Authorities 13.00 Mexico, 13.45 Osaka 17.2. Continuation of Satellite 2 Workshop Part 2
16.00	Break				
16.30	24. The Regulatory Authorities' Voice 2018				
18.00	25. Ethical Matters				
18.50	End of Day 2				
19.40	Speakers meeting in front of the revolving doors of the Congress Center and leave for the Speaker's Dinner at Merian-Spitz (20.00)				
Wed Sept. 5	Hall Montreal	Hall Sydney	Hall Singapore	Hall Rio	Hall Osaka/Samarkand
08.00	Welcome Coffee				
08.20					
08.30	26. Cardiology and Atherosclerosis Nanomedicine	27. Clinical Imaging in Precision Medicine	28. New Findings and Procedures for Clinical Therapy in Cancer Nanomedicine	29. Computational Modelling, Virtual Patient in affordable Precision Medicine	Satellite 4 30.1. Swiss Excellence in Science: SAMS / SPHN Workshop on Personalized Health Part 1
09.40	Break				
10.10	31. New Aspects of Physics in Nanomedicine Relating to Clinic	32. Degenerative Diseases Nanomedicine	33. Regenerative Medicine and Biomedical Engineering	34. EU-NCL European Nanomedicine Characterization Lab – Lessons learned	30.2. Continuation of Session Part 2
11.30	35. New Nano-pharmacological Concepts for the Treatment of Cancer				
12.40	Lunch / Awarding Poster Prizes				
13.45	36. Preclinical Studies and Ongoing Clinical Trials	37. Rare and Neglected Diseases	38. Safety of Nanomedicine by Design and Testing for Toxicity	39. Applications for Nanomedicine and Precision Medicine	30.3. Continuation of Session Part 3
15.00	Break				
15.30	40. Nanomedicine and Targeted Delivery – Late Breaking and ongoing Trials				
17.25	Closing Words				
17.30	End of CLINAM 11/2018				
18.00	Meeting in front of the Congress Center, leaving for a light Farewell Dinner at Brauerei (18.15)				

Programme

Sunday, September 2, 2018

All Sunday-Events on 2nd Floor, Hall Osaka/Samarkand. The Sunday of this Summit is reserved for official and unofficial gatherings.

- 12.00 [Special Lecture for Young Researchers and Students](#)
- 15.30 **General Assembly of the European Society for Nanomedicine**
- 16.45 **General Assembly of the International Society for Nanomedicine**
- 18.00 **Editorial Board Meeting, CLINAM Journal of Nanomedicine**
- 19.45 [First Meeting for all Speakers: Dinner at the Swissôtel Le Plaza***** on the 1st Floor, Hall Helvetia](#)

Monday, September 3, 2018

Section 1: Plenary Session

- Monday, Hall Montreal
- Plenary Chair **1. Opening**
[Dr. med. h.c. Beat Löffler, MA, CEO, European Foundation for Clinical Nanomedicine, Basel \(CH\)](#)
- 08.30 [Opening Address from the European Foundation for Clinical Nanomedicine](#)
[Dr. med. h.c. Beat Löffler, MA, CEO, European Foundation for Clinical Nanomedicine, Basel \(CH\)](#)
- 08.36 [Opening Address from the European Commission](#)
Member of European Commission
- 08.42 [Opening Address from the Canton of Basel-Stadt](#)
Member of the Executive Council of the Canton of Basel-Stadt
- 08.48 [Opening Address from the Swiss Government](#)
[Dr. Gregor Haefliger](#), Vice Director, Head of National Research and Innovation Division, State Secretariat for Education, Research and Innovation SERI, Bern (CH)
- Monday, Hall Montreal
- Plenary Chair **2. Scientific Introduction to CLINAM 11 / 2018**
[Prof. Dr. med. Simo Schwartz, Jr., Ph.D.](#), Director Molecular Biology and Biochemistry, Research Center for Nanomedicine (CIBBIM-Nanomedicine) University Hospital Vall d'Hebron and Vall d'Hebron Institut de Recerca (VHIR), Barcelona and President of the European Society for Nanomedicine, Basel (CH) / Barcelona (E)
- [About](#) The Foundation keeps pace with the development: Nanomedicine as crucial interdisciplinary field is growing and gets in line with other fields to realize the rapid development of precision medicine. Nanomedicine is seen together with the field of genomics as a pacemaker towards the personalization of medicine.
- 09.00 [Nanomedicine in the Precision Principles to Personalization of Medicine](#)
[Prof. Dr. med. Patrick Hunziker](#), President of the International Society for Nanomedicine, Basel (CH)

- Monday, Hall Montreal
Opening keynote lecture 1
- Plenary Chair **3. Activation of Innate Immunity**
Dr. Joy Wolfram, Faculty, Mayo Clinic, Jacksonville, Florida (USA); Affiliate Faculty, Houston Methodist Research Institute, Houston, Texas (USA)
- About** Toll-like receptors -mediated activation of innate immunity controls not only host defense against pathogens but also immune disorders. The discoverer concerning the activation of innate immunity will explain how our defense system works.
- 09.15 **Toll-like Receptors and other Receptors of the Innate Immune System**
Prof. Dr. Jules Hoffmann, Nobel Laureate, Institut d'Études Avancées de l'Université de Strasbourg, Strasbourg (F)
- 09.55 **Questions and Debate**
- 10.05 **Break**
- Monday, Hall Montreal
Opening keynote lecture 2
- Plenary Chair **4. Linking the Global Threat of Resistance to Parasitic and Infectious Diseases and Ribosomes**
Prof. Dr. Yechezkel Barenholz, Hebrew University, Hadassah Medical School, Jerusalem (IL)
- About** The current global escalation to resistance to parasitic infectious diseases and ribosomes is a serious threat. It seems that the world is going towards a post-antibiotic era, in which common infections and minor injuries treated in best way for decades could become fatal again. What will be the next generation antibiotics and antiparasites?
- 10.35 **Next Generation of Antibiotics and Antiparasites**
Prof. Dr. Ada Yonath, Nobel Laureate, Weizmann Institute of Science - Structural Biology Department Rehovot (IL)
- 11.15 **Questions and Debate**
- Monday, Hall Montreal
- Plenary Chair **5. Topic 2018: The Scope of Precision Medicine** (15' including 3' Questions & Debate)
Prof. Dr. Yechezkel Barenholz, Hebrew University, Hadassah Medical School, Jerusalem (IL)
- About** Researchers and clinicians have observed during centuries inter-individual variations in clinical characteristics and therapy responses in patients. The huge importance of precision medicine has been realized only in recent years. The approach toward prevention and treatment of disease by development of diagnostics and therapies delivering maximum effectiveness implies many disciplines. Nanomedicine has a substantial importance. The session will address different approaches to the field.
- 11.30 **The Various Faces of Precision Medicine**
Prof. Patrick Hunziker, President of the International Society for Nanomedicine, Basel (CH)
- 11.45 **Unmet Needs in Developing Nanoparticles for Precision Medicine**
Prof. Dr. med. Simo Schwartz, Jr., Ph.D, Director Molecular Biology and Biochemistry, Research Center for Nanomedicine (CIBBIM-Nanomedicine), University Hospital Vall d'Hebron and Vall d'Hebron Institut de Recerca (VHIR), Barcelona and President of the European Society for Nanomedicine, Basel (CH) / Barcelona (E)

- 12.00 **Precision Therapy Based on a Molecular Platform for RNAi Therapeutics**
Prof. Dr. Dan Peer, Chair, Tel Aviv University Cancer Biology Research Center, Director, Center for Translational Medicine, Director, Laboratory of Precision NanoMedicine, Dept. of Cell Research & Immunology, and Dept. of Materials Science & Engineering, Tel Aviv University, Tel-Aviv IL)
- 12.15 **The Importance of Precision for Controlling Assembly and Targeting of Nanomedicines**
Dr. Heinrich Haas, Vice President Drug Delivery, BioNTech RNA Pharmaceuticals GmbH, Mainz (D)
- 12.30 **Precision Medicine in the Clinic – State of the Art**
Prof. Dr. med. Ido Wolf, Head, Oncology Division, Tel Aviv Medical Center, Tel Aviv (IL)
- 12.45 **Virtual Self as the Basis of Truly Personalized Therapy and Prevention**
Prof. Dr. Hans Lehrach, Director, Head Department of Vertebrate Genomics, Max Planck Institute for Molecular Genetics, Berlin (D)
- 13.00 **Precision Medicine in the Treatment of Breast Cancer of Relating Treatments to Mutation**
Dr. med. Daniela Katz, Head of Breast and Sarcoma Services at Assaf Harofeh Medical Center, Tel Aviv-Yafo (IL)
- 13.15 **Lunch**

Section 2: 4 Parallel Sessions

Monday, Hall Montreal

Parallel 1 **6. Polymeric Materials for Cancer Therapy** (15' including 3' Questions & Debate)

Session in collaboration with the German Research Foundation (DFG) established "Collaborative Research Center on Nanodimensional Polymer Therapeutics for Tumor Therapy" (CRC 1066), Johannes Gutenberg University, Mainz (D)

Chair **Prof. Dr. Rudolf Zentel**, Institute of Organic Chemistry, University of Mainz (D) and **Prof. Dr. Twan Lammers**, Experimental Molecular Imaging, RWTH Aachen (D)

About Polymeric materials are extensively employed in cancer therapy. This session, which is organized by the CRC/SFB 1066, exemplifies the breadth and the potential of polymers and polymeric drug delivery systems for diverse therapeutic applications.

14.15 **Is there more than Tumor Targeting? Nanoparticles and the Immune System**
Prof. Dr. Rudolf Zentel, Institute of Organic Chemistry, University of Mainz (D)

14.30 **Self-Assembled Supramolecular Polymeric Nanosystems for Smart Diagnosis and Targeted Therapy of Intractable Diseases**
Prof. Dr. Kazunori Kataoka, Director General, Innovation Center of NanoMedicine, Kawasaki Institute of Industrial Promotion, Professor at Policy Alternatives Research Institute, University of Tokyo, Tokyo (J)

14.55 **Polypept(o)ids: Novel Materials for Drug and Nucleic Acid Delivery**
Dr. habil. Matthias Barz, Lecturer at Institute of Organic Chemistry, Johannes Gutenberg-University of Mainz (D)

15.10 **Engineering Innate and Adaptive Immunity with Polymeric Materials**
Prof. Dr. Bruno de Geest, Associate Professor, Department of Pharmaceutics, Ghent (B)

15.25 **Protein Nanocapsules for Targeting and Controlled Release of Drugs**
Prof Dr. Katharina Landfester, Director and Scientific Member, Max Planck Institute for Polymer Research, Mainz (D)

- 15.40 **Polymeric Materials for Biomedical Applications**
Prof. Dr. Ulrich S. Schubert, Laboratory of Organic and Macromolecular Chemistry, Jena Center for Soft Matter (JCSM), School of Chemistry and Earth Sciences of the Friedrich-Schiller-University Jena, Jena (D)
- 15.55 **Questions and Debate**
- 16.05 **Break**
- Monday, Hall Sydney
- Parallel 2 **7. Small Speeches on Submitted Posters and on University Village Posters 2018**
Chair **Dr. Sc. nat. Ruth Schmid**, Vice President Marketing, SINTEF Materials and Chemistry, Biotechnology and Nanomedicine, Polymer Particles and Surface Chemistry, Trondheim (N)
- About** Poster submitters, researchers and scientists at universities, participating in the University Village 2018 can apply for a small speech of 4 minutes, serving to highlight the research activities in nanotechnology / health. The speeches comprise a maximum of three slides. • Slide 1: General introduction to the topic future and outlook on translation of the work presented in a way that is accessible to the highly interdisciplinary audience. • Slide 2: Some of the highlights of submitter's work and institution's work. • Slide 3: The prove, how the work at the university / institute fits into the area of nanomedicine and targeted delivery including showing the future and outlook on translation of the work.
- 14.15 **Start of Presentations** (Separate Programme in Conference wallets)
- 16.00 **Break**
- Monday, Hall Singapore
- Parallel 3 **8. Understanding of the Mechanisms of Nano Interacting with Life** (15' including 3' Questions & Debate)
Chair **Prof. Dr. Kirsten Sandvig**, Centre for Cancer Biomedicine, Institute for Cancer Research, the Norwegian Radium Hospital, Oslo, University Hospital and University of Oslo, Oslo (N)
- About** This session aims to understanding of the mechanisms of nanomaterial interactions with living systems and the environment, across the entire life cycle of nanomaterials.
- 14.15 **The Behavior of Nanoparticles in Complex Environments**
Prof. Dr. Barbara Rothen-Rutishauser, Co-Chair Bio Nanomaterials, Adolphe Merkle Institute, University of Fribourg, Fribourg (CH) and
Prof. Dr. Alke Fink, Chair BioNanomaterials, Adolphe Merkle Institute, University of Fribourg, Fribourg (CH)
- 14.40 **Entry of Nanoparticles into Cells: Mechanisms and Consequences**
Prof. Dr. Kirsten Sandvig, Centre for Cancer Biomedicine, Institute for Cancer Research, Norwegian Radium Hospital, Oslo, University Hospital and University of Oslo, Oslo (N)
- 14.55 **Nanomaterial – Cell Interaction: a Mechanistic Perspective**
Dr. Peter Wick, Head Particles-Biology Interactions, EMPA - Swiss Federal Laboratories for Materials Science and Technology, St. Gallen, Lecturer D-BAUG, ETH Zürich (CH)
- 15.10 **Nanoparticles for Clinical Use: Importance of Degradation and Excretion**
Dr. Tore Skotland, Centre for Cancer Biomedicine, Institute for Cancer Research, Oslo University, Oslo (N)
- 15.25 **2 NNs**

16.00 **Break**

(4.1) Monday, Hall Rio (Session 9 and 10 without break in the same room)
Parallel 4 **9. Publishing, Dissemination and Market Size in Nanomedicine** (15' including 3' Questions & Debate)
Chair **NN**

About What are the ways for integrating attempts to shape the future of nanomedicine and precision medicine and what is the role of public networks and publishing? What is the economic impact in nanomedicine and are the reports telling the truth? Whereas nanomedicine is seen in the US and in China as THE developing market other continents see alternatives and use different nano-avoiding wording. How do we disseminate in best way "Nanomedicine" to lay public? Without acquiring knowledge in novel medical technology anxiety faces acceptance.

14.15 **Precision Nanomedicine and the Landscape of Nanomedicine Publications**
Prof. Dr. Lajos Balogh, North Andover, Massachusetts (USA)

14.30 **The Global Nanomedicine Market – Lasting?**
Dr. med. h.c. Beat Löffler, MA, CEO of the CLINAM-Foundation, Basel (CH)

14.45 **Dissemination for Lay Public in Nanomedicine and Precision Medicine**
Dr. Donald Bruce, Managing Director, Edinethics Ltd., Edinburgh (UK)

(4.2) Monday Hall Rio
Parallel 4 **10. Nanomaterial Risk Profiling**
Chair **NN**

About The application of nanotechnologies in healthcare holds groundbreaking potential for innovation but simultaneously bears certain challenges with respect to assessing efficacy, quality and safety. Within the concept of a "safe innovation approach" many questions regarding nanodrugs are still open. This session intends to show the implication of safety on all levels from finding to product in the market.

15.00 **3 NNs**

15.40 **Questions and Debate**

16.00 **Break**

Section 3: Satellite 1 - Education and Workforce in Medicine and Regulatory Matters

Monday, Hall Osaka
Satellite **11. Education, Workforce and Regulatory Matters in Novel Nano- and Precision Drugs**
Chair **Dr. med. Frank F. Weichold, Ph.D.**, Director of Critical Path and Regulatory Science Initiatives, Office of Regulatory Science & Innovation (ORSI) and Office of the Chief Scientist / Office of the Commissioner Food and Drug Administration (FDA), Silver Spring, MD (USA) (invited)

About Emerging technologies always need training of the users. But training alone is not sufficient to support translation of new technologies and approaches into approved therapeutics. In Nanomedicine and Precision Medicine we have critical need to provide trainees and current researchers and clinicians with educational opportunities in regulatory science, often defined as "the science of developing new tools, standards, and approaches to assess the safety, efficacy, quality and performance of regulated products."

An interdisciplinary team of speakers will highlight the challenges in drug discovery, clinical trial design, medical device innovation, data analytics, and other core competencies. This meeting is of crucial importance and of critical matter for the clinicians and researchers that are the drivers towards innovation to the benefit of the patient.

Speakers to the topics will be announced

- 14.15 **Regulatory Matters in Nano- and Precision Medicine**
- 14.30 **Multi-Stakeholder Ecosystems in Rapidly Changing Educational Environments**
- 14.45 **Education in Pharmaceutical Development / GMP Clinic**
- 15.00 **Questions and Debate**
- 16.00 **Break**

Section 4: Plenary Session

Monday, Hall Montreal

Plenary Chair **12. Nanomedicine and Precision Medicine – Going to the Future** (20' including 2' First Questions)
NN

About This session aims to give some glances into the recent revolutionary developments of medicine.

16.30 **Global Collaborations in Regulatory Science and Standards Development**
Dr. Anil Patri, Chair, Nanotechnology Task Force, Director, NCTR-ORA Nanotechnology Core Facility, U.S. Food and Drug Administration, National Center for Toxicological Research (NCTR), Jefferson, AR (USA)
First Questions

16.50 **Engineering Enhanced Adoptive Cell Therapies against Cancer**
Prof. Dr. Darrell J. Irvine, PhD, Professor, Departments of Biological Engineering and Materials Science & Engineering, Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology, Ragon Institute of MGH, MIT, and Harvard Investigator, Howard Hughes Medical Institute, Cambridge, MA (USA)
First Questions

17.10 **Long-acting Injectable Nanomedicines for Addressing Adherence Issues in Infectious Diseases**
Prof. Dr. Andrew Owen, PhD, FRSB, FBPhS, Professor of Pharmacology, Molecular and Clinical Pharmacology University of Liverpool (UK)
First Questions

17.30 **Revolutionary Research in Genetic Engineering: the Method for Destruction of Cancerous Cells**
Prof. Dr. Zelig Eshhar, Marshall and Renette Ezralow Professor of Chemical and Cellular Immunology, Board Member of the European Society of Gene Therapy, Weizmann Institute, Rehovot (IL)
First Questions

17.50 **NN**

18.10 **Precision Nanomedicine By Design: Clinical Approvals Based on CNDP Engineering**
Prof. Dr. Donald Tomalia, Distinguished Visiting Professor, Columbia University, NY, Affiliate Professor, Virginia Commonwealth University, Richmond, Adjunct Professor, University of Pennsylvania, Philadelphia, CEO & Founder NanoSynthons LLC National Dendrimer & Nanotechnology Center Mt. Pleasant, MI (USA)
First Questions

18.30 **Questions and Debate**

19.00 **End of Day 1 and Brokerage Dinner with Cultural Events**

19.45 **We meet in front of the Congress Center**

19.50 **Tramway leaving Messeplatz**

20.00 **CLINAM Brokerage Dinner with Cultural Event; CLINAM-Dwarf Award 2018 at Landgasthof Riehen**

Tuesday, September 4, 2018

Section 5: 4 Parallel Sessions

08.00 **Welcome Coffee**

Tuesday, Hall Montreal

Parallel 1 **13. Overcoming Barriers - Pharmaceutical Development & Manufacturing! (APV session)**

A Session in collaboration with the APV, Mainz

Chair **Dr. Bernd Riebesehl**, Principal Fellow, Novartis Pharma AG, Basel (CH)

About

The International Association for Pharmaceutical Technology (APV) will feature the industrial perspective on pharmaceutical development & manufacturing of nanomedicine and precision medicine.

08.20 **CART Manufacturing**

Dr. Alexander Huber, Global CMC Head & Director, Cell & Gene Therapy Unit, Novartis Pharma AG, Basel (CH)

08.35 **CriPec® Nanomedicines the Translational Path from Preclinical to Clinical Studies**

Dr. Cristianne JF Rijcken, PharmD PhD, Founder and CSO, Cristal Therapeutics, Maastricht (NL) **08.50**

Progressing the Development of AZD2811 Nanoparticle

Dr. Marianne Ashford, Ph.D., Principal Scientist Drug Targeting, Pharmaceutical Development AstraZeneca, Macclesfield, Cheshire (UK)

09.05 **Updates on the Development of Self-Assembling Bispecific Antibodies,**

Dr. Mark Chiu, Ph.D., Associate Director, Janssen Research & Development, Raritan, NJ (USA)

09.20 **2 NNs**

09.55 **Questions and Debate**

10.20 **Break**

08.00 **Welcome Coffee**

Tuesday, Hall Sydney

Parallel 2 **14. Nano-immunotherapy** (15' including 3' for first Questions after each talk)

A Session in Collaboration with the German Research Foundation (DFG) established "Collaborative Research Center on Nanodimensional Polymer Therapeutics for Tumor Therapy" organized by the CRC/SFB, Johannes Gutenberg University, Mainz (D)

Chair **Prof. Dr. med. Volker Mailänder**, Center for Translational Nanomedicine, University Medicine of the Johannes-Gutenberg University Mainz, Mainz (D) **and**

Prof. Dr. Twan Lammers, Experimental Molecular Imaging, RWTH Aachen, Aachen (D)

08.20 **Employing the Protein Corona to Address Dendritic Cells**

Prof. Dr. med. Volker Mailänder, Center for Translational Nanomedicine, University Medicine of the Johannes Gutenberg University Mainz, Mainz (D)

08.35 **Polymeric Nanogels for Antigen Delivery and Anticancer Vaccination Therapy**

Prof. Dr. ir. Wim Hennink, Head of Department, Pharmaceutical Sciences, Utrecht University, Utrecht (NL)

08.50 **Plant Virus Nanoparticles for In Situ Vaccination and Treatment of Metastatic Canc**

Prof. Dr. Nicole Steinmetz, Full Professor of NanoEngineering, University of California, San Diego, La Jolla, CA (USA).

- 09.05 **Targeting of Antigen Presenting Cells for Tumor Immunotherapy**
Prof. Dr. med. Stephan Grabbe, Director of the Department of Dermatology, Medical Center and Polyclinic, Speaker of the Research Center for Immunotherapy, Mainz (D)
- 09.20 **Engineering Immune-modulating Materials**
Prof. Dr. Darrell J. Irvine, PhD, Professor, Departments of Biological Engineering and Materials Science & Engineering, Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology, Ragon Institute of MGH, MIT, and Harvard Investigator, Howard Hughes Medical Institute, Cambridge, MA (USA)
- 09.50 **Engineering Nanoparticles for a Controlled Reduction of Intratumoral cAMP Level**
Prof. Dr. rer. nat. Tobias Bopp, Professor for Molecular Immunology, Institute for Immunology, Johannes Gutenberg University Mainz (D) **and**
PD Dr. Christian Becker, Department of Dermatology, Medical Center, Johannes Gutenberg University Mainz (D)
- 10.05 **Further Questions and Debate**
- 10.20 **Break**
- 08.00 **Welcome Coffee**
 Tuesday, Hall Singapore
- Parallel 3 **15. Extracellular Vesicles in Nanomedicine – Exosomes**
 Chair **Prof. Dr. med. Raymond Schiffelers**, Professor of Nanomedicine, Clinical Chemistry and Haematology, University Medical Center Utrecht UMCU, Utrecht (NL)
- About** Extracellular vesicles contain various biomolecules and mediate short- and long-distance intercellular communication in the body. Recent work has shown that extracellular vesicles can be engineered to display therapeutic properties. This session will cover new research in extracellular vesicles with respect to their applications in nanomedicine. Exosomes and other extracellular vehicles (EVs) have recently emerged as promising biological nanoparticles for drug delivery and diagnostics. Preclinical findings have already resulted in clinical trials with EVs applications such as immunotherapy. Moreover, the first exosome-based diagnostic test was recently marketed. Nevertheless, many challenges including large-scale clinical-grade manufacturing, characterization, potential immunogenicity, and storage need to be overcome in order to exploit the full potential of EVs for therapy and diagnosis. This session will identify major hurdles and promising areas of study for extracellular vesicles in nanomedicine.
- 08.20 **Exosomes and Naturally Occurring Vesicles**
Prof. Dr. med. Raymond Schiffelers, Professor of Nanomedicine, Clinical Chemistry and Haematology, University Medical Center Utrecht UMCU, Utrecht (NL)
- 08.30 **Engineered Extracellular Vesicles for Drug Delivery to the Brain**
Dr. Joy Wolfram, Faculty, Mayo Clinic, Jacksonville, Florida (USA); Affiliate Faculty, Houston Methodist Research Institute, Houston, Texas (USA)
- 08.40 **Nanostructure and the Formation Mechanism of Extracellular Vesicles (EVs) Studied by State-of-the-art cryo-SEM and cryo-TEM**
Prof. Dr. Yeshayahu (Ishi) Talmon, Ph.D, Prof. em. of Chemical Engineering, Department of Chemical Engineering and the Russell Berrie Nanotechnology Institute (RBNI), Technion-Israel Institute of Technology, Haifa (IL)

- 08.55 **From Basic Science Exosome Research to Listing on Stock Exchange – Two Journeys: Myocardial Ischemia and Wound Care**
Prof. Dr. Lee Chuen Neng, MBBS, MMed, FRCS (Glasgow), FRCS (Edinburgh), FRACS, FAMS
 (Cardiothoracic Surgery), Senior Consultant Department of Cardiac Thoracic and Vascular Surgery, Head, Department of Surgery, Yong Loo Lin School of Medicine, National University Heart Centre, National University of Singapore, Singapore (SGP)
- 09.10 **Exosome-Hydrogels as Machinery for Anti-inflammatory Therapeutics Synthesis**
Dr. Gregor Fuhrmann, Junior Research Group Leader, Helmholtz-Centre for Infection Research, Saarbrücken (D)
- 09.20 **The First Extracellular Vesicle-made Supported Lipid Bilayer Biosensor**
Sara Busatto, MSc., Ph.D. Student, Colloidal Clinical Chemistry Laboratory, University Brescia (I), visiting Pre-doctoral Student, Nanomedicine and Extracellular Vesicles Group at Mayo Clinic, Florida (USA)
- 09.30 **2 NNs**
- 09.50 **Questions and Debate**
- 10.20 **Break**
- 08.00 **Welcome Coffee**
 Tuesday, Hall Rio
- Parallel 4 **16. Global Clinical Experience with Non-Biological Complex Drugs (NBCDs) and their Follow-on Versions: Are we Closer to Regulatory Alignment?**
- Chair **Prof. Dr. Daan J. A. Crommelin**, Emeritus Professor at the Department of Pharmaceutics, Utrecht University (NL), Adjunct Professor at the Department of Pharmaceutics and Pharmaceutical Chemistry at the University of Utah (USA), Co-founder of Octoplus, Leiden (NL)
- About** Assessment of therapeutic equivalence of Non-Biological Complex Drugs (NBCDs) and their follow-on versions poses significant challenges to the scientific community. The family of NBCDs consists of products such as liposomes, glatiramoids, iron carbohydrate complexes and ocular emulsions. Regulatory agencies across the globe have approved follow-on versions of NBCDs based on different approaches. Some agencies have applied the generic drug approval paradigm, whilst others followed the biosimilar approach or a hybrid application route. As a consequence, the scope of studies required for marketing authorization of follow-on products depends on the countries where the product is planned to be launched. This regulatory uncertainty underlines the need for science-based evaluation criteria to ensure safe, effective and equivalent or similar follow-on versions of NBCDs. The questions to be answered in this session are: 1) What can we learn from recent experiences in this field, and 2) Which steps are being taken to globally align the regulatory processes?
- 08.20 **Dr. Katherine Tyner**, Associate Director for Science (acting), Office of Pharmaceutical Quality CDER/FDA, Springfield, IL (USA)
- Prof. Dr. med. Marisa Papaluca**, Senior Scientific Adviser, Scientific Committees Regulatory Science Strategy, European Medicine Agency (EMA), London (UK)
- Dr. Michael Johnston, PhD**, Research Scientist, Centre for Biologics Evaluation and Genetic Therapies Directorate, Health Canada, Ottawa (CND)
- Dr. Yuki Takechi-Haraya, Ph.D.**, Research Scientist, Division of Drugs, National Institute of Health Sciences, Kawasaki (JPN)
- Prof. Dr. Henning Blume**, Chairman of Steering Committee of the Network of Biopharmaceutics and Bioavailability of the European Federation for Pharmaceutical Sciences – EUFEPS and, SocraTec C&S GmbH, Oberursel (D)

Dr. Scott E. McNeil, Director, Nanotechnology Characterization Laboratory, National Cancer Institute
Vice President, Leidos Biomedical Research Inc., Frederick, MD (USA)
...and further Speakers

09.45 **Questions and Debate**

10.20 **Break**

Section 6: Satellite 2 - Workshop of the Nanomedicine Alliance, ETPN and the US National Characterization Lab

08.00 **Welcome Coffee**

Part 1 Tuesday, Hall Samarkand

08.20 **17. Sizing of Nanoparticles: From Regulatory and Metrology Aspects to Application and Analysis**

Chair **Dr. Scott E. McNeil**, Director, Nanotechnology Characterization Laboratory, National Cancer Institute,
Vice President, Leidos Biomedical Research Inc., Frederick, MD (USA)

About This session will focus on representatives from regulatory, government and industry view on the various aspects of particle sizing relating to nanomedicine/nanotechnology.

Dr. Scott E. McNeil, Director, Nanotechnology Characterization Laboratory, National Cancer Institute, Vice President, Leidos Biomedical Research Inc., Frederick, MD (USA) • **Prof. Dr. Adriele Prina-Mello, PhD**, Ussher Assistant Professor / LBCAM Director Trinity Translational Medicine Institute (TTMI) / Department of Clinical Medicine, School of Medicine and AMBER / CRANN, Trinity College Dublin, the University of Dublin (IRL) • **Dr. Jeffrey D. Clogston**, Principal Scientist, Section Head, Physicochemical Characterization, Nanotechnology Characterization Lab National Cancer Institute, Frederick, MD (USA)
...and further Speakers from FDA and from Industry

10.20 **Break**

10.50 -14.00 Plenary Sessions and Lunch

Part 2 Tuesday, Hall Samarkand

14.00 **Further Presentations of Session 17**

16.00 **Break**

Section 7: Plenary Session

Tuesday, Hall Montreal

Plenary **18. Cancer Vaccination and Redefining Cancer**

Chair **Prof. Dr. Dan Peer, Chair**, Tel Aviv University Cancer Biology Research Center, Director, Center for Translational Medicine, Director, Laboratory of Precision Nanomedicine, Dept. of Cell Research & Immunology, and Dept. of Materials Science & Engineering, Tel Aviv University, Tel-Aviv IL)

10.50 **From Papillomavirus Discovery to Cancer Vaccination**

Prof. Dr. med. Dr. h.c. mult. Harald zur Hausen, Professor emeritus, Nobel Laureate, German Cancer Research Center (DKFZ), Heidelberg (D)

11.40 **Questions and Debate**

12.00 **Redefining Cancer with Integrative Tumor Immunology: Novel Cutting Edge Immunotherapies for Patients**

Prof. Dr. Jerome Galon, Research Director, Chief French National Institute of the Health and Medical Research (INSERM) laboratory of Integrative Cancer Immunology, Cordeliers Research Center, Paris (F)

12.40 **Questions and Debate**

13.00 **Lunch**

Section 8: Satellite 3 - Closed Session IPRF Regulatory Authorities

	Tuesday, Hall Mexico
Plenary Chair	19. Closed Session IPRF Regulatory Authorities Satellite Dr. Michael Johnston, PhD , Research Scientist, Centre for Biologics Evaluation and Genetic Therapies Directorate, Health Canada, Ottawa (CND)
13.00	Group Lunch
	Tuesday, Hall Osaka
13.45	IPRF Meeting
About	The International Pharmaceutical Regulators Forum (IPRF) holds its Nanomedicines Working Group meeting 2018 in Basel at the neutral CLINAM-Platform to discuss nanotechnology and specifically nanomedicine related issues relevant to regulated products. (The agenda of this meeting will be handed out to all invited participants.) Participants from Europe, Japan, USA, India, Australia, Mexico, South Korea, Africa, China and India will be announced
14.50	Video Session
16.00	Break

Section 9: 4 Parallel Sessions

	Tuesday, Hall Montreal
Parallel 1 Chair	20. Diagnostic and Theranostic Concepts for Personalized Cancer Immunotherapy (15' including 2' Questions) Prof. Dr. med. Stephan Grabbe , Director of the Department of Dermatology, Medical Center and Polyclinic, Speaker of the Research Center for Immunotherapy, Mainz (D) and Prof. Dr. Twan Lammers , Experimental Molecular Imaging, RWTH Aachen, Aachen (D)
14.00	Improving Cancer Therapy: from Drug Delivery to Immunotherapy Prof. Alexander Eggermont , Professor of Oncological Surgery General Director of Gustave Roussy, University Paris Sud and Professor of Oncological Surgery at the Erasmus University of Rotterdam (NL)
14.25	The Future of Clinical (cancer) Diagnosis and its Role in Precision Therapy Prof. Dr. med. Fabian Kiessling , University Hospital Aachen, Director of the Department for Experimental Molecular Imaging (ExMI) RWTH Aachen University, Director of the Helmholtz Institute for Biomedical Engineering, Aachen (D)
14.40	Monitoring and Modulating Innate Immunity Using Nanomaterials Prof. Dr. Willem Mulder , Professor of Radiology at Icahn School of Medicine at Mount Sinai, NY (USA), Professor of Radiology, ISMMS Professor of Cardiovascular Nanomedicine, Director, Nanomedicine Program, AMC, Amsterdam (NL)
14.55	Ultrasound-based Approaches to Boost Cancer Immunotherapy Dr. Heleen Dewitte , Laboratory for General Biochemistry and Physical Pharmacy, Ghent Research Group on Nanomedicines, Department of Pharmaceutics, Ghent University, Ghent (B)
15.10	Imaging Biomarkers to Predict the Efficacy of Cancer Immunotherapy PD Dr. med. Matthias Miederer , Deputy Director, Department of Nuclear Medicine, University Medical Center Mainz, Mainz (D)
15.25	The Role of PET and Radionuclide Therapy in Cancer Immunotherapy Prof. Dr. med. Andreas Kjær, PhD, DMSc , Chief Physician, Dept. of Clinical Physiology, Nuclear Medicine & PET, Rigshospitalet, Copenhagen (DK)

- 15.40 **Questions and Debate**
- 16.00 **Break**
- Tuesday, Hall Sydney
- Parallel 2 **21. Nanomedicine in Infection and Inflammation** (15' including 3' for Questions and Debate)
Chair **Prof. Dr. Gert Storm**, Institute for Pharmaceutical Sciences, Utrecht University (NL)
- 14.00 **Nanoparticles as Antivirals**
Prof. Dr. Francesco Stellacci, Supramolecular Nanomaterials and Interfaces Laboratory, Constellium Chair, EPFL, Lausanne (CH)
- 14.15 **Clarithromycin-PLGA Nanocapsules: a Promising Strategy to Target Intracellular Staphylococcus Aureus and Mycobacterium Abscessus Infections**
Dr. Cristiane de Souza Carvalho Wodarz, Department of Drug Delivery (DDEL) Helmholtz-Institute for Pharmaceutical Research Saarland, Saarbrücken (D)
- 14.30 **5 NNs**
- 16.00 **Break**
- Tuesday, Hall Singapore
- Parallel 3 **22. Targeting and Drug Delivery in Nanomedicine and Precision Medicine**
Chair **Dr. Marieluise Wippermann**, CEO, TecoMedical Ltd, Sissach (CH)
- 14.00 **Precise Endovascular Drug Delivery for Optimal Efficacy and Minimal Toxicity in Oncology**
Dr. med. Eldad Elnekave, Director Interventional Oncology Clinic, Davidoff Cancer Institute & Radiology Department, Rabin Medical Center, Chief Medical Officer, Zebra Medical Vision, LTD., Tel Aviv (IL)
- 14.15 **Targeted Nano-therapeutics Aiming at the Resolution of Liver Diseases**
Dr. Ruchi Bansal, PhD, Assistant Professor, Biomaterials Science and Technology (BST), MIRA Institute, University of Twente (NL)
- 14.30 **Precision Cancer Nanomedicine with Tumor Homing Peptides and Peptidomimetics**
Prof. Dr. Tambet Teesalu, Head of the Lab of Cancer Biology, Institute of Biomedicine and Translational Medicine, University of Tartu (EST); Adjunct Assistant Professor Cancer Research Center, Sanford Burnham, Prebys Medical Discovery Institute, La Jolla, CA (USA)
- 14.45 **Nanomedicines Targeting the Multiple Myeloma-Stroma Alliance**
Prof. Dr. Gert Storm, Institute for Pharmaceutical Sciences, Utrecht University (NL)
- 15.00 **Development of Biohybrid Multistage Nanovaccines for Melanoma**
Flavia Fontana, MSc. Pharm., Drug Research Program, Faculty of Pharmacy, University of Helsinki (FIN)
- 15.10 **3 NNs**
- 15.40 **Questions and Debate**
- 16.00 **Break**

- Tuesday, Hall Rio
- Parallel 4 Chair **23. Novel Approaches in Material Sciences and Smart Materials in Nanomedicine** (15' including 3' Questions)
Prof. Dr. Paolo Decuzzi, Senior Researcher and Professor, Director of the Laboratory of Nanotechnology for Precision Medicine, Italian Institute of Technology, Genova (I)
- 14.00 **Modulating Cell Sequestration, Blood Longevity and Biodistribution by Tuning Nanoconstruct Rigidity**
Prof. Dr. Paolo Decuzzi, Senior Researcher and Professor, Director of the Laboratory of Nanotechnology for Precision Medicine, Italian Institute of Technology, Genova (I)
- 14.15 **Nano Cell Vesicle Technologies (nCVTs): exploiting Biomimicry for Nanomedicine**
Prof. Dr. Giorgia Pastorin, Associate Professor and Deputy Head (Research), Pharmacy Department, National University of Singapore, Singapore (SGP)
- 14.30 **Sugar Based Surfactants for Biotherapeutics Permeability-enhancement**
Prof. Dr. Luca Casettari, Associate Professor in Pharmaceutical Technology, University of Urbino Carlo Bo, Department of Biomolecular Sciences, Urbino (I)
- 14.45 **4 NNs**
- 15.45 **Questions and Debate**
- 16.00 **Break**

Section 10: Plenary Session

- Tuesday, Hall Montreal
- Plenary Chair **24. The Regulatory Authorities' Voice 2018**
NN
- 16.30 – 18.00
- Europe** **Prof. Dr. med. Marisa Papaluca**, Senior Scientific Adviser, Scientific Committees Regulatory Science Strategy, European Medicine Agency (EMA), London (UK)
- Japan** **Dr. Yuki Takechi-Haraya, Ph.D**, Research Scientist, Division of Drugs, National Institute of Health Sciences, Kawasaki (JPN)
- Canada** **Dr. Michael Johnston**, Research Scientist, Principal Investigator, Health Canada, Ottawa (CND)
- China** **Prof. Guangjun Nie**, National Center for Nanoscience & Technology of China – CAS Beijing (CHN)
- USA** **Dr. med. Frank F. Weichold, Ph.D.**, Director of Critical Path and Regulatory Science Initiatives, Office of Regulatory Science & Innovation (ORSI) and Office of the Chief Scientist / Office of the Commissioner Food and Drug Administration (FDA), Silver Spring, MD (USA) (invited)
- USA** **Dr. Katherine Tyner**, Associate Director for Science (acting), Office of Pharmaceutical Quality CDER/FDA, Springfield, IL (USA)
- India** **Prof. Amit Dinda, MD PhD**, Professor of Department of Pathology, All India Institute of Medical Sciences, and General Secretary for the Indian Society for Nanomedicine, Delhi (IND)
- Switzerland** **Dr. Lada Leyens, MSc**, Clinical Study Reviewer, Division Clinical Trials, Swiss Agency for Therapeutic Products (Swissmedic), Bern (CH)

Africa Prof. Dr. Hulda Shaidi Swai, Extraordinary Professor at University of Pretoria, School of Life Science and Bio-engineering, The Nelson Mandela African Institution of Science and Technology, Pretoria (ZA)

Australia NN, Therapeutic Goods Administration, Department of Health, Woden - Australian Capital Territory (AUS)

Section 11: Plenary Session

Tuesday, Hall Montreal
Plenary Chair **25. Ethical Matters**
Dr. med. hc. Beat Löffler, MA, CEO of the European Foundation for Clinical Nanomedicine, Basel (CH)

18.00 **How did this happen? A Fresh Look on Healthcare**
Peter Kapitein, President and Patient Advocate of Inspire2Live, Amsterdam (NL)

18.35 **Questions and Debate**

18.50 **End of Day 2 and Speakers Dinner**

19.40 **Speakers Leaving in front of the revolving doors of Congress Center**

20.00 **Speakers Dinner at Merian-Spitz**

Wednesday, September 5, 2018

Section 12: 4 Parallel Sessions

08.00 **Welcome Coffee**
Wednesday, Hall Montreal

Parallel 1 Chair **26. Cardiology and Atherosclerosis Nanomedicine**
NN

08.20 **New Facets of Cardiovascular Disease in Persons Lacking Conventional Risk Factors**
Prof. Dr. Harald Mangge, Interim Head, Clinical Institute for Medical and Chemical Laboratory Diagnosis (CIMCL) Medical University of Graz, Graz (A)

08.30 **Eradication of Atherosclerosis – new Steps**
Prof. Dr. med Patrick Hunziker, President of the International Society for Nanomedicine, Basel (CH)

08.40 **The European NanoAthero Project: From the Design to the Clinical Trials**
Prof. Dr. Didier Letourneur, Director of Cardiovascular Bioengineering, Laboratory for Translational Vascular Science, INSERM, Paris (F)

08.50 **Targeted Delivery of Berberine via Liposomes Protects Heart Function in Myocardial Infarction**
Dr. Jiong-Wei Wang, PhD, Department of Surgery, Yong Loo Lin School of Medicine, NUS
Department of Physiology, NUS, Cardiovascular Research Institute (CVRI), National University Heart Centre (NUHCS) Singapore (SGS)

09.00 **Multifunctional Nanomedicines for Targeted Drug Delivery and Imaging for Ischemic Myocardial Injury**
Prof. Dr. Hélder A. Santos, Associate Professor (tenure track) in Pharmaceutical Nanotechnology, Head, Division of Pharmaceutical Chemistry and Technology, Head, Preclinical Drug Formulation and Analysis Group, Director, Doctoral Program in Drug Research, Faculty of Pharmacy and Helsinki Institute of Life Science, University of Helsinki (FIN)

09.10 **Questions and Debate**

09.40 **Break**

- 08.00 **Welcome Coffee**
Wednesday, Hall Sidney
- Parallel 2 **27. Clinical Imaging in Precision Medicine** (10' incl. 1' for first questions)
Chair **Prof. Dr. med. Christoph Alexiou**, Department of Otorhinolaryngology, Head and Neck Surgery, Head Section of Experimental Oncology and Nanomedicine (SEON), Else Kröner-Fresenius-Stiftungs-Professorship, University Hospital Erlangen, Erlangen (D)
- About** Precision medicine has a big recognition by clinicians, patients, and pharmaceutical companies, healthcare responsible and economic healthcare governmental boards. Imaging plays a critical role in precision medicine and includes screening, early diagnosis, guiding treatment, getting response to therapy, and assessing likelihood ratio of disease re-eruption. This session gives insight in different fields of imaging.
- 08.20 **Upscaling of Nanopharmaceuticals for Biomedical Applications**
Prof. Dr. med. Christoph Alexiou, Department of Otorhinolaryngology, Head and Neck Surgery, Head Section of Experimental Oncology and Nanomedicine (SEON), Else Kröner-Fresenius-Stiftungs-Professorship, University Hospital Erlangen, Erlangen (D)
- 08.30 **Live-cell Fluorescence Imaging Platform to Characterize Internalization of Nanomedicines by Human Cells**
Dr. Natalia Vtyurina, Groningen Research Institute of Pharmacy, University of Groningen (NL)
- 08.40 **Radionanomedicine**
Prof. Dr. med. Dong Soo Lee, Ph.D, Chairman, Department of Nuclear Medicine Seoul National University Seoul, Seoul (ROK)
- 08.50 **Intersection of Machine Learning and Complex Neural Networks with Medical Imaging**
Dr. med. Eldad Elnekave, Director Interventional Oncology Clinic, Davidoff Cancer Institute & Radiology Department, Rabin Medical Center, Chief Medical Officer, Zebra Medical Vision, LTD., Tel Aviv (IL)
- 09.05 **Protein-sized and Ultrabright Dye-loaded Polymer Nanoparticles for Intracellular Imaging**
Dr. Andreas Reisch, Assistant Professor (Maître de conférences), Laboratory of Biophotonics and Pharmacology, UMR 7213 CNRS, Faculty of Pharmacy, University of Strasbourg, Illkirch (F)
- 09.15 **NN**
- 09.25 **Questions and Debate**
- 09.40 **Break**
- 08.00 **Welcome Coffee**
Wednesday, Hall Singapore
- Parallel 3 **28. New Findings and Procedures for Clinical Therapy in Cancer Nanomedicine** (15' incl. 2' Question / Debate)
Chair **NN**
- 08.20 **Breaking new Ground for the Future of Cancer Immunotherapy: Tumor-associated Macrophages, Nanomedicine and Imaging**
Dr. Saeid Zanganeh, PhD, Sloan Kettering Institute for Cancer Research, New York (USA)
- 08.35 **Links Between Bacterial Composition and Breast Cancer Tissue**
Stephen R. Grobmyer, MD, FACS, Professor of Surgery, Lerner College of Medicine, Director, Surgical Oncology Co-Leader, Cleveland Clinic Comprehensive Breast Cancer Program, Cleveland Clinic, Cleveland, Ohio (USA)

- 08.50 **Fluorescent Polymeric Nanoparticles for Ultrasensitive Detection of Nucleic acid Cancer Markers**
Dr. Andrey S. Klymchenko, Director of Research, Laboratory of Biophotonics and Pharmacology, UMR 7213 CNRS, Faculty of Pharmacy, University of Strasbourg, Illkirch (F)
- 09.05 **2 NNs**
- 09.35 **Last Questions and Debate**
- 09.40 **Break**
- 08.00 **Welcome Coffee**
 Wednesday, Hall Rio
- Parallel 4 **29. Computational Modelling, Virtual Patient in Affordable Precision Medicine**
 Chair **Prof. Dr. Giacinto Scoles**, Department of Medical and Biological Sciences, University Hospital, University of Udine, Udine (I) and Biology Department, Temple University, Philadelphia, PA (USA)
- 08.20 **The Role of Digital Transformation in the Quest for Affordable Innovation**
Dr. Steliyan Tinkov, MBA, PMP, Senior Pilot Plant Manager, Novartis Pharma AG, Basel (CH)
- 08.35 **Virtual Patient**
NN
- 08.50 **Bone Remodeling by Two Stage System of Liposomal Cytokine Embedded in Hydrogel**
Prof. Dr. Yechezkel Barenholz, Hebrew University, Hadassah Medical School, Jerusalem (IL)
- 09.05 **High-Throughput Screening of New Lipid Markers for Coronary Artery Disease**
Prof. Dr. med. Reijo Laaksonen, PhD, FESC, Chief Medical Officer, Zora Biosciences Oy
- 09.20 **Questions and Debate**
- 09.40 **Break**

Section 13: Satellite 4 SAMS (SAMW) Personalized Health

A Special Session for SAMW-registrars and CLINAM-registered Participants

- 08.00 **Welcome Coffee**
 Wednesday, Hall Samarkand
- Satellite 4 **30. Swiss Excellence in Science: SAMS/SPHN Workshop on Personalized Health**
 Chair **Prof. Dr. Torsten Schwede**, director of the SPHN Data Coordination Center and chair of the SPHN Executive Board, Biozentrum, University of Basel & SIB Swiss Institute of Bioinformatics, Basel (CH)

About The Swiss Academy of Medical Sciences (SAMS) was mandated 2016 by the State Secretariat for Education, Research, and Innovation (SERI) and by the Federal Office of Public Health (FOPH) to develop a Swiss Personalized Health Network (SPHN). During the period 2017–2020, priority is given to the development of a nationally coordinated data infrastructure, for which the SIB Swiss Institute of Bioinformatics has been mandated to coordinate and organize through the Data Coordination Center and the BioMedIT project. The aim is to ensure data interoperability of local and regional information systems with special emphasis on clinical data management systems enabling effective exchange of patient data (e.g. disease phenotypes).

Part 1**08.30 – 11.20****Five Interventions by Swiss Experts in the Project**

08.30

Overview of Swiss Personalized Health Network SPHN

Prof. Dr. med, Peter Meier-Abt, Chairman of the National Steering board of Swiss Personalized Health Network (SPHN), Bern / Zürich (CH)

08.50

Building an Interoperable Data Ecosystem for Personalized Health Research in Switzerland

Prof. Dr. Torsten Schwede, Director of the SPHN Data Coordination Center and chair of the SPHN Executive Board, Biozentrum University of Basel & SIB Swiss Institute of Bioinformatics, Basel (CH)

09.10

Computational Oncology & Molecular Modeling – the Development of Novel Strategies

Dr. med. Krisztian Homicsko, Head of Clinic, Service of Medical Oncology, CHUV – Department of Oncology, Research Scientist, EPFL, Lausanne (CH)

09.30

Questions and Debate

09.40

Break

10.10

The Personalized Swiss Sepsis Study

PD Dr. med. Adrian Egli, Department of Biomedicine University Hospital Basel, Basel (CH)

10.30

Report on Swiss Electronic Informed Consent (eConsent)

Prof. Dr. Christiane Pauli-Magnus, Head of Department Clinical Research, University of Basel (CH)

10.50

Questions and Debate

11.20

SHORT BREAK TO CHANGE TO PLENARY HALL MONTREAL**Part 2****11.30 – 13.45**

11.30

CLINAM PLENARY SESSION: 35. New Nano-pharmacological Concepts for the Treatment of Cancer

Prof. Dr. Patrick Couvreur, Membre de l'Institut Universitaire de France, UMR CNRS 8612, Université Paris-Sud- UFR de Pharmacie, Chatenay-Malabry (F) **and**

Prof. Dr. Med. André Nel, M.B. Ch.B., Ph.D., Distinguished Professor of Medicine, Associate Director California NanoSystems Institute, Chief of Nanomedicine and Director of the Center for Environmental Implications of Nanotechnology, UCLA, Los Angeles, CA (USA)

12.40

Lunch with all participants in CLINAM**Part 3****13.45 – 15.00 Two Interventions by Swiss Experts in the Project and Debate**

13.45

Molecular Pathology in Personalized Medicine**NN**

14.10

Studies on Frequent and Rare Respiratory Disorders During Childhood and over the Life Course**NN**

14.30

Questions and Debate

15.00

Break with all CLINAM Participants

Part 4 CLINAM PLENARY SESSION:

15.30 **40. Nanomedicine and Targeted Medicine – Late Breaking and Ongoing Trials**

17.30 End of Summit 2018

Section 14: 4 Parallel Sessions

Wednesday, Hall Montreal

Parallel 1 **31. New Aspects of Physics in Nanomedicine Relating to Clinic**

Chair **Prof. Dr. Wolfgang J. Parak**, CHYN - Physics Department Center for Hybrid Nanostructures, University of Hamburg (D)

10.10 **Towards Detecting the Protein Corona in Vivo**

Prof. Dr. Wolfgang J. Parak, Physics Department, CHYN - Center for Hybrid Nanostructures, University of Hamburg (D)

10.20 **Gold Nanoparticle-based Artificial Antibody Created by Conformational Engineering**

Prof. Dr. Aoneng Cao, Ph.D., Professor at the Institute of Nanochemistry and Nanobiology Shanghai University, Shanghai (CHN)

10.30 **2 NNs**

10.50 **Questions and Debate**

11.15 **SHORT BREAK: STAY IN PLENARY HALL MONTREAL**

Wednesday, Hall Sydney

Parallel 2 **32. Degenerative Diseases Nanomedicine** (12' + 3' for Questions and Debate)

Chair **NN**

10.10 **Novel Neuronanopharmaceuticals for Alzheimer Disease**

Prof. Dr. Moein Moghimi, Professor of Pharmaceutics and Nanomedicine, School of Pharmacy, Newcastle University, Institute of Cellular Medicine, School of Medicine, Newcastle University (UK) and Adjoint Professor, University of Colorado Medical Center, Boulder, CO (USA)

10.25 **Prions: Deadly Self-replicating Nanomachines**

Prof. Dr. Med. Adriano Aguzzi, PhD h.c., DVM h.c. FRCP, FRCPath, Director of the Institute of Neuropathology, University Hospital of Zurich, Zürich (CH)

10.40 **Selective drug Delivery Approaches to Lesioned Brain through Blood Brain Barrier Disruption**

Dr. Zahraa Al-Ahmady, BSc. MSc. PhD, Division of Pharmacy and Optometry, Faculty of Biology, Medicine, and Health, Stopford Building, Manchester (UK)

10.55 **NN**

11.15 **SHORT BREAK TO CHANGE TO PLENARY HALL MONTREAL**

Wednesday Hall Singapore

Parallel 3 **33. Regenerative Medicine and Biomedical Engineering**

Chair **Dr. Nadia Benkirane-Jessel**, Research Director and Head, Osteoarticular and Dental regenerative Nanomedicine Laboratory, INSERM (French National Institute for Health and Medical Research), Strasbourg (F)

10.10 **Combined Advanced Therapeutic Medical Device and Stem Cells for Regenerative Nanomedicine**

Dr. Nadia Benkirane-Jessel, Research Director and Head, Osteoarticular and Dental Regenerative Nanomedicine Laboratory, INSERM (French National Institute for Health and Medical Research), Strasbourg (F)

- 10.25 **Non-destructive Three-dimensional Analysis of Repaired Peripheral Nerves using X-ray Microtomography**
Dr. Georg Schulz, Postdoc PhD Physics, Biomaterials Science Center (BMC), University of Basel, Allschwil (CH)
- 10.40 **Programmable Design of Tissue-mimetic Materials**
Prof. Dr. Ronit Freeman, Associate Professor, Department of Applied Physical Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC (USA)
- 10.55 **Approaches Towards Editing Cell Fate and Phenotype**
Prof. Dr. Primo Schär, Department of Biomedicine, University of Basel, Basel (CH)
- 11.10 **SHORT BREAK TO CHANGE TO PLENARY HALL MONTREAL**
- Wednesday, Hall Rio
- Parallel 4 Chair **34. EU-NCL European Nanomedicine Characterization Laboratory – Lessons learned**
Patrick Boisseau, CEA-Léti, EUNCL infrastructure coordinator, Chairman of the ETPN, Grenoble (F)
- 10.10 **Introduction to EUNCL**
Patrick Boisseau, CEA-Léti, EUNCL infrastructure coordinator, Chairman of the ETPN, Grenoble (F)
- 10.20 **How to Get your Nanomedicines Processed by EUNCL?**
Dr. Simon Baconnier, Innovation Project Manager, CEA-Cinatec, Grenoble (F)
- 10.30 **The Regulators' Needs; Towards Standardization**
Dr. Susanne Bremer-Hoffmann, PhD, Team Leader European Commission Directorate General Joint Research Centre Directorate F – Health, Consumers and Reference Materials Consumer Products Safety, Ispra (I)
- 10.40 **New Frontiers in Characterizations: the Example of Liposomal Irinotecan Nanomedicine**
with
- Dr. Sven Even Borgos**, Research Scientist at SINTEF Materials and Chemistry, Department of Biotechnology and Nanomedicine, Trondheim (N)
- Dr. Neill Liptrott, B.Sc., M.Sc., Ph.D., MRSB**, Tenure-track Fellow, Nano-immunotoxicology (Biocompatibility) & Immunopharmacology Nanomedicine Research Group, Dept. of Molecular and Clinical Pharmacology Institute of Translational Medicine, University of Liverpool (UK)
- Patrick Boisseau**, CEA-Léti, EUNCL infrastructure coordinator, Chairman of the ETPN, Grenoble (F)
- Prof. Dr. Adriele Prina-Mello, PhD**, Ussher Assistant Professor / LBCAM Director Trinity Translational Medicine Institute (TTMI) / Department of Clinical Medicine, School of Medicine and AMBER / CRANN, Trinity College Dublin, the University of Dublin (IRL)
- Dr. Fanny Caputo**, EUNCL responsible of the physical-chemical characterization, CEA Grenoble/LETI/DTBS, Grenoble (F)
- 11.05 **Questions to the entire EUNCL Core Expert Team and Debate**
- 11.15 **SHORT BREAK TO CHANGE TO PLENARY HALL MONTREAL**

Section 15: Plenary Session

- Wednesday, Hall Montreal
- Plenary Chair **35. New Nano-pharmacological Concepts for the Treatment of Cancer**
NN
- 11.30 **The Squalenylation, a Generic Approach for the Conception of New Nanomedicines**
Prof. Dr. Patrick Couvreur, Membre de l'Institut Universitaire de France, UMR CNRS 8612, Université Paris-Sud- UFR de Pharmacie, Chatenay-Malabry (F)
- 11.55 **Questions and Debate**
- 12.05 **Nano-enabled Chemo and Immunotherapy for Pancreas Cancer**
Prof. Dr. André Nel, M.B. Ch.B., Ph.D., Distinguished Professor of Medicine, Associate Director California NanoSystems Institute, Chief of Nanomedicine and Director of the Center for Environmental Implications of Nanotechnology, UCLA, Los Angeles, CA (USA)
- 12.30 **Questions and Debate**
- 12.40 **Lunch**

Section 16: 4 Parallel Sessions

- Wednesday, Hall Montreal
- Parallel 1 Chair **36. Preclinical Studies and Ongoing Clinical Trials**
NN
- 13.45 **Novel Thermosensitive Liposomes for Neoadjuvant Treatment of High-risk Soft Tissue Sarcoma; From Comparative Oncology Trials Towards Clinical Application**
Prof. Dr. med. Lars Lindner, Head Sarcoma Medical Oncology, University of Munich, Munich (D)
- 13.55 **Proceeding Forward through Selection Criteria during Preclinical Evaluation**
Dr. Rana Sanyal, CSO, RS Research Inc., İstanbul Teknopark Kuluçka Merkezi Sanayi Mah, Pendik, İstanbul (TUR)
- 14.05 **3 NNs**
- 14.35 **Questions and Debate**
- 15.00 **Break**
- Wednesday, Hall Sydney
- Parallel 2 Chair **37. Rare and Neglected Diseases**
Prof. Dr. Pascal Mäser, Head, Parasite Chemotherapy, Swiss Tropical & Public Health Institute, Basel (CH)
- 13.45 **Introduction**
Prof. Dr. Pascal Mäser, Head, Parasite Chemotherapy, Swiss Tropical & Public Health Institute, Basel (CH)
- 13.55 **4 NNs**
- 14.35 **Questions and Debate**
- 15.00 **Break**

Wednesday, Hall Singapore

Parallel 3 **38. Safety of Nanomedicine by Design & Testing for Toxicity**
Chair **Prof. Dr. med. Janos Szebeni**, Head of the Nanomedicine Research and Education Center,
Semmelweis University, Budapest (H)

13.45 **5 NNs**

14.35 **Questions and Debate**

15.00 **Break**

Wednesday, Hall Rio

Parallel 4 **39. Applications for Nanomedicine and Precision Medicine**
Chair **NN**

13.45 **5 NNs**

15.00 **Break**

Section 17: Plenary Session

Wednesday, Hall Singapore

Plenary **40. Nanomedicine and Targeted Delivery – Late Breaking and Ongoing Trials** (15' including 3' Questions)
Chair **NN**

15.30 **Ongoing Phase 2 Trial of Lead Candidate, SEL-212, in Development for Chronic Severe Gout**
Dr. Werner Cautreels, CEO, Selecta Biosciences Watertown/Boston, MA (USA)

15.45 **CriPec® Platform and Lead Product CriPec® Docetaxel: Principles, Preparation, Biomedical Applications and Clinical Translation**
Dr. Cristianne JF Rijcken, PharmD PhD, Founder and CSO, Cristal Therapeutics, Maastricht (NL)

16.00 **4 NNs**

17.00 **Questions and Debate**

17.25 **Closing Words**

17.30 **End of CLINAM 11/2018**

18.00 **Leaving in front of Congress Center and walking to Restaurant Brauerei**

18.15 **Light Farwell Dinner**

General Information

Submissions of Abstracts for Speeches and Posters

ALL MAIL RELATED TO SUBMISSIONS GO TO submit18@clinam.org

The CLINAM Foundation is glad that every year the amount of submissions is increasing and we hope to see a lot of new research progresses and findings. At CLINAM you have the possibility to present your work on a worldwide platform with members from more than 35 countries. **Hereafter you will see the topics that relate to the Summit 2018:**

1. Topics for Abstracts

Clinical Topics: Nanomedicine and targeted delivery and precision medicine for cardiovascular disease, rheumatic disease, oncology, gastro-intestinal/hepatic disease, bacterial infection, viral infection, parasitic infection, implantology, inflammation, hematology, diabetes, neurology, neurosurgery, orphan diseases, eye and ear disease, tuberculosis, HIV, Ebola, tissue repair, orthopedics, etc.

Technology Topics: Nanosystems, nanoparticles, nanoanalytics and diagnostics, toxicology, nano-imaging, targeted drug delivery, using nanoparticles, GMP and quality assurance, propositions for solving a medical problem in a novel way by the use of nanotechnology, novel concepts and ideas if they can be supported by thorough reasoning and could lead to novel research and solutions. Materials for use in nanotechnology and targeted medicine, concepts, diagnosis and therapy in the field of personalized medicine: clinical diagnosis and management on the individual patient's clinical signs and symptoms, medical and family history, and data from laboratory and imaging evaluation to diagnose and treat illnesses, genetic testing leading to more personalized treatments. In addition, relevant novel tools for translational research and diagnostics, etc.

Implications Topics: Implications of nanomedicine for society, developing countries, environment, risks and benefits, public health finance, health economics, other subjects, etc.

Strategy, Government and Political Topics: Strategy building and policy processes in nanomedicine. Strategic approaches towards establishing a unified funding area for nanotechnologies for medical research. Policy processes to foster leadership in nanomedicine, regulatory authority topics as well as financial and marketing matter.

Industry Topics: Industry projects and solutions in nanomedicine and targeted medicine, tools related to Nanomedicine and targeted medicine. Industry models for the future large-scale production, good manufacturing practice, etc.

Regulatory and Societal Affairs, Networking and Financing Topics: Regulatory issues in nanomedicine, strategy and policy, the patient's perspective, ethical Issues in nanomedicine, University Village presentations, cutting-edge EU-project presentations, networking for international consortium formation, venture funding, fund investment and business-angel-investment.

Exhibitors Topics: Integrated interventions of exhibitors that are of high scientific or technical relevance and do not have the solely the purpose of promoting the trademark.

2. Canon of CLINAM 2018

All abstracts must cover original research aimed at future or current applications of nanoscience and targeted medicine including clinical trial designs, reports of ongoing and completed clinical trials, preclinical work, and technology papers with clinical long-term vision. All fields leading to the development of personalized medicine (precision-medicine) are also issues of great interest.

3. Deadline for Submissions of Abstracts

Send your abstracts as soon as possible. We regularly have meetings of the committee and make choices. **A submission until end of May is best choice. Until then we accept applications for oral presentations.** However all those who cannot make it, have still chance to submit a poster until July 8, 2018. **Later submissions of posters can be sent until 3 weeks before the summit but will not be included** into the proceedings of the summit. These submitters must therefore bring 20 handouts of their abstracts with them.

4. Submission Procedure (Sending Paper Abstract / Poster Abstract)

Abstract: Send us your poster-abstract or oral presentation-abstract (Microsoft Word, RTF or Open document file format, using Times New Roman, font size 11, single spacing, **NO PDF**). The submission must **not be longer than three pages**, including metadata and figures (one figure is obligatory). All illustrations, figures, and tables must be placed within the text at the appropriate points. Index your file as follows: **Last name.First name.abstract18.docx (or RTF etc.)**. You may send besides a word document a PDF for the purpose of control at printers' office.

Biography: Please add in your mail as separate document with your NARRATIVE CV, max. one page. No more than 5 titles of recent publications can be included. Index your file as follows: **Last name. First name.CV18.docx (or RTF etc.)**.

Portrait Photo: Send us a head picture in gif or jpg, **minimum 300 dpi. DO NOT COPY PASTE THE PICTURE BUT SEND IT AS AN ATTACHMENT**. Index your file as follows: **Last name.First.Name.Picture18.jpg (or gif)**.

All correspondence and abstracts relating the Submission 2018 have to be sent to submit18@clinam.org

5. Decision Regarding Acceptance

Decision for acceptance or declination **will be given as soon as possible but at latest within 3 weeks after submission**. You will then receive a decision E-Mail, regarding the acceptance or declination of your work. Submissions for oral presentations that are declined can be eligible for a poster presentation. In this case you will be informed. **Decisions of the Committee cannot be discussed.**

6. Presentation Times, Size of Posters, Installation of Posters

Posters will be located in the Foyer visible for all conference attendees. The meeting breaks and lunches will be the preferred time to study the posters. During lunch and breaks, the authors are asked to be present close to their poster. Posters are to be presented in the size of 1.40 meter high and 1.00 meter wide. Best posters will be awarded with a prize. **Poster installation is September 3, 2018 from 6.30 until 8.00 am latest and the posters can be removed on September 5, after 3.00 pm and latest until 6.00 pm**

7. University Village and Small Speeches

The University Village is an exquisite forum for universities and research institutes, giving them opportunity to present themselves as well as novel approaches, new research projects and initial outcomes of research, and patents. Researchers and engineers can **use the foyer to install exhibition tables as one-stop-shops for the large spectrum of conference participants**. Poster presenters and University Village members can apply **for presentations in a special session of Small Speeches, 4 minutes in length** and serving to highlight the research activities in Nanotechnology, Targeted Delivery and Precision Medicine. They must comprise three slides. • **Slide 1:** General introduction to the topic • **Slide 2:** Some of the highlights of submitter's work and institution's work • **Slide 3:** The proof as to how the work fits into the area of nanomedicine or precision medicine, including a glimpse into the future. **Application for a small speech is only possible after your poster has been accepted.** A University table costs 500.00 Euro and includes one registration. Address for booking this is by an E-mail to clinam@clinam.org and as reference **UNIVERSITY TABLE**. We will contact with you then.

8. VISA FOR SWITZERLAND – 3 months ahead!

Before registering, check Visa-Regulations for Switzerland: Participants **with visa-need for entering Switzerland**, have to make their appointment with the **Swiss Embassy 10 weeks before the Summit** in their country in order to make an application and to acquire a visa. **All concerned will register and then ask us in a mail to send an official invitation letter, which you will have to present at the embassy.**

9. Registration for the Summit under www.clinam.org

Currency is EURO	ONLINE REGISTRATION ONLY Payment by Credit Card (MasterCard or VISA) is the regular procedure. Bill in exceptional cases possible.		
Category	Early until-15.6.2018	Regular	Per 1 Day
Academy	700.00	820.00	300.00
Industry /Government	1'300.00	1'500.00	600.00
Students	450.00	490.00	200.00
Exhibitors multi-user-badge	800.00	800.00	-----
Invited Speakers	Registration according Invitation letter		
Submitted Talk academy	700.00	700.00	300.00
Submitted Poster academy	700.00	700.00	
Submitted Talk Student	450.00	450.00	200.00
Submitted Poster Student	450.00	450.00	
Fellowship 1	400.00	400.00	
Fellowship 2	Waived and/or accommodation		Rules below
Cancellation: until 31.5.18 80.00 €; after that 50%; after 1.7. Full Fee			
In order to apply for a fellowship read the rules below.			
Brokerage Cultural Event Monday 3.9. is not included in Registration. Your share is 40.00 €.			
All ESNAM members, speakers, submitters and fellowshippers are invited for the farewell dinner. All other participants pay 45.00 €.			
University Table incl. 1 registration: 500 € Please contact clinam@clinam.org for booking			

10. Fellowship Applications (until July 2018)

Fellowship 1: Fellowship includes the summit ticket, the Brokerage Cultural Event and the Farewell Dinner. Submission of abstract of proposed poster or talk is mandatory. Write a letter and apply for the fellowship and give reasons for this.

Fellowship 2: First a submission of abstract of poster or talk is mandatory. Only for people with small means. Address a letter with your request (waived registration and / or accomodation), why the foundation should support you. Add a reference letter by a superior of your organization stating the motivation.

Send your application to Fellow18@clinam.org . Fellowship-Decisions of the Committee **cannot be disputed**. Fellowships are given away on a “first come first served” model since the funds are limited.

Decision on Fellowship: Applicants receive a decision by email within 4-6 weeks. Registration then has to be done within 7 days after notice of successful submission with the link provided in the decision letter.

11. CLINAM Exhibition

Profit of Exhibiting

Exhibitors at the CLINAM Summit profit from meeting their potential clients in one spot since CLINAM is the world’s largest Summit in **Clinical** Nanomedicine with 500+ participants in need of toolmakers findings, knowledge and their devices. **SMEs and small Start-up companies** have the chance to showcase their skills at an affordable price and to meet ALL STAKEHOLDERS in in the field of nanomedicine, targeted delivery and precision medicine. This is a Foyer exhibition at low exhibitor’s rate. All breaks and catering for lunches take place in midst of the CLINAM Marketplace. Start-up booths are given to companies that are less than 3 years active development.

Regular Fees and Star-up Fees

Booking online <https://www.clinam.org/exhibition.html>

Floor space (350 €/m²)

6 m² (minimum) 2'100.00 €

8 m² 2'800.00 €

12 m² 4'000.00 €

(Maximum is 36 m²)

- Company name A3 on pillar 100.00 €
- 1 table, 2 chairs, 1 pin board for poster & power connection 200.00 €
- Exhibitors ticket for conference exhibitors multi-user-badge 800.00 €
- Booth construction on demand
- **Special Start-up Booth:** 4 m², 1 table, 2 chairs, pillar, power connection and 1 registration (upon application, company less than 3 years active) **1'650.00 €**

Summit Venue

Congress Center Basel
Messeplatz 21
CH-4058 Basel
Switzerland
Phone +41 58 206 28 28
info@congress.ch

Registration Office

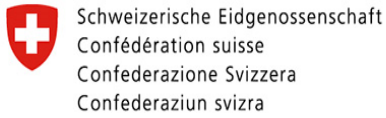
Viva Management GmbH
Kramgasse 16
CH-3011 Bern
Switzerland
Phone +41 31 311 74 34
clinam@viva-management.ch

Organizers Office

European Foundation for
Clinical Nanomedicine
Alemannengasse 12
CH-4058 Basel, Switzerland
Phone +41 61 695 93 95
clinam@clinam.org

Sponsors of the 11th European and Global Summit for Clinical Nanomedicine, Targeted Delivery and Precision Medicine

The Building Blocks to Personalized Medicine



State Secretariat for Education,
Research and Innovation SERI

GAGAG

isaac
dreyfus
bernheim
FONDATION/STIFTUNG



...and further Sponsors