



Credit : CEA/Pierre Jayet

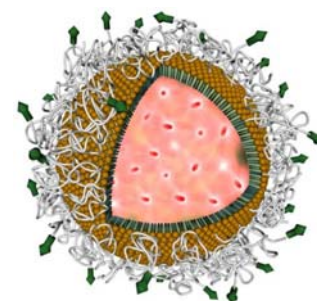
Nano4Med

Nanostructures for clinical diagnosis and therapy

21st June 2010 at Minatec, Grenoble, France

Scope

The application of nanostructures like nanoparticles, in medicine opens new horizons due to their outstanding physical and chemical properties at the nanoscale. The workshop will present invited lectures on leading edge research on and development of the most promising nano-assemblies specifically designed for human *in vivo* use. Clinical applications cover drug delivery systems, and therapeutic and imaging agents among others. Key topics like toxicology, nanocharacterisation, scalability and translation to the clinics will also be presented. A special emphasis will be put on nanostructures under industrial development.



Speakers

- Dr Rachel **AZELY**, CERMAV, Grenoble
- Prof. Juergen **BORLAK** Fraunhofer Institute of Toxicology and Experimental Medicine, Hannover
- Prof. Rogerio **CASPAR** Faculdade de Farmácia da Universidade, Lisboa
- Dr Jean-Luc **COLL**, Institut Albert Bonniot, Grenoble
- Prof. Michel **DELEERS** UCB Pharma, Braine l'Alleud
- Prof. Claus-Michael **LEHR**, Helmholtz-Institute for Pharmaceutical Research, Saarbruecken
- Dr Laurent **LEVY**, Nanobiotix, Paris
- Dr Patrice **MARCHE** INSERM, Grenoble
- Dr Philippe **RIZO**, Fluoptics, Grenoble
- Prof. Heinrich **WALT**, University Hospital, Zurich

Topics

- Targeted Photo Dynamic Therapy with nanoparticles
- Nano drug delivery systems for CNS
- Polysaccharides for in vivo applications
- Overview of nanoparticles for medical applications
- Per-operative fluo imaging with nanoemulsions
- nano-Xray for radiotherapy
- Toxicology of nanoparticles
- PLA, PLGA nanoparticles
- Nanoparticles in cancer imaging and therapy
- A tool box for immunotox studies of nanoparticles

Programme

	Title
09:00	Welcome
09:15	Keynote 1: Prof. Claus-Michael LEHR: Overview of nanoparticles for medical applications
09:30	
09:45	lecture 1: Prof. Heinrich WALT: Targeted Photo Dynamic Therapy using nanoparticles
10:00	
10:15	
10:30	Coffee break
10:45	
11:00	lecture 2: Dr Laurent LEVY: Nano-Xray, nanoparticle for radiotherapy
11:15	
11:30	lecture 3: Dr Rachel AUZELY: polysaccharides for <i>in vivo</i> applications
11:45	
12:00	lecture 4: Dr Patrice MARCHE: A tool box for immunotoxicity studies of nanoparticles
12:15	
12:30	Lunch
12:45	
13:00	
13:15	
13:30	
13:45	
14:00	Keynote 2: Prof. Jürgen BORLAK: Toxicology of nanoparticles for <i>in vivo</i> applications
14:15	
14:30	
14:45	lecture 5: Prof. Rogerio CASPAR: PLA, PLGA polymeric nanoparticles
15:00	
15:15	lecture 6: Prof. Michel DELEERS: Nanodrug delivery in CNS
15:30	
15:45	
16:00	Coffee break
16:15	
16:30	lecture 7: Dr Jean-Luc COLL: Nanoparticles for cancer imaging
16:45	
17:00	lecture 8: Dr Philippe RIZO: Per-operative fluorescence imaging
17:15	
17:30	Conclusions

Place of conference



Nano4Med will take place at MINATEC. MINATEC innovation campus is home to 2,400 researchers, 1,200 students, and 600 technology transfer experts on a state-of-the-art 20-hectare campus offering 10,000 square meters of clean room space. An international center for micro and nanotechnologies, the MINATEC campus is unlike any other research facility in Europe

Nano4Med is part of Minatec Crossroads'10. During one week, from 21st June to 25th June 2010, MINATEC brings together in Grenoble the world's leading researchers and manufacturers in micro and nanotechnologies. This week is a unique opportunity to review and debate with researchers, industry leaders and academics during 13 workshops and conferences:

Information and registration

<http://www.minatec-crossroads.com/>

Organisers

Patrick BOISSEAU, Patrick.boisseau@cea.fr

CEA-Leti

Institute of Micro- and nanotechnologies for Biology and Health

www.leti.fr

