

**Venue:** NH Conference Centre Leeuwenhorst, Langelaan 3, 2211XT Noordwijkerhout

**Time:** 2009 October 15-16 (Thursday and Friday)

**Overlap:** The Thursday afternoon programme overlaps with the 5<sup>th</sup> NISB Symposium

## Programme | Thursday, 2009 October 15

### Systems Biology | Tracing Life's Circuitry

13.00	<i>Checking in</i> <i>Sandwich lunch</i>
14.00 – 14.10	<b>Launching NCSB: a new NGI Genomics Centre</b> - Colja Laane (NGI Director, 's-Gravenhage)
14.10 – 14.30	<b>The NCSB programme: implementing systems biology</b> - Roel van Driel (NCSB Director, Amsterdam)
14.30 – 15.10	<b>The principles of systems biology</b> - Denis Noble (Oxford, UK)
15.10	<i>Break</i>
15.40 – 16.20	<b>The cellular uptake of pharmaceutical drugs: a problem not of biophysics but of systems biology</b> - Douglas Kell (BBSRC/Manchester, UK)
16.20 – 17.00	<b>Systems-level feedback control cell cycle progression</b> - Béla Novák (Oxford, UK)
17.00	<i>Drinks</i>
18.30	<i>Dinner</i>
20.00 – 21.00	<b>"Nature is wont to hide herself": are we about to unveil the complexities of life?</b> - Hub Zwart (CSG, Nijmegen)
21.00	<i>Drinks &amp; bites in Cheers Sportcafé</i>

## Programme | Friday, 2009 October 16

### Theme | Molecular networks: properties, design and control

#### Metabolic networks: beyond stoichiometry

- 08.30 – 09.00 **Understanding metabolic adaptation through systems biology**  
- Bas Teusink (KC/NISB, Amsterdam)
- 09.00 – 09.20 **Metabolic syndrome and energy balance**  
- Sjoerd van den Berg (CMSB, Leiden)
- 09.20 – 09.50 **Controlling the beast: metabolic roars and silence in muscle**  
- Jeroen Jeneson (CMSB, Eindhoven)
- 09.50 – 10.10 **Hierarchical regulation analysis: from yeast to mouse**  
- Barbara Bakker (TIFN, Groningen)
- 10:10 *Break*
- 10.40 – 11.10 **Nutritional systems biology of fat**  
- Michael Müller (TIFN, Wageningen)
- 11.10 – 11.30 **An optimisation approach for understanding adaptive growth strategies of unicellular organisms**  
- Pinar Ozturk (NISB/KC, Amsterdam)

#### Dealing with complex biological systems

- 11.30 – 12.00 **Mathematical modelling in systems biology: a flourishing issue**  
- Jaap Molenaar (CBSG, Wageningen)
- 12.00 – 12.20 **Modelling chromatin organisation in *Arabidopsis* root cell nuclei**  
- Sylvester de Nooijer (CBSG, Wageningen)
- 12.20 *Buffet Lunch*
- 13.20 – 13.50 **Novel information management approaches for the development of biomedical knowledge bases to support systems biology**  
- Antoine van Kampen (NBIC, Amsterdam)
- 13.50 – 14.10 **Characterisation of human gamma-globin silencing complex(es) in order to re-activate gamma-globin expression for the treatment of beta-thalassemia and sickle cell anemia**  
- Farzin Pourfazad (CGC, Rotterdam)
- 14.10 – 14.30 **Identification of in-vivo kinetics using dynamic <sup>13</sup>C experiments**  
- Aljoscha Wahl (KC, Delft)
- 14.30 – 15.00 **Pathway identification from genomic data**  
- Lodewyk Wessels (CGC, Amsterdam)
- 15.00 *Break*
- 15.15 – 15.45 **NCSB groupleaders meeting**