



# LAKE COMO SCHOOL OF ADVANCED STUDIES

## Systems Biology and Systems Medicine: Towards a Precision Medicine

**The 2<sup>nd</sup> SyBSyM Lake Como School – 26-30 September 2016, Como, Italy**

There is limited reason to be concerned about an inability to collect vast amounts of (BIG) Data; we are fully capable of this since the genomics revolutions. Data have been and are being collected: databases are full of them. However, neither Medicine nor Biotech is progressing as swiftly as we would have hoped with all those data available. The progress limitation may reside elsewhere. Apparently there is more needed than just Data. Systems Biology and Systems Medicine have brought and are bringing forward innovative approaches that are enabling to build bridges between data on the one hand and both understanding and applications on the other. This course will highlight those methods, some of the understanding obtained, and some applications. This should inspire the participants to become involved in the new and greatly empowered precision medicine and precision biotechnology.

### Organizers

**Lilia Alberghina**  
SYSBIO.IT – Italy

**Hans V. Westerhoff**  
Univ. of Amsterdam (UvA, VRU)  
Univ. of Manchester

**Massimiliano Borsani**  
SYSBIO.IT – Italy

**L Alberghina**, SYSBIO.IT  
**M Barberis**, UvA Amsterdam  
**TP Burris**, Saint Louis Univ., USA  
**C Damiani**, SYSBIO.IT  
**S Hautaniemi**, Univ. of Helsinki  
**W Kolch**, CASyM, and Conway  
Institute/Systems Biology Ireland  
**A Kolodkin**, LCSB, Luxembourg  
**A Koster**, HVA Amsterdam  
**H Lehrach**, MOLGEN, Max  
Planck Institute, Berlin

**E Medico**, IRCCS Candiolo, Italy  
**T Mondeel**, UvA Amsterdam  
**G Piccialli**, SYSBIO.IT  
**D Rozman**, CASyM, and Univ. of  
Ljubljana  
**M Vanoni**, SYSBIO.IT  
**M Viceconti**, Univ. of Sheffield  
**HV Westerhoff**, UvA and VRU  
Amsterdam, and Univ. of  
Manchester

### Lecturers

### Supported by



**Applications and Deadlines:**  
<http://sbsm.lakecomoschool.org>



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## The 2<sup>nd</sup> SyBSyM Lake Como School: “Towards a Precision Medicine” PROGRAM

Lake Como School of Advanced Studies, 26-30 September 2016

Location: Villa del Grumello, Via Cernobbio, 11, Como

Web site: <http://sbsm.lakecomoschool.org/>

	Sep 26, Mon	Sep 27, Tue	Sep 28, Wed	Sep 29, Thu	Sep 30, Fri		
	Chair: Alberghina	Chair: TBA	Chair: TBA	Chair: TBA	Chair: Westerhoff		
8.30-9.00	Registration						
9.00-9.30							
9.30-11.00	<i>Opening</i> Hans Westerhoff	Sampsa Hautaniemi	Yeast computer models for precision medicine (chairs: M. Vanoni, M Barberis)	Damjana Rozman	Systems Biology models for drug discovery (chairs: D. Rozman, G. Piccialli)		
11.00-11.30	Coffee break		Coffee break				
11.30-12.00	Enzo Medico		Coffee break		Thomas Burris		
12.00-13.30			Hans Lehrach			Marco Viceconti	
13.30-14.30	Lunch		Lunch				
14.30-15.30	TBA	Walter Kolch	Sightseeing (or free time)		Lilia Alberghina		
15.30-16.00	Coffee break				Anneke Koster		
16.00-16.30	Network analysis (Thierry Mondeel)				Coffee break		Closing remarks – Alberghina
16.30-17.30					Dynamic models (Alexey Kolodkin)		Goodbye coffee
17.30-18.00	Late break with informal discussions		TBA		Constraint-based Models (Chiara Damiani)		
18.00-19.30						Welcome drink	
			Social dinner				

**Legend:**

Lecture	Break	Social event
Demonstration	Open discussion	

TBC = To Be Confirmed

TBA = To Be Announced