

**PROGRAMME** 

















# Wednesday - April 23

Venue: Ehrling-Persson hall, Aula Medica, Karolinska Institutet

12.00-13.00	<b>Registration and buffet lunch</b> , level 3 outside Ehrling-Persson hall
— 13.00-13.1 <b>5</b>	Opening Prof. Anders Hamsten, Vice-Chancellor Karolinska Institutet Prof. Dan Henningson, SeRC Director
— 13.15-14.00	Making Big Data work for the medical sciences Prof. Gilean McVean, Director Oxford Big Data Institute, Oxford, UK
— 14.00-14.30	The new era of European life-science infrastructure: Data, Computing and Services to Communities Dr. Niklas Blomberg, Director ELIXIR
<b>—</b> 14.30-15.00	Coffee
— 15.00-15.30	The new Danish infrastructure for health surveillance and research Prof. Mads Melbye, Director, National Health Surveillance and Research, Statens Serum Institut
<b>— 15.30-16.00</b>	e-Science for Cancer Prevention and Control, eCPC Prof. Juni Palmgren, Karolinska Institutet
— 16.00-16.1 <b>5</b>	e-Science challenges in the neuroscience field Prof. Jeanette Hellgren Kotaleski, Royal Institute of Technology & Karolinska Institutet
— 16.15-16.30	e-Science in medicine – challenges and opportunities. Illustration through examples Prof. Jesper Tegnér, Karolinska Institutet & Karolinska University Hospital
<b>— 16.30-17.00</b>	Integration and visualization of NGS data - the Swedish 1000 genome project and massive single cell analysis Prof. Joakim Lundeberg, Science for Life Laboratory, Stockholm, Sweden
<b>17.00-18.00</b>	<b>Drinks</b> , outside of Ehrling-Persson hall
18.00	<b>Dinner,</b> Nanna Svartz, Aula Medica

### **Connected meetings:**

# Thursday - April 24

Venue: Samuelsson hall, Karolinska Institutet

	09.00-09.45	<b>An agenda for e-Science and e-Infrastructure in Sweden</b> Prof. Anders Ynnerman, Linköping University
	09.45-10.15	<b>SeRC flagship on visualization</b> Timo Ropinski, Linköping University
	10.15-10.45	Towards a Virtual Wind Tunnel - Fluid Simulations in the SeRC Exascale Flagship Matthew de Stadler, Royal Institute of Technology
	10.45-11.15	Coffee
_	11.15-11.45	<b>Towards bigger data</b> Mattias Andersson, Senior Data Scientist, King.com
_	11.45-12.15	<b>Big Data in science</b> Jim Dowling, Royal Institute of Technology
	12.15-12.30	Swedish e-Science Education (SeSE) Anders Hast, Uppsala University
	12.30-13.30	Buffet lunch, outside Samuelsson hall



#### Find the venues at Karolinska Institutet



### The Swedish e-Science Research Centre (SeRC)

Advanced computer based research, such as the handling of large data sets and the use of high performance computers for simulations and calculations, is an integral part of scientific research today, commonly known as e-Science. e-Science is complementary to the traditional means of doing research by experiments and theoretical reasoning.

SeRC is a national center for e-Science in Sweden formed by the four universities Kungliga Tekniska högskolan (KTH), Stockholms universitet (SU), Karolinska institutet (KI) and Linköpings universitet (LiU) around the largest high performance computing centers and visualization centers in Sweden. Funded by the Swedish Research Council, SeRC brings together a core of nationally leading IT research teams and scientists in strategic application areas. SeRC consists of several communities, some of which are focusing on core e-Science methodology, like numerical analysis, distributed and parallel techniques, visualization and data management, whereas other focus on some area of application of this methodology, like complex diseases, bioinformatics, molecular simulations, electronic structure, computational fluid dynamics or climate research. Key aims of SeRC are to perform core e-Science research and to connect applied groups with core e-Science groups and computer experts.

For more information on SeRC, see www.e-science.se









