

PLANT BIOINFORMATICS

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A BIC-GH-SYMPOSIUM



BIOINFORMATICS CENTRE GATERSLEBEN-HALLE

Martin Luther University Halle-Wittenberg

Halle/Saale, 24 & 25 September 2007

Institute of Computer Science

Von-Seckendorff-Platz 1



The Bioinformatics Centre Gatersleben-Halle is supported by the Federal Ministry of Education and Research (BMBWF) under grant 0312706 and is part of the Network of Bioinformatics Competence Centers (NBCC). We would also like to thank SunGene GmbH, Gatersleben for kindly sponsoring the Symposium.

Programme

Monday, 24 September 2007

10:00	Stefan Posch <i>BIC-GH, MLU Halle</i>	Welcome
10:05	Pablo Rabinowicz <i>University of Maryland, Baltimore, USA</i>	Plant genome sequencing: from gene-enrichment to whole genome shotgun and back
10:50	Ivo Grosse <i>BIC-GH, IPK Gatersleben</i>	Data analysis with the Plant Data Warehouse
11:20	Coffee Break	
11:45	David Marshall <i>SCRI Invergowrie, UK</i>	Comparative cereal genomics: holding the sparse matrix together
12:15	Andreas Graner <i>IPK Gatersleben</i>	Integrative genomics in the <i>Triticeae</i> - promises kept and pending
12:45	Lunch Break	
14:00	Uwe Scholz <i>IPK Gatersleben</i>	The base of the Plant Data Warehouse
14:30	Jens Keilwagen <i>BIC-GH, IPK Gatersleben</i>	Predicting the number of haplotypes integrating marker, passport, and phenotypic data
15:00	Lothar Altschmied <i>IPK Gatersleben</i>	The unfolding story of RGD genes - interplay of wet lab approaches and bioinformatics
15:30	Andreas Stephanik <i>BIC-GH, IPK Gatersleben</i>	BATEX - integration of gene expression data into the Plant Data Warehouse
16:00	Coffee Break	
16:30	Udo Seiffert <i>BIC-GH, IPK Gatersleben</i>	Machine learning techniques in plant bioinformatics
17:00	Ralf Klösgen <i>MLU Halle</i>	Organelle specificity of protein transport signals in plants
17:30	Patrick Schweizer <i>IPK Gatersleben</i>	A high-throughput phenomics approach in barley reveals genes required for durable disease resistance: an entry point for targeted trait improvement
18:00	Christian Hege <i>BIC-GH, Zuse Institute Berlin</i>	Reconstruction of 3D models of biological objects from serial sections
20:00	Dinner at the <i>Saline</i>	

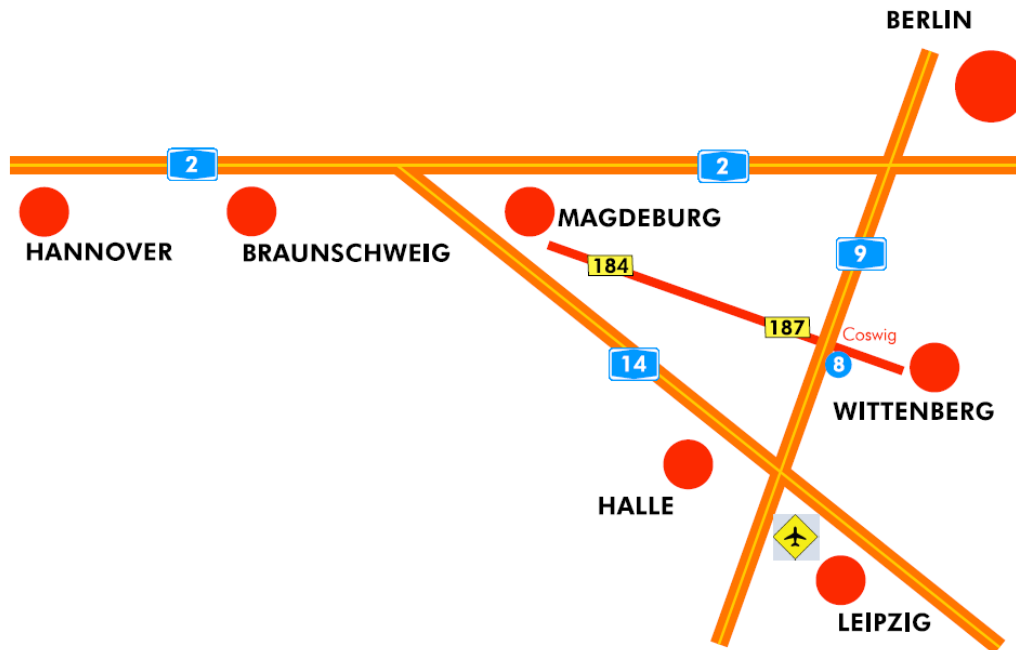
Tuesday, 25 September 2007

9:00	Alexander Levin <i>BASF Plant Science</i>	Chances and challenges in plant bioinformatics - a BASF Plant Science perspective
9:45	Steffen Neumann <i>BIC-GH, IPB Halle</i>	MetWare: a metabolomics analysis platform
10:15	Coffee Break	
10:35	Joachim Kopka <i>MPI Golm</i>	GC-TOF-MS metabolite profiling: recent developments and applications
11:05	Dierk Scheel <i>IPB Halle</i>	Metabolite profiling and plant defense
11:35	Ralf Tautenhahn <i>BIC-GH, IPB Halle</i>	High accuracy peak picking in LC/ESI-TOF-MS data
12:05	Lunch Break	
13:30	Falk Schreiber <i>BIC-GH, IPK Gatersleben</i>	Motif-based centrality: ranking of network elements based on functional substructures
14:00	Edgar Wingender <i>University of Göttingen; BioBase, Wolfenbüttel</i>	Integrated promoter and pathway analysis of gene expression data
14:30	Christian Klukas <i>BIC-GH, IPK Gatersleben</i>	Analysis and visualisation of high-throughput data in the context of relevant networks
15:00	Theo van Hintum <i>Centre for Genetic Resources, Wageningen, The Netherlands</i>	Unlocking global genetic resources: the bioinformatics challenges
15:45	Final Remarks	

Travel

Venue

Martin Luther University Halle-Wittenberg
Institute of Computer Science
Room 5.09
Von-Seckendorff-Platz 1
06099 Halle/S.



Via Halle-Leipzig airport or central station

Form the airport you can directly switch to trains towards Halle central station. Leave the central station via the exit (DR-Reise-Zentrum, direction north). Take the **tram no. 4** direction "**Heide**". The tram takes about 15 minutes to the "**Straßburger Weg**". Please depart from the tram and cross the tram rails and the street. Straight and to the left side you can see the building of computer science. For directions by car, check below or follow the link.

<http://maps.google.com/maps/ms?ie=UTF8&hl=en&msa=0&msid=101394575928670540300.00043484283f30bdbebe1&z=14&om=1>

By car

From Magdeburg A14 - exit Trotha and coming from Harz (via B6/E49, quarter Trotha)

Magdeburger Chaussee --- Trothaer Straße --- turn right into the Seebener Straße (signpost: Halle-Neustadt, B80) --- Kröllwitzer Straße (Giebichensteinbrücke) --- turn right into the Talstraße and once more right - along the river Saale --- Ernst-Grube-Straße (past to the Klinikum Kröllwitz) --- left in the Heideallee --- past some metres right comes the entrance to the university ground (former barrack-yard) --- across the Von-Seckendorff-Platz... --- left is the building of the institute of computer science

Coming from Wernigerode / Klostermansfeld (Harz) - (quarter Dölau)

Salzmünder Straße --- left in the Stadtforststraße --- Waldstraße --- turn right into the Nordstraße --- Brandbergweg --- Hubertus-Platz --- along the street in the Heideallee --- past some metres right comes the entrance to the university ground (former barrack-yard) --- across the Von-Seckendorff-Platz... --- left is the building of the institute of computer science

Coming from Berlin A9 - on B100, to Leipzig A14 - exit Peißen, motorway B100 (quarter Frohe Zukunft)

Berliner Chaussee --- Dessauer Brücke --- Wolfensteinstraße --- Große Brunnenstraße --- Kröllwitzer Straße (over the bridge) --- turn right into the Talstraße and once more right - along the river Saale --- Ernst-Grube-Straße (past to the Klinikum Kröllwitz) --- left in the Heideallee --- past some metres right comes the entrance to the university ground (former barrack-yard) --- across the Von-Seckendorff-Platz... --- left is the building of the institute of computer science

Coming From Harz, Lutherstadt-Eisleben via B80 (quarter Halle/Neustadt)

B80, by-pass way (left is Halle-Neustadt) --- Gimmritzer Damm --- past the traffic-light and drive in the Heideallee --- past some metres turn left and across the tramway track --- in the opposite entrance to the university ground (former barrack-yard) --- across the Von-Seckendorff-Platz... --- left is the building of the institute of computer science

Coming from Merseburg

Merseburger Straße to Riebeckplatz --- line Eisleben (traffic circle) --- Magistrale (line Halle-Neustadt) --- next exit right (line Kröllwitz - Heide) --- to Gimmritzer Damm --- past the traffic-light and drive along the Heideallee --- past some metres turn left and follow the street --- right is the entrance to the university ground (former barrack-yard) --- across the Von-Seckendorff-Platz... --- left is the building of the institute of computer science

Within Halle

From the central station and from Hotel Maritim take **tram no. 4** direction "**Heide**". The tram takes about 15 minutes to the "**Straßburger Weg**". Please depart from the tram and cross the tram rails and the street. Straight and to the left side you can see the building of computer science.