



The Luxembourg Bioinformatics Network

Activity Report 2010

LISA GA 11.04.2011

- Active Community of bioinformaticians in Luxembourg
- Created April 2008
- 80+ members
- Endorsed by major institutions
- CRP-Santé, CRP-Gabriel Lippmann, CRP-Tudor, University of Luxembourg

* LISA Working group:
LuciLinX

Lucilinx Mission Statement version 2008 available at
www.lucilinx.lu

The network has two principal goals:

1. Promote communication between bioinformaticians in Luxembourg
2. Increase the national and international visibility of bioinformatics research and applications in Luxembourg
3. Reach out to institutions in the Greater Region

* LISA Working group:
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Workshops Summer 2010:

Title	Teacher	Institution	Type	Date
Statistical data analysis in Excel	Petr Nazarov	CRP Santé	Single (6 hours)	14 June 2010
Biolab - Informatics meets Biology Do it Yourself: Quantitative PCR	Stephanie Kreis	Université du Luxembourg	Cycle, 1 topic per day	28 July 2010, 9h00 - 17h00
Phylogeny for Beginners	Nancy Gerloff, Daniel Struck	CRP Santé	Single (3 hours)	29 July 2010, 14h00 - 17h00
Introduction to Linux, tailored towards bioIT	Anke Wienecke-Baldacchino	Université du Luxembourg	Cycle (9 hours)	POSTPONED. New date will be proposed soon.

 Activities 2010

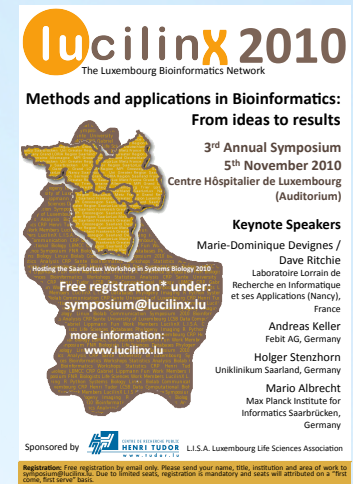
Workshops Autumn/Winter 2010:

Title	Teacher	Institution	Type	Date
Image processing in Microscopy and Biomedical Imaging	Patrick Pirrotte, Sebastien Plançon, Céline Hoffmann, Andreas Jahnen, Christian Moll	Uni Luxembourg, CRP Henri Tudor	6-hour course, divided into 2 sections of 3 hours each	17 + 24 September 2010
Database Design	Anne-Marie Ternes	CRP Santé	Single	26 October 2010
Introduction to R	Petr Nazarov, Thomas Udelhoven	CRP Santé, CRP Gabriel Lippmann	Single	22 November 2010
Introduction to Metabolic Network Modelling	Thomas Sauter	Université du Luxembourg	Single	30 November 2010

 **Activities 2010**

3rd Annual Symposium:

- Friday, 5th November 2010
- CHL Auditorium
- Organizing Committee
 - Patrick Pirrotte, CRP Henri Tudor
 - Anne-Marie Ternes, CRP Santé
 - Anke Wienecke-Baldacchino, University of Luxembourg
- First year with “Call for Abstracts” and Scientific Committee
 - Stephanie Kreis, University of Luxembourg
 - Patrick Pirrotte, CRP Henri Tudor
 - Danièle Evers, CRP Gabriel Lippmann
 - Anne-Marie Ternes, CRP Santé
 - Kjell Sergeant, CRP Gabriel Lippmann
 - Anke Wienecke-Baldacchino, University of Luxembourg



*Activities 2010

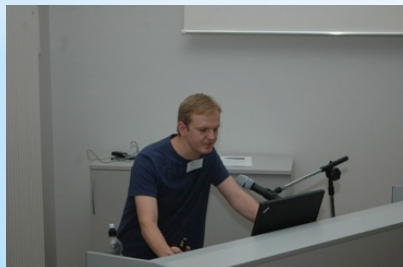
3rd Annual Symposium:

- 9 Abstracts submitted for 8 slots
 - Peer-reviewing of abstracts: 8 abstracts accepted for talks
- 13 Speakers with 4 keynotes
 - from Germany, France and Luxembourg
- 70 Registrations (58 participants)
 - from Germany, France, Belgium, Netherlands



* Activities 2010

Timing	Name	Title of Talk
9.00-9.15	Patrick Pirotte (CRP-Henri Tudor)	Opening, Introduction
	Chair: Mario Albrecht, MPI Saarbrücken	
9.15-10.00	Andreas Keller (FEBIT gmbh)	Keynote: Bioinformatics for challenging high-throughput genomics and transcriptomics: the "Iceman's" last secrets
10.00-10.25	Petr V. Nazarov (CRP-Santé)	CoExpress: a tool for co-regulation analysis of mRNA and miRNA
10.25-10.50	Olivier Keunen (CRP-Santé)	Multi-modal imaging and pharmacokinetic modeling shed light on mechanism of action of anti-angiogenic therapy in malignant gliomas
	Chair: Marie-Dominique Devignes, LORIA	
11.15-12.00	Holger Stenzhorn(Uniklinikum Saarland)	Keynote: Towards personalized medicine – From clinical trial data sharing and integration to targeted treatments
12.00-12.25	Fidel Ramírez (MPI Saarbrücken)	BioMyn: A Web Site for Mining Human Gene and Protein Annotations
12.25-12.50	Adrien Coulet (LORIA, Nancy)	A computational method to extract pharmacogenomic relationships from text
till 14.00	Lunch break	



* Activities 2010

Chair: Holger Stenzhorn, Uniklinikum Saarland		
14.00-14.45	Mario Albrecht (MPI Saarbrücken) (biosketch , online)	Keynote: Mining and Prioritizing Molecular Data and Processes for Integrative Systems Biomedicine
14.45-15.10	Francisco Azuaje (CRP Santé)	Linking molecular networks to clinical decision-making support (Download the slides [PDF])
15.10-15.35	Antony Le Béhec (University of Luxembourg)	MIR@NT@N: a framework integrating transcription factors, microRNAs and their targets to identify sub-network motifs in meta-regulation network models (Download the slides [PDF])
15.35-16.00	coffee break	
Chair: Andreas Keller, FEBIT AG		
16.00-16.40	Marie-Dominique Devignes (biosketch , PDF)	Keynote: Research in bioinformatics at the LORIA (Nancy) : high-performance algorithms and knowledge-based approaches for structural systems biology
16.40-17.05	Marc Lensink (IRI, Lille)	Predicting Specificity in Protein-Protein Interactions (Download the slides [PDF])
17.05-17.30	Paul Wilmes (CRP Gabriel Lippmann)	From molecules to ecosystems and back : bioinformatic approaches for Eco-Systems Biology
17.30 - open	Drinks	



* Activities 2010

- Annual transfer of association leadership already done → CRP Gabriel Lippmann
- Strengthen ties with local institutions and from the Greater Region
- Improving online-resources
- Propose additional workshops on more advanced topics («summer school? »)
- Annual symposium 2011
- Workshops in planning (R, Databases, Excel ...)
 - Suggestions are highly appreciated

 **Planned activities 2011**