

Curriculum Vitae - Ola Spjuth

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HOME	Bergsgatan 11 SE 112 23 Stockholm	<i>Phone:</i> +46-70-425 06 28 <i>e-mail:</i> ola@ospjuth.com
DATE OF BIRTH	1977-03-25	
EDUCATION	Uppsala University , Sweden PhD Bioinformatics M.Sc. Molecular Biotechnology (270 ESTC) B.Sc. Computer Science (180 ESTC)	2009 2003 2002
	University of Maryland , USA Computer Science & Business and Management	2001-2002
RESEARCH EXPERIENCE	Uppsala University , Sweden Uppsala Multidisc. Center for Advanced Comp. Science <i>Description:</i> Application Expert.	2010 - present
	Uppsala University , Sweden Department of Pharmaceutical Biosciences <i>Description:</i> Postdoc. <i>Topics:</i> In silico drug safety, eScience for drug discovery, head of the Bioclipse group	2009 - present
	Uppsala University , Sweden Department of Pharmaceutical Biosciences <i>Description:</i> PhD student. <i>Thesis title:</i> Bioclipse: Integration of data and software in the life sciences	2004-2009
	Royal Institute of Technology (KTH) , Stockholm, Sweden Department of molecular biotechnology <i>Description:</i> Design and implementation of an information system (LIMS) for high throughput genotyping	2003-2004
	Uppsala University , Sweden Linnaeus Centre for Bioinformatics <i>Description:</i> Development of a data warehouse for microarray management and analysis.	2003
	Amersham Biosciences (GE Healthcare) , Uppsala, Sweden <i>Description:</i> Masters thesis project <i>Thesis title:</i> Application of Genetic Algorithms to Biosciences Datasets	2002-2003

Uppsala University, Sweden
 Department of Genetics and Pathology 2002-2003
Description: : Research project: Design and implementation of a database
 for cDNA analysis and shotgun assembling.

AWARDS

Eclipse Community Awards, Santa Clara, CA, USA 2010
 Second prize
JAX Innovation Awards, Wiesbaden, Germany 2006
 3rd prize
 Audience Award
Trophées du Libre, Soissons, France 2007
 Jury's special prize
Blue Obelisk Award, Cambridge, UK 2007

ACADEMIC EXPERIENCE

Uppsala University, Sweden
 Lecturer Pharmacology B, 3FF125, 16.5 ESTC 2004-2010
 Lecturer Pharmaceutical Bioinformatics, 3FF018, 7.5 ESTC 2006-2010
 Supervisor, Masters student Jonathan Alvarsson 2007
Thesis title: Design and implementation of a laboratory information system
 for cellular pharmacology.
 Supervisor, Masters student Carl Msak 2008
Thesis title: Structure and interoperability of a database client for cellular
 pharmacology.
 Organizer, Bioclipse Workshop 2007 May 23-25, 2007
 Organizer, "A Course on the Analysis and Informatics of Microarray Data"
 Jan 13-16, 2004
 Organizer, "A Course on the Analysis and Informatics of Microarray Data"
 Jun 10-13, 2003

PUBLICATIONS

1. **O. Spjuth**, M. Eklund, and J.E.S. Wikberg. *An Information System for Proteochemometrics*, CDK News, Vol. **2/2**, 2005.
2. A. Ameur, V. Yankovski, S. Enroth, **O. Spjuth**, J. Komorowski. *The LCB Data Warehouse*. Bioinformatics 2006, **15**;22(8):1024-6
3. **O. Spjuth**, T. Helmus, E. Willighagen, S. Kuhn, M. Eklund, J. Wagener, P. Murray-Rust, C. Steinbeck, and J.E.S. Wikberg. *Bioclipse: an open source workbench for chemo- and bioinformatics*. BMC Bioinformatics 2007, **8**:59.
4. M. Lapins, M. Eklund, **O. Spjuth**, P. Prusis, and J.E.S Wikberg. *Proteochemometric modeling of HIV protease susceptibility*. BMC Bioinformatics. 2008, **10**:181.
5. M. Eklund, **O. Spjuth**, and J.E.S. Wikberg. *The C¹C²: A framework for simultaneous model selection and assessment*. BMC Bioinformatics, 2008, **9**:360
6. J. Wagener, **O. Spjuth**, E. L. Willighagen, and J. E. S. Wikberg. *XMPP for cloud computing in bioinformatics supporting discovery and invocation of asynchronous web services*. BMC Bioinformatics 2009, **10**:279
7. **O. Spjuth**, J. Alvarsson, A. Berg, M. Eklund, S. Kuhn, C. Msak, G. Torrance, J. Wagener, E.L. Willighagen, C. Steinbeck, and J.E.S. Wikberg. *Bioclipse 2: A scriptable integration platform for the life sciences*. BMC Bioinformatics 2009, **10**:397
8. **O. Spjuth** *Bioclipse - integration of data and software in the life sciences*. Doctoral Thesis, Uppsala University, 2009. ISBN 978-91-554-7633-5.

9. M. Eklund, **O. Spjuth**, and J.E.S. Wikberg. *An eScience-Bayes strategy for analyzing omics data*. BMC Bioinformatics 2010, **11**:282
10. **O. Spjuth**, E.L. Willighagen, R. Guha, M. Eklund, and J.E.S. Wikberg. *Towards interoperable and reproducible QSAR analyses: Exchange of data sets*. Journal of Cheminformatics 2010, **2**:5
11. L. Carlsson, **O. Spjuth**, S. Adams, R. C. Glen, and S. Boyer. *Use of historic metabolic biotransformation data as a means of anticipating metabolic sites using MetaPrint2D and Bioclipse*. BMC Bioinformatics 2010, **11**:362
12. E. Willighagen, J. Alvarsson, A. Andersson, M. Eklund, S. Lampa, M. Lapins, **O. Spjuth**, J.E.S. Wikberg. *Linking Open Drug Data to Cheminformatics and Proteochemometrics*. Accepted in Journal of Biomedical Semantics.
13. M. Junaid, M. Lapins, M. Eklund, **O. Spjuth**, J.E.S. Wikberg. *Proteochemometric modeling of the susceptibility of mutated variants of HIV-1 virus to nucleoside/nucleotide analog reverse transcriptase inhibitors*. Submitted.

BOOK CHAPTERS

1. J.E.S. Wikberg, **O. Spjuth**, M. Eklund, and M. Lapins. *Cheminformatics taking Biology into Account: Proteochemometrics*. In: Computational Approaches in Cheminformatics and Bioinformatics. Wiley, 2010. ISBN: 978-0-470-38441-1
2. R. Guha, **O. Spjuth**, and E. Willighagen. *Collaborative Cheminformatics Applications* In: Collaborative Computational Technologies for Biomedical Research. Wiley, *In Press*

POPULAR ARTICLES

1. **O. Spjuth**. *Using Bioclipse to integrate bioinformatics functionality*, EMBNet News, 13(1), 2005.
2. **O. Spjuth**. *Bioclipse: Eine visuelle Open-Source-Plattform für Chemo- und Bioinformatik*, JavaMagazine, 8, 2006.
3. **O. Spjuth**, J. Alvarsson, and D. Krachtus. *Bioclipse 2.0: Life Science setzt auf die Staerken von Eclipse.*, Eclipse Magazine, 4, 2009.
4. **O. Spjuth**, and J. Alvarsson. *Bioclipse 2: Towards integrated biocheminformatics.*, EMBNet News, 15(3), 2009.

ORAL CONFERENCE PRESENTATIONS

1. **O. Spjuth**, M. Eklund. *eScience: Management, integration, analysis, and visualization of data in the life sciences*, 1st Annual CRiSP Conference, Stockholm, 2010.
2. **O. Spjuth**, L. Carlsson. *Building a Flexible Infrastructure for Life Science with Federated Services, Open Source, and Bioclipse*, Bio-IT World Conference and Expo 2009 Europe, Frankfurt, Germany
3. **O. Spjuth**. *Accessing and scripting CDK from Bioclipse*, CDK Workshop 2009, EBI, Hinxton, UK
4. **O. Spjuth**. *Bioclipse: An open source workbench for integrating bioinformatics applications*, 4th EMBRACE Annual General Meeting, 2008, Heidelberg, Germany
5. **O. Spjuth**. *Data and software integration in Bioinformatics*, 8th Swedish Bioinformatics Workshop, 2008, Uppsala, Sweden
6. **O. Spjuth**. *Bioclipse - a workbench for life science*, Chemometrics in the Uppsala Region, 2008, Uppsala, Sweden
7. **O. Spjuth**. *Bioclipse: An open source workbench for integrating bioinformatics applications*, Modern computer tools for the biosciences 2007,

Uppsala, Sweden

8. **O. Spjuth**, and E. L. Willighagen. *Bioclipse & CDK*, CompLife 2007, Utrecht, The Netherlands
9. **O. Spjuth**. *Bioclipse: Present and future*, Bioclipse Workshop 2007, Uppsala Sweden
10. **O. Spjuth**. *Bioclipse, a free, Java-based, open source workbench for chemo- and bioinformatics*, CompLife 2006, Cambridge, UK
11. **O. Spjuth**, M. Eklund. *Bioclipse*, 2005 International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences, Las Vegas, USA

POSTER

PRESENTATIONS

1. **O. Spjuth**. *Bioclipse: Eclipse for the life sciences* EclipseCon 2010, Santa Clara, USA.
2. **O. Spjuth**. *Bioclipse: A graphical workbench for QSAR*, EuroQSAR 2008, Uppsala, Sweden
3. **O. Spjuth**. *An information system for QSAR*, EuroQSAR 2006, Rome, Italy

SOFTWARE

INVOLVEMENTS

Bioclipse - <http://www.bioclipse.net>

Description: : An open source workbench and platform for the life sciences.

The Chemistry Development Kit (CDK) - <http://cdk.sourceforge.net/>

Description: : A Java library for structural chemo- and bioinformatics.

Brunn - <http://brunn.sf.net/>

Description: : A laboratory information system for high throughput screening

XMPP Web Services for Java (xws4j) - <http://xws4j.sourceforge.net/>

Description: : Web services communicating over the XMPP protocol

PROFESSIONAL

EXPERIENCE

Genetta Soft AB, Uppsala, Sweden

2005-present

Position: Partner and consultant in pharmaceutical informatics

Crossover Bioinformatics, Stockholm, Sweden

2003-present

Position: Founder, CEO and consultant in information systems for the life sciences.