

11月27日

## ケモインフォマティクス秋の学校

開催場所: Prof. Kazuo Funatsu (The University of Tokyo)

(Tutorial location) Autumn School of Chemoinformatics in Nara

Chair: Dr. J. S. Brown

主催: 東京大学大学院工学系研究科化学システム工学専攻船津研究室

<http://funatsu.t.u-tokyo.ac.jp>

共催: 日本化学会情報化学部会

<http://cicsj.chemistry.or.jp/index.html>

CAC フォーラム

<http://www.cheminfornavi.co.jp/cac/>

協賛: 日本薬学会

CBI 学会

日時: 2013年11月27~28日

場所: 奈良県立新公会堂能楽堂

アクセス: <http://www.shinkokaido.jp/welcome/>

ケモインフォマティクス分野で世界的に著名な先生方が一同に会してシンポジウムです。創薬などを中心に各先生の新しい視点での取り組みについてのチュートリアル、そしてソフトウェア・ベンダーによる最新のソフトウェア・エキスパートの二本立てで構成しています。ケモインフォマティクスの新しい手法の創薬、材料設計への大いなる可能性を感じて頂きたいと思えます。

【実行委員会】船津 公人(東京大学)、奥野 恭史(京都大学)、金谷 重彦(奈良先端科学技術大学院大学)、長谷川 清(中外製薬)

16:30-17:30

OpenSp

Dr. Brian Mack (Oxera Ltd)

"Progress in Predicting Off-Target and Safety Profiles"

17:30-17:30

Buchholz

Dr. Marcus Gastreich (BioSolveIT GmbH)

"Filling a Gap in Computational Lead Optimization"

"Proposing Fragments and Visualizing their 'Hotspots' to Biologic Partners"

17:30-18:00

Schrodinger

Dr. Cassio Ishiyama (Schrodinger)

"Free energy calculations and rapid empirical scoring functions enable low-

stricture based drug design"

18:30-20:30

開催所: 奈良国立博物館地下レストラン (Nara National Museum)

URL: [http://www.nara-museum.jp/english/index\\_e.html](http://www.nara-museum.jp/english/index_e.html)

11月27日

開会挨拶: Prof. Kimito Funatsu (The University of Tokyo)

[Tutorial session]

Chair Dr. J. B. Brown

10:00~11:00 Prof. Juergen Bajorath (Bonn University)

"Exploring Activity Cliffs in Chemoinformatics and Medicinal Chemistry"

Chair Prof. Juergen Bajorath

11:00~12:00 Dr. J. B. Brown (Kyoto University)

" Systems Chemical Biology via Computational Compound-Protein Interaction  
Prediction: Core Ideas, Translational Validity, and Important Perspectives "

12:00~13:30 Lunch

Chair Prof. Alexandre Varnek

13:30~14:30 Dr. Kiyoshi Hasegawa(Chugai-Pharmaceutical Co.)

"Bayesian statistics for drug design"

Chair Prof. Kurt Varmuza

14:30~15:30 Prof. Johann Gasteiger (Erlangen-Nuernberg University)

"Solved and unsolved problems in chemoinformatics"

15:30~16:00 ----- Break -----

[Expert session by Software Vendors]

Chair Dr. Hiromasa Kaneko

16:00~16:30 Certara

Dr. Brian Masek (Certara USA)

"Progress in Predicting Off Target and Safety Profiles"

16:30~17:00 OpenEye

Dr. Krisztina Boda (OpenEye Scientific Software, Inc.)

"OEToolkits: The Building Blocks for Software Innovation"

17:00~17:30 BioSolveIT

Dr. Marcus Gastreich (BioSolveIT GmbH)

"Filling a Gap in Computational Lead Optimization:

Proposing Fragments and Visualizing their "Happiness" in Binding Pockets"

17:30~18:00 Schroedinger

Dr. Osamu Ichihara (Schroedinger)

"Free energy calculations and rapid empirical scoring functions; insight into  
structure based drug design"

18:30~20:30 懇親会: 奈良国立博物館地下レストラン (Banquet: Nara National Museum )

URL: [http://www.narahaku.go.jp/english/index\\_e.html](http://www.narahaku.go.jp/english/index_e.html)

11月28日

[Tutorial session]

Chair Prof. Gisbert Schneider

9:00~10:00 Prof. Didier Rognan (Strasbourg Univ.)

"Computational methods to profile bioactive ligands"

Chair Prof. Didier Rognan

10:00~11:00 Prof. Gisbert Schneider (ETH Zurich)

"From chaos to order by adaptive molecular design"

11:00~11:15 ----- Break -----

Chair Prof. Shigehiko Kanaya

11:15~12:15 Prof. Takaaki Nishioka (Nara Institute of Science and Technology)

"Mass spectral database MassBank and its application to chemical structure elucidation"

12:15~13:30 Lunch

Chair Prof. Johann Gasteiger

13:30~14:30 Prof. Kurt Varmuza (Technical University of Vienna)

"Variable selection for multivariate models - myth and reality"

Chair Dr. Kiyoshi Hasegawa

14:30~15:30 Prof. Alexandre Varnek (Strasbourg University)

"Chemography concept in Chemical Space analysis"

15:30~16:00 ----- Break -----

[Expert session by Software Vendors]

Chair Dr. Kiyoshi Hasegawa

16:00~16:30 PerkinElmer-Spotfire

Dr. Naotaka Oishi (PerkinElmer Japan)

"Accelerating Research Process by Visual Analytics"

16:30~17:00 Accelrys

Dr. Yuji Takaoka (Accelrys Japan)

"Chemoinformatics tools in Accelrys Enterprise Platform"

17:00-17:30 化学情報協会・英国 CCDC

Dr. Jason Cole (Cambridge Crystallographic Data Centre)

"A New Knowledge-Informed Methodology for Ligand Based Drug Design"

閉会挨拶: Prof. Yasushi Okuno (Kyoto University)