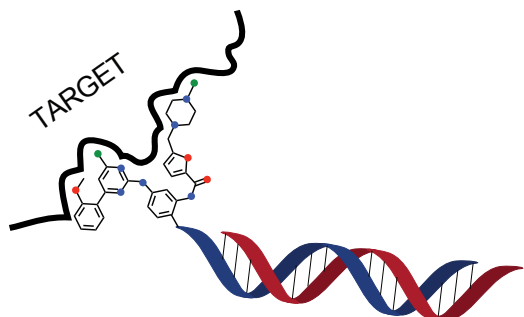


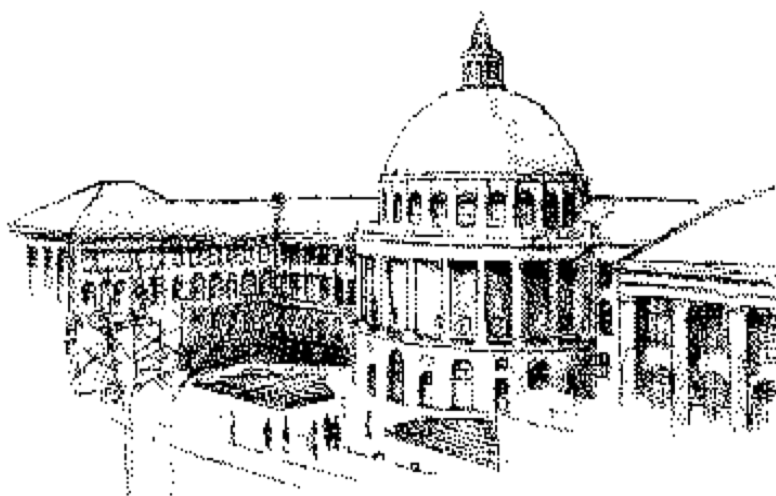
9th International Symposium on DNA-encoded chemical libraries



Zurich, Switzerland
September 5-6, 2019

SYMPOSIUM PROGRAM

www.del-symposium.org



Venue of the Event

ETH Zürich
Institute of Pharmaceutical Sciences
Vladimir-Prelog-Weg 1-5/10
Lecture Hall HCI J3/J7
8093 Zürich
Switzerland

Organizers

Prof. Dr. Dario Neri, ETH Zürich
PD Dr. Jörg Scheuermann, ETH Zürich

Patronage



Thursday - September 5, 2019 - DAY 1

- 09:00 Registration
09:40 Information & Opening

Track 1 Advances in DNA-encoded Chemistry (Chair: Dario Neri & Jörg Scheuermann)

Session in Honour of Dr. Christopher P. Davie

- 10:00 **The Success and Failure of on-DNA Reaction Development and its Application for DEL Synthesis**
Xiaojie Lu / *Shanghai Institute of Materia Medica (China)*
- 10:25 **Development of a Solution-Phase, TaqMan-qPCR Assay for Evaluating DNA-Damage**
Anokha Ratnayake / *Pfizer (USA)*
- 10:50 **Single Electron Processes to Enable DEL Synthesis**
Gary A. Molander / *University of Pennsylvania (USA)*
- 11:15 **Synthetic and Encoding Efficiency in DNA-encoded Libraries**
Dennis Gillingham / *University of Basel (Switzerland)*

Lunch & Poster Session

Track 2 Advances Library Design (Chair: Sylvie Sakata)

- 14:00 **New Selection Methods of DNA-encoded Chemical Libraries**
Xiaoyu Li / *University of Hongkong (China)*
- 14:25 **Library Design and Output in Encoded Library Screening**
Matthew A. Clark / *X-chem (USA)*
- 14:50 **Encoded Chemical Space: Widening the Scope of DNA-compatible Chemistry**
Frederic Berst / *Novartis (Switzerland)*
- 15:15 **Encoded Self-Assembling Chemical Libraries**
Florent Samain / *Philochem (Switzerland)*

Coffee Break & Poster Session

Track 3 Advances in Screening Technologies (Chair: Robert Goodnow)

- 16:25 **Critical Evaluation of in vitro Selection Assays for Encoded Libraries and Activity-based Probes**
Casey J. Krusemark / *Purdue University (USA)*
- 16:50 **Activity-based DNA-encoded Library Screening**
Brian M. Paegel / *Scripps Florida (USA)*
- 17:15 **Development of methods for estimating affinity from DEL selection data**
David Israel / *HitGen (China)* & Justin Hall / *Pfizer (USA)*

Drinking Reception & Poster Session

Dinner

Friday - September 6, 2019 - DAY 2

- 08:30 Registration
09:00 Information & Opening

Track 4 New Applications for DNA-coding (Chair: Guang Yang)

- 09:05 **The journey of a DEL screen at Roche**
Moreno Wichert / *Roche (Switzerland)*
- 09:30 **Unlocking a New Mode of Substrate-selective Inhibition for Insulin-Degrading Enzyme to Block Insulin Cleavage and Allow Glucagon Proteolysis**
Juan Pablo Maianti / *Exo Therapeutics (USA)*
- 09:55 **Affinity-guided Conjugation of DNA to Proteins**
Kurt V. Gothelf / *Aarhus University (Denmark)*

Coffee Break & Poster Session

Track 1 Advances in DNA-Encoded Chemistry (Chair: Yun Ding)

- 10:50 **Development of Novel DNA-compatible Methodologies**
Dongchen Dai / *Amgen Asia (China)*
- 11:15 **Advancing Dual-display Library technology**
Marco Catalano / *ETH Zürich (Switzerland)*
- 11:40 **Unleashing DNA-Encoded Library Technology: Drug Discovery and Beyond**
Letian Kuai / *WuXi AppTec (China)*

Lunch & Poster Session

Track 2 Advances in Library Design (Chair: Barry Morgan)

- 14:00 **Understanding How Library Designs Affect Screening Outcome**
Raphael M. Franzini / *University of Utah (USA)*
- 14:25 **Introducing Dynamic Self-assembling and Single Molecular Detection to DNA-encoded Libraries**
Yixin Zhang / *University of Dresden (Germany)*
- 14:50 **Phage Selection and High-throughput Screening of Cyclic Peptides**
Christian Heinis / *EPFL (Switzerland)*

Coffee Break & Poster Session

Track 5 Success Stories in Drug Discovery (Chair: Dario Neri & Jörg Scheuermann)

- 15:45 **Discovery of IDO1 Inhibitors with a Novel MoA through DNA-Encoded Library Screening**
Lisa Marcaurelle / *GlaxoSmithKline (USA)*
- 16:10 **Identification of nanomolar inhibitor of RuvBL1/2 from a DEL**
Iolanda Micco / *ViperGen (Denmark)*
- 16:35 **Medicines from Encoded Libraries**
Sir Gregory Winter (Nobel Prize Chemistry 2018) / *Trinity College, Cambridge (UK)*
- 17:15 Final remarks / Dario Neri & Jörg Scheuermann

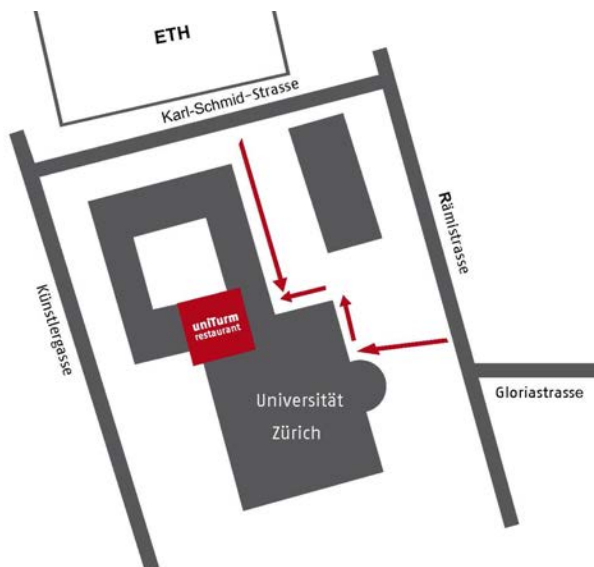
Drinking Reception and Aperò / sponsored by DELopen

Symposium Venue



Dinner Venue

University of Zurich
Restaurant Uniturm
Rämistrasse 71
8006 Zurich



Presented Posters

- P1** Fragment Library Design; Quantitative Analysis of Molecular Shape and Functionality (Vector Efficiency)
Charmaine Chu, Paul Colbon, Phil Cox, Chris Swain and Neil Berry
- P2** Critical evaluation of selection parameters for the implementation of efficient DNA-encoded chemical library selections - *Alessandro Sannino*
- P3** New DEL QC Profiling Automation - *Irakusne Lopez*
- P4** Designer Building Blocks for DNA-Encoded Chemical Libraries - *Christensen, A. B.; Madsen, D.; Sløk, F.; Pedersen, L. K.; Micco, I.; Blakskjaer, P.; Azevedo, C.; Andersen, C.; Kristensen, O.; Hansen, N. J. V.*
- P5** Self-Assembled Bivalent Ligand Complexes (SABLCs) a Universal Platform for Dual Molecular Display of Ligands - *Stefan M. Matysiak, K. Hellmuth, M. De Jong*
- P6** Core polyfunctional building blocks for DNA-encoded library technologies (DEL): status and outlook - *Pashenko A.E., Smaliy R.V., Savych O., Volochnyuk D.M., Ryabukhin S.V.*
- P7** Solid-phase bound DNA - Less instable than expected
Marco Potowski, Verena Kunig, Florian Losch, Andreas Brunschweiger
- P8** Encoded Self-Assembling Chemical (2+1) Libraries: Expanding the Scope of ESAC Technology
Adrian Gironda
- P9** DyNABind - Hit Discovery and Validation - *Francesco Reddavid*
- P10** Ligands hiding in plain sight: Exploring the effect of selection coverage on detection
Kelly A McCarthy, G Joseph Franklin, David R Lancia, Martin Olbrot, Christopher S Kollmann
- P11** Development of encoded combinatorial chemistry for the identification of specific ligands for G-quadruplex DNA structure
Pierre Rieber, Yang Si, Camille Van Wessemael, Remy Lartia, Isabelle Baussanne, Martine Demeunynck, Thomas Lavergne
- P12** Micellar Brønsted Acid-Mediated Synthesis of DNA-Tagged Heterocycles
Mateja Klika Škopić, Katharina Götte, Christian Gramse, Sabrina Pospich, Stefan Raunser, Ralf Weberskirch, Andreas Brunschweiger
- P13** The criteria for capping agents selection for DNA-encoded library technologies (DEL) needs
Smaliy R.V., Pashenko A.E., Savych O., Volochnyuk D.M., Ryabukhin S.V.
- P14** Diversity-Based DEL Development and Construction
Xuan Wang, Jiaxiang Liu, Min Cheng, Dongcheng Dai, Xiaojie Lu
- P15** A Hierarchical Structural Similarity Search Approach for Large-Scale DNA-Encoded Libraries
Hongyao Zhu
- P16** Synthesis of C-3-Alkylated Indoles on DNA via Indolyl Alcohol Formation Followed by Metal-Free Transfer Hydrogenation - *Pinwen Cai, Guanyu Yang, Lanzhou Zhao, Jinqiao Wan, Jin Li and Guansai Liu*
- P17** *The Development of DNA-Encoded Library in WuXi - Ke Li*
- P18** On-DNA Decarboxylative Arylation: The Merger of Photoredox with Nickel Catalysis in Water
Dominik K. Kölmel, Jiang Meng, Mei-Hsuan Tsai, Jiamin Que, Richard P. Loach, Thomas Knauber, Jinqiao Wan, Mark E. Flanagan
- P19** Quantitative Comparisons of Enrichment from DNA-Encoded Library Selections - *John C. Faver*
- P20** *WuXi DEL New Capability - Pre-selection QC & Hit Confirmation - Wenji Su*
- P21** Identification of Cyclic Peptoid Inhibitors of Skp2 Using a Vast DNA-Encoded One-Bead One-Compound Library - *Min Hyeon Shin, Jun Hyung Park, Hyun-Suk Lim*
- P22** *Y-shaped DNA-Encoded Chemical Library allows Dynamic Recombination of Fragment-Based Library - Meiyang Cui, Francesco V. Reddavid, Weilin Lin, Naiqiang Fu, Helena Andrade, Michael Thompson, Yixin Zhang*
- P23** *DEL Out of Water - Dillon Flood and Phil Dawson*

Symposium Follow-up

The Journal "**BBRC**" (Biochemical and Biophysical Research Communications), published by ELSEVIER, has offered to serve as **official publication medium of the Symposium**.

A Special Issue on DEL technology will be issued in early 2020 with peer-reviewed communications on DNA-Encoded Library Technology.

The Special Issue will be guest-edited by Ernesto Carafoli, Dario Neri and Jörg Scheuermann

Submission of manuscripts by Symposium attendees is strongly encouraged, please see: <https://www.journals.elsevier.com/biochemical-and-biophysical-research-communications>

Deadline for submission is 30 November 2019.

If you are interested in submitting a manuscript, please indicate your interest by sending an email to:

del-symposium2019@pharma.ethz.ch



ELSEVIER

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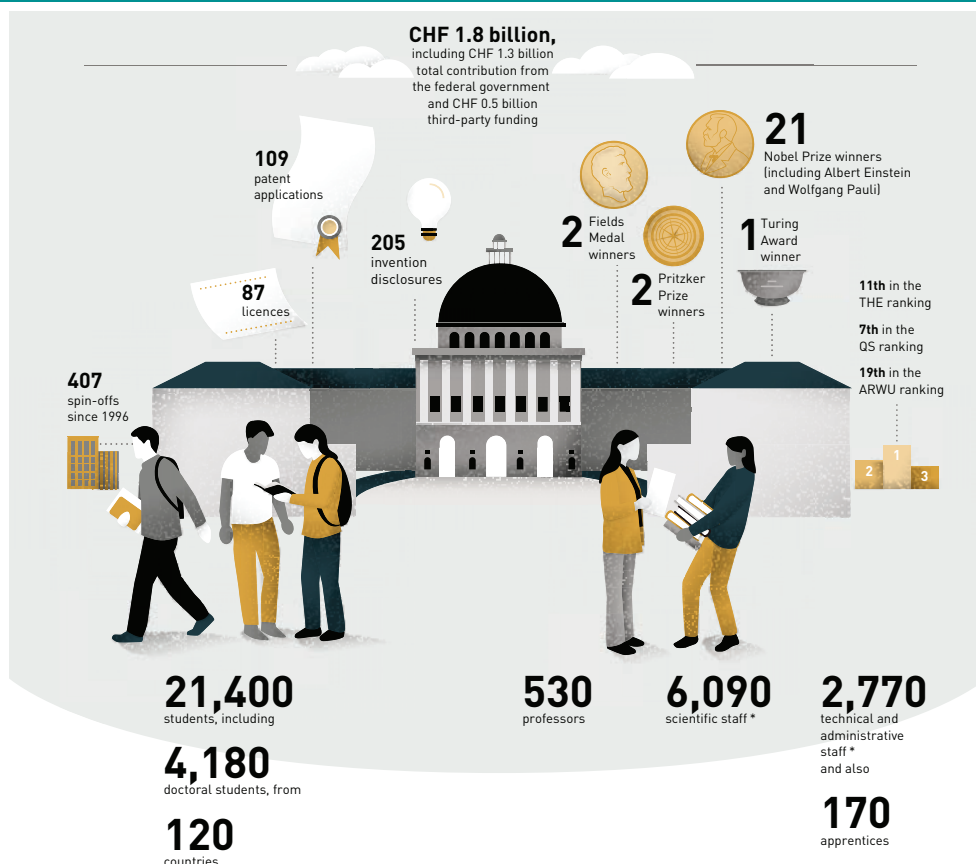
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ETH Zürich - facts and figures



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