

# IC HDX

## CONFERENCE PROGRAM

16<sup>th</sup>–17<sup>th</sup> May 2017



### Tuesday May 16<sup>th</sup> 2017: IC HDX Conference Day 1

08:00	Transport from Gothia Towers Hotel to AstraZeneca Conference Center
08:30–09:00	Arrival and Registration
09:00–09:15	<b>Tineke Papavoine</b> (AstraZeneca R&D) – Opening of IC HDX
09:15–10:00	<b>Walter Englander</b> (University of Pennsylvania) – HX MS: Past, present, and future
10:00–10:45	<b>Perdita Barran</b> (University of Manchester) – Monitoring Allosteric processes and Protein Dynamics due to cofactor and ligand binding and to PTMs with HDX-MS and IM-MS
10:45–11:15	<i>Coffee: Mounting of Posters</i>
11:15–11:45	Sponsored scientific presentation – <b>Tyler Hageman</b> (University of Kansas) & <b>Jeff Morrow</b> (HDEaminer) – New frontiers in HX-MS data visualization and interpretation in biopharmaceutical applications
11:45–12:05	<b>Eric Underbakke</b> (Iowa State University) – Illuminating Ca <sup>2+</sup> -induced scaffolding and kinase regulation mechanisms of Pyk2 by HDX-MS
12:05–12:25	<b>Christoph Borchers</b> (University of Victoria – Genome BC Proteomics Centre) Comparative Antibody Structural Analysis by Top-Down and Bottom-Up HDXMS
12:25–12:45	<b>Jeppe Buur Madsen</b> (University of Southern Denmark) – Probing the intracellular structure of $\alpha$ -synuclein by in-cell hydrogen/deuterium exchange
12:45–13:45	<i>Lunch</i>
13:45–14:30	<b>Kasper Rand</b> (University of Copenhagen) – Expanding the HDX-MS toolbox
14:30–14:50	<b>Ganesh Anand</b> (National University of Singapore) – Epitope and paratope mapping of virus-antibody complexes
14:50–15:10	<b>Thomas Wales</b> (Northeastern University) – Probing the conformational preferences for the Tec-family tyrosine kinase BTK using NMR, HDX MS, and a domain building block approach
15:10–15:30	<b>Florian Georgescauld</b> (French National Center for Scientific Research) – GroEL/ES chaperonin modulates the mechanism and accelerates the rate of TIM-barrel domain folding
15:30–16:00	<i>Coffee</i>
16:00–16:30	Sponsored scientific presentation – <b>Yoshitomo Hamuro</b> (SGS Life) & <b>Stephen Coales</b> (LEAP technologies) – The devil in the detail for HDX-MS Practice
16:30–17:00	Flash posters presentations: <b>Alfonso Espada</b> : Automated Hydrogen/Deuterium Exchange Platform for Small Molecule Drug Discovery <b>Daniel Weltz Pedersen</b> : ScramblR: a tool for automated data processing of ETD spectra for optimization of mass spectrometric settings to avoid H/D scrambling <b>Joey Sheff</b> : Novel allosteric pathway of Eg5 regulation identified through multivariate statistical analysis of HX-MS ligand screening data <b>Rebecca Burnley</b> : Combining HDX-MS with computational methods to interrogate the effects of binding drug discovery hit compounds to soluble and membrane proteins <b>John Burke</b> : Using HDX-MS to probe the regulation of peripheral membrane signaling complexes and their role in cancer and immune disorders
17:00–17:45	Poster session: Presentation of odd numbers of posters
17:45–18:30	Poster session: Presentation of even numbers of posters
18:30	Transport to Conference dinner, co-hosted by City of Gothenburg
22:00	End of day 1: Walking to Gothia Towers Hotel

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### Wednesday May 17<sup>th</sup> 2017: IC HDX Conference Day 2

08:15	Transport from Gothia Towers Hotel to AstraZeneca Conference Center
08:45–09:00	<b>Kasper Rand</b> (University of Copenhagen) – Opening day 2
09:00–09:45	<b>John Engen</b> (Northeastern University) – Peak Capacity
09:45–10:30	<b>Thomas Jørgensen</b> (University of Southern Denmark) – Characterization of non-native protein oligomers by HDX-MS
10:30–11:00	<i>Coffee</i>
11:00–11:30	Sponsored scientific presentation – <b>Jing Fang &amp; Ying Qing Yu</b> (Waters Corporation) – Higher-Order Structure Study of Biosimilar mAb and Antibody Drug Conjugate
11:30–11:50	<b>Leland Mayne</b> (University of Pennsylvania) – Protein folding studied by HX pulse labeling
11:50–13:00	<i>Lunch</i>
13:00–13:45	<b>Patrick Griffin</b> (The Scripps Research Institute) – Differential HDX to Probe Ligand-Mediated Receptor Signaling
13:45–14:05	<b>Esben Trabjerg</b> (University of Copenhagen) – HDX-MS reveals a common binding surface for endogenous peptide- and protein ligands to the Sortilin receptor
14:05–14:15	<b>Rebecca Rae (AstraZeneca R&amp;D)</b> – Poster Prizегiving
14:15–14:45	<i>Coffee: Demounting of Posters</i>
14:45–15:05	<b>Derek Wilson</b> (York University) – Millisecond HDX enables structure-guided drug design for the disordered protein targets of neurodegenerative disease and cancer
15:05–15:25	<b>Zainab Ahdash</b> (King's College London) – Exploring the synergistic effects of lipids and drugs on a multidrug efflux transporter using hydrogen deuterium exchange mass spectrometry
15:25–15:45	<b>Ulrik Hvid Mistarз</b> (University of Copenhagen) – Studying Protein-Protein Complexes by Gas-Phase Hydrogen/Deuterium Exchange Mass Spectrometry (Gas-Phase HDXMS)
15:45–16:00	<b>David Schriemer</b> (University of Calgary) – Summary & IC HDX 2019
16:00	End of meeting: Transport to Gothia Towers Hotel