Program

Tuesday, May 1st

CNPN Trainee Symposium

11:30–12:00  Registration

12:00–13:00  Lunch

13:00–13:10  Daniel Scott; P45 – Noll2 is a novel RBP at the nexus of RNA and DNA metabolism.


Find out more at thermofisher.com/proteomics
13:30–13:40  **Chongyang Li; P31** – Uncovering the mechanisms of action of SUMO E3 ligase PIAS1 by quantitative proteomics analysis.

13:40–13:50  **Fraser Johnson; P21** – Evidence for differential protein-protein interactions as a mechanism underlying cell type-specific regulation of alternative last exon splicing by CDK12.

13:50–14:00  **Ramy Malty; P33** – PINK1/PARKIN activate nuclear factor κB (NFκB) via Iκκ upon mitochondrial dysfunction: potential role of microglial neuroinflammation in Parkinson’s disease.

14:00–14:10  **Reza Pourhaghighi, page 42** – Brain protein interaction network (B-PIN) revealed by large-scale biochemical profiling mass spectrometry (BP/MS).

14:10–14:20  **Alexandra Sebastien; P46** – Organize or perish: insights and advices from a large scale proteomic study.

14:20–14:30  **Kathleen Dolan; P13** – Unraveling the mystery behind rhodoquinone (RQ) biosynthesis.

14:30–15:00  **Break**

15:00–15:10  **Payman Samavarchi-Tehrani; P44** – A versatile lentiviral delivery toolkit for proximity-dependent biotinylation in diverse cell types.

15:10–15:20  **Zhiyu (Katherine) Zhao; P54** – Greet the neighbours: using BioID to identify proximal and interacting proteins of the insertase YidC.

15:20–15:30  **Boris Dyakov; P14** – A high resolution spatial map of nuclear body architecture.

15:30–15:40  **Ji-Young Youn; P52** – Development of methodologies to identify proteins associated with specific RNAs.
Program

Tuesday, May 1st

CNPN Trainee Symposium

15:40–15:50 Sophie Moggridge; P36 – Extending the compatibility of the SP3 paramagnetic bead processing approach for proteomics.

15:50–16:00 Nicole Unterlander; P49 – Comparison of membrane-based SDS depletion strategies ahead of peptide and protein analysis by mass spectrometry.

16:00–16:10 Annie Ha; P18 – Identification and quantification of peptides in non-model organisms through shotgun proteomics.

16:10–16:20 Shubham Gupta; P17 – Chromatogram alignment strategies for large-scale SWATH-MS proteomics studies.

16:20–16:30 Max Frank; P15 – Large-scale analysis of proteoform-specific complex formation by complex-centric proteome profiling via SEC-SWATH-MS.

16:30–16:40 Linh Nguyen; P38 – Accurate assessment of peptide differential expression using a bayesian inference approach.

16:40–16:50 Ron Blutrich; P5 – A linear programming approach to deconvolving MS2 maps in scanning-quadrupole DIA experiments.

16:50–17:20 Break

17:20–18:00 Lesley Anne Kane – Academia to Industry; a career shift. Bio on page 21

18:00–18:40 Ben Dubin-Thaler – From biophysicist to biobus driver; a scientist’s journey in the world of science education. Bio on page 21

18:40– Dinner & Drinks in Gastown
**Wednesday, May 2nd**

### CNPN Trainee Symposium

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>8:20–9:00</td>
<td>Breakfast</td>
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<tr>
<td>9:00–9:40</td>
<td>Breakfast</td>
<td>Anne-Claude Gingras</td>
<td>From hundreds to millions: following my path in the protein world. Bio on page 22</td>
</tr>
<tr>
<td>9:40–10:20</td>
<td></td>
<td>Chris Barnes</td>
<td>Be curious, be nice to people, and knock on all the doors you can find. Bio on page 22</td>
</tr>
<tr>
<td>10:20–10:40</td>
<td>Break</td>
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<tr>
<td>10:40–11:00</td>
<td></td>
<td>Christopher Adams</td>
<td>My biased perspective of career options and challenges for graduate students in MS. Bio on page 23</td>
</tr>
<tr>
<td>11:00–12:00</td>
<td>Panel Discussion</td>
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<tr>
<td>12:00–13:00</td>
<td>Lunch with Round Tables</td>
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### 10th CNPN Annual Meeting

<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>13:00–13:20</td>
<td>Opening and Welcome</td>
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<tr>
<td><strong>13:20–14:00</strong></td>
<td><strong>Opening and Welcome</strong></td>
<td>Judit Villén, University Washington</td>
<td>New technologies to interrogate the dynamics and function of the phosphoproteome. Bio on page 25</td>
</tr>
<tr>
<td>14:00–14:20</td>
<td>Gabriela Cohen Freue</td>
<td></td>
<td>Can we predict protein from mRNA?</td>
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<tr>
<td>14:20–14:40</td>
<td>Audrey Astori</td>
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<td>Protein interaction mapping of lymphoid master regulators using BioID.</td>
</tr>
<tr>
<td>14:40–15:00</td>
<td>Philipp Lange</td>
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<td>Developing a proteogenomics pipeline for personalized treatment stratification in pediatric cancer.</td>
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</tbody>
</table>
Program

Wednesday, May 2\textsuperscript{nd}

10\textsuperscript{th} CNPN Annual Meeting

15:00 – 15:20 **Break**
- SickKids Proteomics, Analytics, Robotics & Chemical Biology Centre (SPARC) Coffee Break

15:20 – 15:40 **Hannes Röst** – Personalized profiling of diabetes: Longitudinal multi-omics profiles provide insight into insulin resistance.

15:40 – 16:00 **Lightning Poster Session**

16:00 – 17:00 **KEYNOTE**
- **Akhilesh Pandey**, Johns Hopkins
  Dissecting interactomes and signaling pathways using biotinylation site identification technology (BioSITe).
  Bio on page 78

17:00 – 19:30 **Reception & Poster Session**
### Thursday, May 3rd

**10th CNPN Annual Meeting**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30–8:30</td>
<td><strong>Breakfast</strong></td>
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<tr>
<td>8:30–9:10</td>
<td><strong>Chris Overall</strong>, UBC - MALT1 paracaspase regulation of linear ubiquitination and therapeutic rescue. Bio on page 28</td>
</tr>
<tr>
<td>9:10–9:30</td>
<td><strong>Marie Brunet</strong> - Large-scale proteomic analysis of alternative open reading frames reveals novel proteins, from new ubiquitin variants to the Wnt signaling pathway.</td>
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<tr>
<td>9:30–9:50</td>
<td><strong>Winner of Trainee Symposium Election</strong> – Talk 1</td>
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<tr>
<td>10:10–10:30</td>
<td><strong>Break</strong></td>
</tr>
<tr>
<td>10:30–10:50</td>
<td><strong>Jennifer Geddes-McAlister</strong> - Quantitative proteomics of the host-pathogen interplay during Salmonella Typhimurium infection.</td>
</tr>
<tr>
<td>10:50–11:10</td>
<td><strong>Christoph Schräder</strong> - A combined metabolic/chemical labeling approach for deep proteome quantification that enables alternative digestion methods.</td>
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<tr>
<td>11:10–12:10</td>
<td><strong>KEYNOTE</strong></td>
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<td></td>
<td><strong>Neil Kelleher</strong>, Northwestern University</td>
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<td></td>
<td>Mapping mutation/modification cross talk on KRAS4b in colorectal cancer with denaturing top-down proteomics. Bio on page 18</td>
</tr>
<tr>
<td>12:10–14:00</td>
<td><strong>Lunch &amp; Poster Sessions</strong></td>
</tr>
</tbody>
</table>
Program

Thursday, May 3rd

10th CNPN Annual Meeting

14:00–14:40  Leonard Foster, UBC  
Testing hypotheses using tissue-specific interactomes.

14:40–15:00  Geoffrey Hesketh  
Combining BioID and CRISPR-Cas9 gene deletion to reveal mechanisms of lysosomal cell growth control.

15:00–15:20  Winner of Trainee Symposium Election – Talk 2

15:20–15:40  Marlene Oeffinger  
Using proteomics to investigate dynamic interactomes and variances along gene expression pathways.

15:40–16:00  Break

16:00–16:20  Shideh Mirhadi  
Proteome Signature with Prognostic Impact in Non-Small Cell Lung Carcinoma.

16:20–17:00  Michael MacCoss, University Washington  
Having your cake and eating it too: Can proteomics be both comprehensive and quantitative? 
Bio on page 33

17:20–17:40  CNPN Annual General Meeting

17:40–18:00  Poster Prices

18:00–19:00  CNPN Distinguished Scientist Award Presentation and Talk

Gilles Lajoie, University of Western Ontario  
My Unexpected Adventures in Biological Mass Spectrometry and Proteomics: from Chemistry to Biology.  
Bio on page 15

19:20–21:00  Speakers Dinner
Friday, May 4th

10th CNPN Annual Meeting

7:30–8:30 Breakfast

8:30–9:10 Thomas Kislinger, University of Toronto
Detection of ovarian cancer recurrence using a novel integrated proteomics approach.
Bio on page 34

9:10–9:30 Mari DeMarco – Adapting proteomics for patient care.

9:30–9:50 Winner of Trainee Symposium Election – Talk 3


10:10–10:30 Break


10:50–11:10 Jerry Tien – The regulation of alternative mRNA splicing by CDK12 supports the tumorigenic potential of breast cancer cells.

11:10–12:10 KEYNOTE

Jennifer van Eyk, Cedars-Sinai
Medicine and Me: the role of proteomics in precision health.
Bio on page 19

12:10–12:50 Lunch
## Program

### Friday, May 4th

#### BCPN Symposium

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<thead>
<tr>
<th>Time</th>
<th>Speaker/s</th>
<th>Topic</th>
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<tbody>
<tr>
<td>13:30–14:10</td>
<td><strong>KEYNOTE</strong></td>
<td>Richard Smith, Pacific Northwest National Laboratory</td>
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<td>New proteomics capabilities based upon SLIM ion mobility-mass spectrometry.</td>
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<td>Bio on page 20</td>
</tr>
<tr>
<td>14:10–14:30</td>
<td>Craig Kerr</td>
<td>Understanding the human antiviral protein network.</td>
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<tr>
<td>14:30–14:50</td>
<td>Kevin Kovalchik</td>
<td>RawQuant: An efficient and open source tool for parsing and quantification of mass spectrometer data.</td>
</tr>
<tr>
<td>14:50–14:55</td>
<td>Christoph Borchers, CSO, MRM Proteomics</td>
<td>Precision proteomics offered at MRM Proteomics.</td>
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<tr>
<td>14:55–15:00</td>
<td>Ash Anwar, Scientist, Molecular You</td>
<td>Quantitative proteomics for personalized health using an interactive data platform.</td>
</tr>
<tr>
<td>15:00–15:05</td>
<td>Steven Pelech, President and CSO, Kinexus Bioinformatics Co.</td>
<td>Tracking cell signalling protein expression, post-translation modifications and activation with antibody microarrays.</td>
</tr>
<tr>
<td>15:05–15:10</td>
<td>Emilie Lameignere, Senior Scientist, AbCellera</td>
<td>Antibody discovery for the next generation of therapeutics.</td>
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<tr>
<td>15:10–15:30</td>
<td><strong>Break</strong></td>
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<td>Bio on page 39</td>
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</table>
15:55–16:15  **Michael Hamilton** – Synthesis and characterization of a photoaffinity ligand to probe the putative binding site of ivacaftor on mutant CFTR.

16:15–16:35  **Nestor Solis** – Multi-omic protease analysis of differentiated macrophages.

16:35–17:00  **Christoph Borchers**, University of Victoria  
Quantitation of cell signaling proteins by immuno-MALDI.  
Bio on page 41

17:00–17:10  **Break**

17:10–17:40  BCPN Annual General Meeting

17:40–19:30  Gala Dinner
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Venue Map

Ground level

Pre-symposium Reception, poster sessions & breaks

Talks

Family Room
Location Map

CNPN 2018 Venue
SFU Harbour Centre, 515 W Hastings St

BCPN Gala Dinner
Morris J Wosk Centre for Dialogue (WCC 420), 580 W Hastings St

Delta Hotel
550 W Hastings St

Hotel Ramada
1221 Granville Street
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