

## Program Overview

Day 1 (September 8th)		Day 2 (September 9th)	
8:30 – 9:15	Registration and coffee	8:30 – 9:15	
9:15 – 9:30	Welcome Notes and Introduction of the Keynote Speaker	9:15 – 9:30	Introduction of the Keynote Speaker
	Session 1 – Epigenetic mechanisms and evolution Host: Andrea Hinas (ICM-UU)		Session 3 - Epigenetics and Reproduction Host: Carlos Guerrero Bosagna (IOB-UU)
9:30 – 10:15	Marc Bühler (FMI, Keynote speaker)	9:30 – 10:15	Rick Pilsner (Wayne St Uni, CRU Keynote speaker)
10:15 – 10:30	Kanwal Tariq (Stockholm Uni)	10:15 – 10:30	Christian Sommerauer (KI – SciLifeLab)
10:30 – 10:45	Keyi Geng (KI – SciLifeLab)	10:30 – 10:45	Cyrinne Achour (Umeå Uni)
10:45 – 11:15	<i>Fika</i> (with poster viewing)	10:45 – 11:15	<i>Fika</i> (with poster viewing)
11:15 – 11:45	Vaishali Katju (UU, invited speaker)	11:15 – 11:45	Anita Öst (LiU, invited speaker)
11:45 – 12:00	Silvia Remeseiro (Umeå Uni)	11:45 – 12:00	John Lees (UU)
12:00 – 12:15	Gianluca Zambanini (LiU)	12:00 – 12:15	Maike Bensberg (LiU)
12:15 – 12:30	Carlos Gallardo Dodd (KI – SciLifeLab)	12:15 – 12:30	Björn Gylemo (LiU)
12:30 – 13:30	Lunch (with poster viewing)	12:30 – 13:30	Lunch (with poster viewing)
	Session 2 - Epigenetic effects of environmental factors Host: Joëlle Rüegg (IOB-UU)		Session 4 - Epigenetic Biomarkers Host: Parisa Norouzitallab (IOB-UU)
13:30 – 14:00	Katharina Gapp (ETH Zurich, invited speaker)	13:30 – 14:00	Jorge Manuel de Oliveira Fernandes (Nord Uni, invited speaker)
14:00 – 14:15	Fábio Pértille (UU)	14:00 – 14:15	Germán Martínez Arias (SLU)
14:15 – 14:30	Melisa Gómez Velázquez (Helmholtz Inst.)	14:15 – 14:30	Johan Henriksson (Umeå Uni)
14:30 – 14:45	Andrea Cediel-Ulloa (UU)	14:30 – 15:00	Karin Broberg (KI, invited speaker)
14:45 – 15:15	<i>Fika</i> (with poster viewing)	15:00 – 15:30	<i>Fika</i> (with poster viewing)
15:15 – 15:45	Oskar Karlsson (SU, invited speaker)	15:30 – 15:45	Guido Basil (KI)
15:45 – 16:00	Marti Quevedo (Umeå Plant Sci. Center)	15:45 – 16:00	Ewoud Ewig (KI)
16:00 – 16:35	Sponsor presentations: Bionordika, IDT	16:00 – 16:15	Sponsor presentations: Diagenode



## Detailed program

### Day 1 – September 8<sup>th</sup> 2022

<i>Time</i>	
<b>8:30 – 9:15</b>	<b>Registration and coffee</b>
<b>9:15 – 9:30</b>	<b>Welcome Notes and Introduction of the Keynote Speaker</b>
	<p align="center"><b>Session 1 – Epigenetic mechanisms and evolution</b>  <b>Host:</b> Andrea Hinas (Department of Cell and Molecular Biology - Uppsala University)</p>
<b>9:30 – 10:15</b>	<p align="center">RNAi-mediated transgenerational epigenetic gene silencing  <b>Marc Bühler (Friedrich Miescher Institute, Keynote speaker)</b></p>
<b>10:15 – 10:30</b>	<p align="center">Non-coding RNAs from the rDNA intergenic repeats regulate rRNA gene transcription  <b>Kanwal Tariq (Stockholm University)</b></p>
<b>10:30 – 10:45</b>	<p align="center">Unexpected CRISPR/Cas9 editing consequences when targeting noncoding genomic regions  <b>Keyi Geng (Karolinska Institute – SciLifeLab)</b></p>
<b>10:45 – 11:15</b>	<b><i>Fika (with poster viewing)</i></b>
<b>11:15 – 11:45</b>	<p align="center">Through the lens of experimental evolution: a genome-wide view of the spontaneous rate, spectrum and stability of epimutations in a metazoan  <b>Vaishali Katju (Uppsala University, invited speaker)</b></p>
<b>11:45 – 12:00</b>	<p align="center">Rewiring of the promoter-enhancer interactome and regulatory landscape in glioblastoma orchestrates gene expression underlying the neurogliomal synaptic communication  <b>Silvia Remeseiro (Umeå University)</b></p>
<b>12:00 – 12:15</b>	<p align="center">A New CUT&amp;RUN Low Volume-Urea (LoV-U) protocol uncovers Wnt/b-catenin tissue-specific genomic targets  <b>Gianluca Zambanini (Linköping University)</b></p>
<b>12:15 – 12:30</b>	<p align="center">Cell type-specific deployment of codons and anticodons via combined single-cell ATAC and RNA sequencing  <b>Carlos Gallardo Dodd (Karolinska Institute – SciLifeLab)</b></p>
<b>12:30 – 13:30</b>	<b><i>Lunch (with poster viewing)</i></b>
	<p align="center"><b>Session 2 - Epigenetic effects of environmental factors</b>  <b>Host:</b> Joëlle Rüegg (Department of Organismal Biology – Uppsala University)</p>
<b>13:30 – 14:00</b>	<p align="center">Stress signatures in sperm  <b>Katharina Gapp (ETH Zurich, invited speaker)</b></p>
<b>14:00 – 14:15</b>	<p align="center">The neuro-epigenome of piglet's brain is differentially affected by their maternal environment and behaviour  <b>Fábio Pértille (Uppsala University)</b></p>
<b>14:15 – 14:30</b>	<p align="center">Paternal mitochondrial function influences offspring metabolism  <b>Melisa Gómez Velázquez (Helmholtz Institute)</b></p>
<b>14:30 – 14:45</b>	<p align="center">Functional impact of methylmercury-associated DNA methylation – from epidemiological observations to experimental evidence  <b>Andrea Cediel-Ulloa (Uppsala University)</b></p>
<b>14:45 – 15:15</b>	<b><i>Fika (with poster viewing)</i></b>

15:15 – 15:45	The Exposome and Paternal Epigenetic Inheritance <b>Oskar Karlsson (Stockholm University, invited speaker)</b>
15:45 – 16:00	Discovery of plant chromatin regulators responding to chloroplast signals <b>Marti Quevedo (Umeå Plant Science Center)</b>
16:00 – 16:35	<b>Sponsor presentations: Bionordika, IDT</b>
19:00 – 22:00	<b>EpiChrom 2022 official dinner, Uppsala Castle (Slottet)</b>

## Day 2 – September 9<sup>th</sup> 2022

Time	
9:15 – 9:30	<b>Introduction of the Keynote Speaker</b>
	<b>Session 3 - Epigenetics and Reproduction</b> Host: Carlos Guerrero Bosagna (Department of Organismal Biology – Uppsala University)
9:30 – 10:15	Do men matter? Preconception phthalates, sperm epigenetic aging and early-life development <b>Rick Pilsner (Wayne State University, CRU Keynote speaker)</b>
10:15 – 10:30	Are female sex hormones the key in preventing obesity-induced liver diseases? <b>Christian Sommerauer (Karolinska Institute – SciLifeLab)</b>
10:30 – 10:45	Mechanisms of METTL3 in breast cancer and metastasis <b>Cyrinne Achour (Umeå University)</b>
10:45 – 11:15	<b>Fika (with poster viewing)</b>
11:15 – 11:45	Dietary sugar shifts mitochondrial metabolism and small RNA biogenesis in sperm <b>Anita Öst (Linköping University, invited speaker)</b>
11:45 – 12:00	Stressing the symbionts: Investigating the influence of developmental metabolic stress upon mitochondrial physiology and epigenomics <b>John Lees (Uppsala University)</b>
12:00 – 12:15	<u>T</u> andem <u>R</u> epeat <u>E</u> xpansions on the <u>X</u> -chromosome (TREX): A high-resolution and high-throughput screening method for skewed X-chromosome inactivation <b>Maike Bensberg (Linköping University)</b>
12:15 – 12:30	A landscape of X-inactivation during human T-cell development <b>Björn Gylemo (Linköping University)</b>
12:30 – 13:30	<b>Lunch (with poster viewing)</b>
	<b>Session 4 - Epigenetic Biomarkers</b> Host: Parisa Norouzitallab (Department of Organismal Biology – Uppsala University)
13:30 – 14:00	Epigenetics of muscle growth in fish and identification of epimarkers with potential application in aquaculture <b>Jorge Manuel de Oliveira Fernandes (Nord University, invited speaker)</b>
14:00 – 14:15	Understanding the role of small RNAs in the orchestration of the epigenetic, transcriptional, and translational landscape during the maturation of plant gametes <b>Germán Martínez Arias (Swedish University of Agricultural Sciences)</b>
14:15 – 14:30	Single-cell Multiomics: What can be said about the cell cycle? <b>Johan Henriksson (Umeå University)</b>

<b>14:30 – 15:00</b>	Epigenetics of common toxicants <b>Karin Broberg (Karolinska Institute, invited speaker)</b>
<b>15:00 – 15:30</b>	<b><i>Fika (with poster viewing)</i></b>
<b>15:30 – 15:45</b>	Identification of novel factors controlling non genetic cell plasticity in Chronic Myeloid Leukemia <b>Guido Baselli (Karolinska Institute)</b>
<b>15:45 – 16:00</b>	Extensive evidence for aberrant B cell hypomethylation in relapsing-remitting Multiple Sclerosis <b>Ewoud Ewig (Karolinska Institute)</b>
<b>16:00 – 16:15</b>	<b>Sponsor presentations: Diagenode</b>

## Sponsored by

