



Karolinska
Institutet

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RNA Sequencing Seminar by **Karolinska Institutet** and **Illumina** *for the Allergy, Immunology and Inflammation (Aii) doctoral education program*

Next generation sequencing (NGS) has led a revolution in life science research and has driven breakthrough findings leading to a deeper understanding of genomes, transcriptomes and biological processes in health and disease.

Join Karolinska Institutet and Illumina for a half-day seminar introducing this powerful technology. During the seminar you will learn the basics of NGS and get an insight into the wide array of applications it enables. Presentations by invited speakers will further illuminate how NGS can be applied in multiple areas.

The event also offers an opportunity to speak one-on-one with Illumina specialists on how next generation sequencing can impact your work on DNA and RNA applications.

Date: **Wednesday 8 October 2014**

Time: **13 – 16**

Venue: **Westinrummet Alfred Nobels Allé 8, Huddinge (7th floor)**

Agenda

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|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.00 – 13.05 | Welcome (Tülay Lindberg and Pawel Zajac) |
| 13.05 – 13.35 | NGS 101: An introduction to Illumina next generation sequencing technology (Pawel Zajac, Nordic Marketing Technical Specialist, Illumina) |
| 13.35 – 14.05 | The wide array of applications on Illumina sequencing platforms (Pawel Zajac, Nordic Marketing Technical Specialist, Illumina) |
| 14.05 – 14.25 | RNA Sequencing – Identification of genes involved in the pathogenesis of periodontitis (Anna Lundmark, Department of Dental Medicine, Karolinska Institutet) |
| 14.25 – 14.50 | <i>Coffee break</i> |
| 14.50 – 15.10 | Spatially resolved gene expression analysis of single cells (Michaela Asp, SciLifeLab Stockholm) |
| 15.10 – 15.30 | RNA Sequencing – HPV and cancer (Emilie Hultin, Department of Laboratory Medicine, Karolinska Institutet) |
| 15.30 – 15.50 | Transcription profiling to find epigenetic factors in hematopoiesis (Punit Prasad, Department of Bioscience and Nutrition, Karolinska Institutet) |
| 15.50 – 16.00 | Concluding remarks (Tülay Lindberg and Pawel Zajac) |
| 16.00 – | <i>Refreshments/mingle time and poster session</i> |

WELCOME!

Please register via email: pzajac@illumina.com