

Hands-on Course in

Nanopore Sequencing

VENUE Aalborg Denmark **DATE** 4-5th of February 2019

Course plan updated 2018.12.17

(can be subject to changes)

Day 1 | 4th of February 2019

Time	Content	Responsible
10.00-10.45	Welcome Presentation by Mads Albertsen / Rasmus Wollenberg	MA/RWO
10.45-11.30	Theory <ul style="list-style-type: none"> - Historical overview of Nanopore sequencing - Flow-cell schematics - Library options - Quality control 	RWO
11.30-12.00	Lunch	
12.00-	Wet lab practical's <ul style="list-style-type: none"> - Flow cell QC - MinKnow GUI (pre-run layouts) - Library preparation using the ligation sequencing kit (SQK-LSK9) /w. library QC - Priming and loading of the MinION flow cells - MinKnow GUI (Sequencing performance assessment) - Introduction to wash kits / washing procedure 	RWO
19.00	Social event / dinner	RWO / RHK

Day 2 | 5th of February 2019

Time	Content	Responsible
9.00-9.45	Summary <ul style="list-style-type: none"> - Insights from day 1 - Status of sequencing run - Stopping a sequencing run - Intro to bioinformatics 	RWO
9.45-11.30	Data extraction	RWO

	<ul style="list-style-type: none">- Data output types (Fast5, FastQ)- Basecalling / demultiplexing in albacore- Trimming (Porechop)	
11.30-12.00	Lunch	
12.00-14.15	Assembly* <ul style="list-style-type: none">- Brief introduction to Miniasm and Racon- Assembly in Miniasm /Racon- Community introduction	
14.15-14.45	Competition	RWO / RHK
14.45-15.00	Course evaluation	RWO

*this part might be adjusted to match the participants.

For more information contact

Rasmus Wollenberg | rwo@DNAsense.com