

From genes to treatment: Understanding epilepsy genetics and precision medicine Oslo, November 24th and 25th, 2025

Day 1: Monday 24th of November

09:30-10:00: Registration, coffee and sandwiches

| SESSION 1: | Basics and background |
|--|---|
| 10:00-10:15 | Introduction of course and participants |
| 10:15-10:45 | Why does epileptology need genetics and precision medicine? |
| | Tommy Stödberg, MD, PhD |
| 10:45-11:20 | Genetics: Basics and methods |
| | Kaja Selmer, MD, PhD |
| 11:20-12:00 | Genetic evaluation, diagnosis, and counselling |
| | Inger-Lise Mero, Clinical Geneticist, MD, PhD |
| 12:00-13:00 | Lunch break |
| | |
| SESSION 2: | Epilepsy genetics |
| 13:00-13:45 | State of the art of genetic investigations in epilepsy in 2025 |
| 13.00 13.43 | Rikke Steensbjerre Møller, Professor, MSc, PhD |
| 13:45-14:30 | A genotype-phenotype clinical interpretation approach |
| 13.43 14.30 | Elena Gardella, Prof., MD PhD and Rikke Steensbjerre Møller, Prof, MSc PhD |
| 14:30–14:45 | Mini break – leg stretch |
| 14:45–15:45 | In silico prediction tools and online portals for variant interpretation |
| 14.45-15.45 | Christian Bosselmann, MD, PhD |
| 15:45–16:15 | Mini break – with snacks |
| 15:45-16:15 | Willi break – With Shatks |
| SESSION 3: | Workshop and hands on variant evaluation |
| JEJJIUN J. | WOLKSHOD AND HANDS ON VARIANCE EVALUATION |
| 16:15-16:45 | • |
| 16:15–16:45 16:45–17:45 | Introduction to case workshops on variant evaluation |
| 16:45-17:45 | Introduction to case workshops on variant evaluation Case work in groups |
| 16:45–17:45 17:45–18:15 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum |
| 16:45-17:45 | Introduction to case workshops on variant evaluation Case work in groups |
| 16:45–17:45 17:45–18:15 18:15–18:30 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 |
| 16:45–17:45 17:45–18:15 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum |
| 16:45–17:45 17:45–18:15 18:15–18:30 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner |
| 16:45–17:45 17:45–18:15 18:15–18:30 1930 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 |
| 16:45-17:45 17:45-18:15 18:15-18:30 1930 SESSION 4: | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment |
| 16:45-17:45 17:45-18:15 18:15-18:30 1930 SESSION 4: 09:00-09:30 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives |
| 16:45-17:45 17:45-18:15 18:15-18:30 1930 SESSION 4: | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia |
| 16:45–17:45 17:45–18:15 18:15–18:30 1930 SESSION 4: 09:00–09:30 09:30–10:00 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia Fridny Heimisdottir, Pediatrician, MD |
| 16:45-17:45 17:45-18:15 18:15-18:30 1930 SESSION 4: 09:00-09:30 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia Fridny Heimisdottir, Pediatrician, MD Principles of clinical pharmacology and pharmacogenetics |
| 16:45–17:45 17:45–18:15 18:15–18:30 1930 SESSION 4: 09:00–09:30 09:30–10:00 10:00–10:40 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia Fridny Heimisdottir, Pediatrician, MD Principles of clinical pharmacology and pharmacogenetics Cecilie Johannessen Landmark, Professor, MScPharm, PhD |
| 16:45–17:45 17:45–18:15 18:15–18:30 1930 SESSION 4: 09:00–09:30 09:30–10:00 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia Fridny Heimisdottir, Pediatrician, MD Principles of clinical pharmacology and pharmacogenetics Cecilie Johannessen Landmark, Professor, MScPharm, PhD Drug repurposing in epilepsy |
| 16:45–17:45 17:45–18:15 18:15–18:30 1930 SESSION 4: 09:00–09:30 09:30–10:00 10:00–10:40 10:40–11:10 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia Fridny Heimisdottir, Pediatrician, MD Principles of clinical pharmacology and pharmacogenetics Cecilie Johannessen Landmark, Professor, MScPharm, PhD Drug repurposing in epilepsy Allan Bayat, Ass. Professor, MD, PhD |
| 16:45-17:45 17:45-18:15 18:15-18:30 1930 SESSION 4: 09:00-09:30 09:30-10:00 10:00-10:40 10:40-11:10 11:10-11.30 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia Fridny Heimisdottir, Pediatrician, MD Principles of clinical pharmacology and pharmacogenetics Cecilie Johannessen Landmark, Professor, MScPharm, PhD Drug repurposing in epilepsy Allan Bayat, Ass. Professor, MD, PhD Break |
| 16:45–17:45 17:45–18:15 18:15–18:30 1930 SESSION 4: 09:00–09:30 09:30–10:00 10:00–10:40 10:40–11:10 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia Fridny Heimisdottir, Pediatrician, MD Principles of clinical pharmacology and pharmacogenetics Cecilie Johannessen Landmark, Professor, MScPharm, PhD Drug repurposing in epilepsy Allan Bayat, Ass. Professor, MD, PhD Break Precision medicine – state of the art and future perspectives |
| 16:45-17:45 17:45-18:15 18:15-18:30 1930 SESSION 4: 09:00-09:30 09:30-10:00 10:00-10:40 10:40-11:10 11:10-11.30 | Introduction to case workshops on variant evaluation Case work in groups Round-up in plenum Summary of day 1 Dinner Day 2: Tuesday 25 th of November, 2025 Precision treatment Patient perspectives Somatic mutations in focal cortical dysplasia Fridny Heimisdottir, Pediatrician, MD Principles of clinical pharmacology and pharmacogenetics Cecilie Johannessen Landmark, Professor, MScPharm, PhD Drug repurposing in epilepsy Allan Bayat, Ass. Professor, MD, PhD Break |

Endorsed by:

SESSION 5:

13:30-15:00

15:00-16:00



Clinical case discussions

Plenary seminar: Cases from participants

Clinical discussions, evaluations, conclusions



