



# ESHG Pharmacogenomics Course

<http://ibk.mf.uni-lj.si/people/dolzan/eshgpgxcourse2025>

**Hotel Histria**  
**Portorož – Slovenia**  
**June 04 – 06, 2025**



## PROGRAMME AT A GLANCE

### Day 1: WEDNESDAY June 4<sup>th</sup> 2025

08.00 – 08.30	Registration
08.30 – 10.15	<b>Session 1: Introduction to Pharmacogenetics</b>
10.15 – 11.00	Coffee break
11.00 – 12.30	<b>Session 2: Pharmacogenomics of Adverse Drug Reactions</b>
12.30 – 14.00	Lunch
14.00 – 15.30	<b>Session 3: Cancer Pharmacogenomics</b>
15.30 – 16.30	Coffee break and poster viewing
16.30 – 18.30	<b>Session 4: Clinical Topics in Pharmacogenomics I</b>
19.00 –	Welcome reception

### Day 2: THURSDAY June 5<sup>th</sup> 2025

08.30 – 10.30	<b>Session 5: Clinical Topics in Pharmacogenomics II</b>
10.30 – 11.00	Coffee break
11.00 – 12.30	<b>Session 6: Clinical Implementation of Pharmacogenetics I</b>
12.30 – 14.00	Lunch
14.00 – 15.30	<b>Workshop 1: Pharmacogenomics Resources</b>
15.30 – 16.30	Coffee break and poster viewing
16.30 – 18.30	<b>Session 7: Novel Biomarkers of Treatment Response</b>
19.00	Conference dinner

### Day 3: FRIDAY June 6<sup>th</sup> 2025

08.30 – 10.00	<b>Workshop 2: Extracting Pharmacogenomic Information from NGS Data</b>
10.00 – 11.00	Coffee break and poster viewing
11.00 – 12.30	<b>Session 8: Clinical Implementation of Pharmacogenetics II</b>
12.30 – 14.00	Lunch
14.00 – 15.15	<b>Session 9: Clinical Implementation of Pharmacogenetics – Discussion Forum</b>
15.15 – 16.00	Coffee break
16.00 – 17.00	<b>Session 10: Closing Lectures</b>
18.00	A guided tour of Piran
19.30	Farewell dinner in Piran

## DETAILED PROGRAMME

### Day 1: WEDNESDAY June 4<sup>th</sup> 2025

08.00 – 08.30	Registration
08.30 – 10.15	<b>Session 1: Introduction to Pharmacogenetics</b>
08.30 – 08.45	<b>Course Welcome:</b> Vita Dolžan ( <i>Slovenia</i> )
08.45 – 09.30	<b>Opening lecture:</b> Pharmacogenomics, validation of the genetic background – <b>Magnus Ingelman-Sundberg</b> ( <i>Sweden</i> )
09.30 – 10.15	Pharmacogenomics of drug transporters – <b>Mikko Niemi</b> ( <i>Finland</i> )
10.15 – 11.00	Coffee break
11.00 – 12.30	<b>Session 2: Pharmacogenomics of Adverse Drug Reactions</b>
11.00 – 11.30	Pharmacogenomics of Adverse Drug Reactions – <b>Julia C. Stingl</b> ( <i>Germany</i> )
11.30 – 12.00	Pharmacogenomics of Drug-Induced Liver Injury – <b>Ann K Daly</b> ( <i>UK</i> )
12.00 – 12.30	Pharmacogenomics in prediction of cardiovascular drugs adverse reaction –PgxCARDIODrug – <b>Lana Ganoci</b> ( <i>Croatia</i> )
12.30 – 14.00	Lunch
14.00 – 15.30	<b>Session 3: Cancer Pharmacogenomics</b>
14.00 – 14.30	Pharmacogenomics in cancer treatment – <b>Cristina Rodriguez-Antona</b> ( <i>Spain</i> )
14.30 – 15.00	The use of pharmacogenetics to personalize anti-cancer treatment: state of the art and future directions – <b>Erika Cecchin</b> ( <i>Italy</i> )
15.00 – 15.15	Pharmacogenomics of thiopurine drugs in pediatric acute lymphoblastic leukemia: towards personalized therapy in Serbia? – <b>Branka Zukić</b> ( <i>Serbia</i> )
15.15 – 15.30	Thiopurine pharmacogenomics and TDM in Slovenia – <b>Alenka Šmid</b> ( <i>Slovenia</i> )
15.30 – 16.30	Coffee break and poster viewing
16.30 – 18.30	<b>Session 4: Clinical Topics in Pharmacogenomics I</b>
16.30 – 17.00	Pharmacogenomics in Psychiatry – <b>Adrian Llerena</b> ( <i>Spain</i> )
17.00 – 17.30	Implementation of a pharmacogenomic testing strategy in primary care – <b>John McDermott</b> ( <i>UK</i> )
17.30 – 18.30	Short presentations / Case presentations – to be selected from abstracts
19.00 –	Welcome reception

## Day 2: THURSDAY June 5<sup>th</sup> 2025

<b>08.30 – 10.30</b>	<b>Session 5: Clinical Topics in Pharmacogenomics II</b>
<b>08.30 – 09.00</b>	Pharmacogenomics and polypharmacy in the elderly – <b>Julia C. Stingl</b> (Germany)
<b>09.00 – 09.30</b>	Pharmacogenetics in treatment of cardiovascular diseases (- is it cost effective?) – <b>Ron van Schaik</b> (The Netherlands)
<b>09.30 – 10.00</b>	Pharmacogenetics lessons from clinical genetics – <b>Bill Newman</b> (UK)
<b>10.00 – 10.30</b>	Point of care testing in pharmacogenomics – <b>John McDermott</b> (UK)
<b>10.30 – 11.00</b>	Coffee break
<b>11.00 – 12.30</b>	<b>Session 6: Clinical Implementation of Pharmacogenetics I</b>
<b>11.00 – 11.30</b>	Clinical implementation of pharmacogenetics - Finnish experience – <b>Mikko Niemi</b> (Finland)
<b>11.30 – 12.00</b>	Creation of a national pharmacogenomics program – <b>Bill Newman</b> (UK)
<b>12.00 – 12.30</b>	Clinical implementation of pharmacogenetic testing in Spain – <b>Adrian Llerena</b> (Spain)
<b>12.30 – 14.00</b>	Lunch
<b>14.00 – 15.30</b>	<b>Workshop 1: Pharmacogenomics Resources</b>
<b>14.00 – 14.30</b>	Bioinformatics tools in pharmacogenomics research – <b>David Vogrinc, Katja Goričar</b> (Slovenia)
<b>14.30 – 15.00</b>	Pharmacogenes in focus: PharmGKB and PharmVar – <b>Vita Dolžan, Katja Goričar</b> (Slovenia)
<b>15.00 – 15.30</b>	Educational resources in pharmacogenetics – <b>Vita Dolžan</b> (Slovenia)
<b>15.30 – 16.30</b>	Coffee break and poster viewing
<b>16.30 – 18.30</b>	<b>Session 7: Novel Biomarkers of Treatment Response</b>
<b>16.30 – 17.00</b>	Genomic diversity and predictive biomarkers in renal cancer – <b>Cristina Rodriguez-Antona</b> (Spain)
<b>17.00 – 17.30</b>	Pharmacogenomic and epigenomic biomarkers in radiotherapy – <b>Katja Goričar</b> (Slovenia)
<b>17.30 – 17.50</b>	Uncovering Treatment-Responsive Immune Pathways in Multisystem inflammatory syndrome in children (MIS-C) Through Single-Cell Multiomics – <b>Barbara Jenko Bizjan</b> (Slovenia)
<b>17.50 – 18.10</b>	Epigenetic biomarkers of nusinersen treatment in children with SMA – <b>Jernej Kovač</b> (Slovenia)
<b>18.10 – 18.30</b>	miRNA Biomarkers in Osteoporosis: A Pharmacoeepigenetic View of Teriparatide Response – <b>Lucija Ana Vrščaj</b> (Slovenia)
<b>19.00</b>	Conference dinner

## Day 3: FRIDAY June 6<sup>th</sup> 2025

<b>8.30 – 10.00</b>	<b>Workshop 2: Extracting Pharmacogenetic Information from NGS Data</b>
<b>8.30 – 9.00</b>	PharmGenHUB Project: Population pharmacogenomics in the Western Balkan – <b>Branka Zukić</b> (Serbia)
<b>9.00 – 9.20</b>	Bioinformatics tools in pharmacogenomics research – <b>Nikola Kotur</b> (Serbia)
<b>9.20 – 9.40</b>	From BAM to haplotype: using Stargazer for pharmacogenomic data analysis – <b>Marina Jelovac</b> (Serbia)
<b>9.40 – 10.00</b>	Interpretation of NGS Results: analysis of pharmacogenomic variants – <b>Vladimir Gašić</b> (Serbia)
<b>10.00 – 11.00</b>	Coffee break and poster viewing
<b>11.00 – 12.30</b>	<b>Session 9: Clinical Implementation of Pharmacogenetics II</b>
<b>11.00 – 11.30</b>	Clinical implementation of pharmacogenetics for routine drug prescription: what are the unmet needs – <b>Ron van Schaik</b> (The Netherlands)
<b>11.30 – 12.00</b>	Implementation of pharmacogenetics in the clinical practice: from anti-cancer chemotherapy to tumor cells targeted agents – <b>Erika Cecchin</b> (Italy)
<b>12.00 – 12.30</b>	Implementation of pharmacogenomics testing: lessons learnt from the PREPARE study – <b>Vita Dolžan</b> (Slovenia)
<b>12.30 – 14.00</b>	Lunch
<b>14.00 – 15.15</b>	<b>Session 9: Clinical Implementation of Pharmacogenetics – Discussion Forum</b>
<b>15.15 – 16.00</b>	Coffee break
<b>16.00 – 17.00</b>	<b>Session 10: Closing Lectures</b>
<b>16.00 – 16.30</b>	Ongoing challenges in implementing pharmacogenomics in the clinic – <b>Ann K Daly</b> (UK)
<b>16.30 – 17.00</b>	Pharmacogenomics, clinical application today and in the future – <b>Magnus Ingelman-Sundberg</b> (Sweden)
<b>18.00</b>	A guided tour of Piran
<b>19.30</b>	Farewell dinner in Piran