



THE UNIVERSITY
of EDINBURGH



COST Training School 2025

Histopathological and molecular methods in biliary tract cancer modelling and their clinical context

Course Organizers:

Stephanie Roessler and Tim Kendall

Institution:

Institute of Pathology, University Hospital Heidelberg, Heidelberg, Germany

Agenda:

March 13, 2025 (Thursday)

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| 8:30 | Registration |
| 8:45 | Welcome message from Prof. Schirmacher (Director Institute of Pathology) |
| 9:00-10:00 | Introduction on BTC, molecular alterations, biology, cell-of-origin, tumor microenvironment (Stephanie Roessler and Tim Kendall) |
| 10:00-11:00 | Histology of the human liver, liver disease, carcinogenesis, connecting molecular and histological subtype (Guido Carpino) |
| 11:00-11:15 | Coffee break |
| 11:15-12:30 | Introduction and used case IHC (QuPath), seminar and examples (Tim Kendall) |
| 12:30-13:15 | Lunch break |
| 13:15-14:45 | Beginners guide to scripting (QuPath)- hands-on training step-by-step (Tim Kendall) |
| 14:45-15:00 | Coffee break |
| 15:00-17:00 | Histology of normal mouse liver, background lesions in mice, pitfalls, mouse models, comparison to human BTC and limitations, live microscopy (Tanja Poth, Ed Jarman and Stephanie Roessler) |

March 14, 2025 (Friday)

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| 8:30 | Registration |
| 9:00-10:30 | How does molecular pathology work? Follow the sample and analyze the data for interpretation. Panel sequencing, IHC, gene fusions, FISH (Sophie McHaffie) |
| 10:30-10:45 | Coffee break |
| 10:45-12:15 | Understanding clinical trials, basics of trial design, current trials and change in guidelines based on recent trials (Michael Dill, Christoph Springfield) |
| 12:15-12:30 | Discussion and wrap up |