

## **EASL School Official Title:** Advanced Immunology of the Liver; Deep Immunophenotyping of liver FNA and resection samples using multi-modal techniques

27<sup>th</sup> – 28<sup>th</sup> June 2025

	DAY 1	
08:45 – 09:00	<b>Registration</b> Welcome to the School and overview of the programme.	Prof Ellie Barnes Prof Paul Klenerman Dr Emma Culver
09:00 - 10:00	Session 1: Deep immunophenotyping of liver tissue and blood – Experimental approaches Break-out groups of 5 students design a study to answer a research question.	Dr Tamsin Cargill Dr Rory Peters Dr Anthony George Dr Helen Ferry Dr Lucy Garner Dr Aneesha Bhandari Dr Felipe Galvez- Cancino
10:00 - 10:30	Coffee break	
11:00 - 13:00	<ul> <li>Session 2: Hands-on-session 1 (rotate in groups of 5)</li> <li>1: Processing liver tissue for immunological techniques <ul> <li>Whole tissue processing (single cell suspension, resecting, snap freezing)</li> <li>H&amp;E and microscopy of cryosections</li> </ul> </li> <li>2: Multiparameter flow cytometry <ul> <li>Sample staining</li> <li>Sample acquisition</li> </ul> </li> <li>3: Single cell RNA sequencing aspects of sample preparation and processing</li> </ul>	Dr Tamsin Cargill Dr Rory Peters Dr Anthony George Dr Helen Ferry Dr Lucy Garner Dr Aneesha Bhandari Dr Felipe Galvez- Cancino

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13:00 - 14:00	Lunch	
14:00 - 16:00	<ul> <li>Session 3: Hands-on-session 2. (rotate in groups of 5)</li> <li>1: Processing liver tissue for immunological techniques <ul> <li>Whole tissue processing (single cell suspension, resecting, snap freezing)</li> <li>H&amp;E and microscopy of cryosections</li> </ul> </li> <li>2: Multiparameter flow cytometry <ul> <li>Sample staining</li> <li>Sample acquisition</li> </ul> </li> <li>3: Single cell RNA sequencing aspects of sample preparation and processing</li> </ul>	Dr Tamsin Cargill Dr Rory Peters Dr Anthony George Dr Helen Ferry Dr Lucy Garner Dr Aneesha Bhandari Dr Felipe Galvez- Cancino
16:00 - 16:30	Coffee break	
16:30 - 17:30	<b>Session 4: State-of-the-art lecture.</b> Assessment of the immunological response in the liver using liver fine needle aspiration	Dr Uppy Gill

	DAY 2	
09:15 - 11:15	<ul> <li>Session 1: Hands-on-session 3</li> <li>1: Processing liver tissue for immunological techniques <ul> <li>Whole tissue processing (single cell suspension, resecting, snap freezing)</li> <li>H&amp;E and microscopy of cryosections</li> </ul> </li> <li>2: Multiparameter flow cytometry <ul> <li>Sample staining</li> <li>Sample acquisition</li> </ul> </li> <li>3: Single cell RNA sequencing aspects of sample preparation and processing</li> </ul>	Dr Tamsin Cargill Dr Rory Peters Dr Anthony George Dr Helen Ferry Dr Lucy Garner Dr Aneesha Bhandari Dr Felipe Galvez- Cancino

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11:15 –	Coffee break	
11:45		
11:45 –	Session 2: Integrative analysis/systems immunology of	Dr Tamsin Cargill
12:45	multimodal experimental data.	Dr Rory Peters
	Analysis of datasets generated by immunological techniques	Dr Anthony George
	_	Dr Helen Ferry
		Dr Lucy Garner
		Dr Aneesha
		Bhandari
		Dr Felipe Galvez-
		Cancino
12:45 –	Session 3: Conclusions and close	Prof Ellie Barnes
13:00		Prof Paul Klenerman
		Dr Emma Culver

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