NRS Advanced Technologies Symposium

Friday April 4, 2025, University of Utrecht – David de Wied Building

Topics of Interest 2025: Spatial transcriptomics and proteomics, Artificial intelligence in lung disease, Lung tissue culture and Epithelial-Immune co-cultures

From 9:30	***Arrivals and Registration with tea and coffee***	
10:00-10:10	Opening introduction	
10:10-10:50	AI in Lung Imaging: Advanced Assessment of Bronchial Disease and Emphysema	Drs. Tjeerd van der Veer, LUMC, Leiden
10:50-11:30	Integrating single cell and spatial transcriptomics in healthy and pathological lungs	Dr. Pascal Barbry, Université Cote d'Azur, Nice
	Short Break	
11:40-12:20	Label-free 4D-Imaging of Pathophysiological Cell and Tissue Changes in Precision-cut Lung Slices	Dr. Jan Willem Duitman, AUMC, Amsterdam
12:20-13:00	Long-term co-culture with nasal epithelial cells induces tissue-resident memory-like T cells	Dr. Simon Jochems, LUMC, Leiden
13:00-14:00	Meet the speaker Lunch	
14:00-15:00	**Workshop (parallel sessions)**	
	Session 1: Artificial Intelligence in lung diseases	Drs. Tjeerd van der Veer
	Session 2: Spatial transcriptomics and proteomics	Dr. Pascal Barbry
	Session 3: Lung tissue culture	Dr. Jan Willem Duitman and Dr. Simon Jochems
15:00-15:30	Coffee break	
15:30-16:50	**Junior session: View into the Future**	
15:30-15:50	AI and Automation for Patient Derived Living Technologies	Dr. Sam van Beuningen, University Utrecht, Utrecht
15:50-16:10	Spatial dynamics of anti-tumor immunity in the tumor-draining lymph node	Anneloes van Krimpen, MSc, Erasmus MC, Rotterdam
16:10-16:30	CRISPR/Cas9-based human T cell engineering	Dr. Mieke Metzemaekers, Erasmus MC, Rotterdam
16:30-16:50	*In vitro* models for studying neuro-immune interactions in asthma	Carli Koster, MSc, RuG, Groningen
16:50-17:00	Closing highlights/take home messages	

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