

Lorentz Workshop

**Fluids & Health 2026: Viral respiratory disease transmission through the air**

Time	Monday, June 1, 2026	Tuesday, June 2, 2026	Wednesday, June 3, 2026	Thursday, June 4, 2026	Friday, June 5, 2026
09:00 - 10:00		<u>Discussion 1A</u> <b>Measurement challenges &amp; frontier: from microdroplets to viral recovery: implications for sampling from source to deposition in new targets (humans/animals/instruments).</b> ( topical experts)	<u>Discussion 2A</u> <b>The airborne phase: biological and physical factors influencing respiratory virus transport and transmission and their quantification.</b> ( topical experts)	<u>Discussion 3A</u> <b>Generation of respiratory microdroplets: direct measurements vs. commonly assumed mechanisms; animal vs. human vs. engineered models and implications for</b> ( topical experts)	<i>Recap of findings on consensus and open challenges. Short presentations per theme by rapporteurs</i>
10:00 - 10:30	Center Welcome / Workshop objectives				
10:30 - 11:00		Coffee	Coffee	Coffee	
11:00 - 12 :00	<i>Participants introduction</i> Group introductions by participants & discussion with prepared sub-teams of single and mixed expertise	<u>Discussion 1A</u> <b>Measurement challenges &amp; frontier: from microdroplets to viral recovery: implications for sampling from source to deposition in new targets (humans/animals/instruments).</b>	<u>Discussion 2A</u> <b>The airborne phase: biological and physical factors influencing respiratory virus transport and transmission and their quantification.</b>	<u>Discussion 3A</u> <b>Generation of respiratory microdroplets: direct measurements vs. commonly assumed mechanisms; animal vs. human vs. engineered models and implications for</b>	<i>Discussion: Review of white paper emerging framing + follow-up steps</i>
12:00 - 13:30	Lunch	Lunch	Lunch	Lunch	

13:30 - 15:00	Group introductions by participants & discussion continues	Discussion 1B	Discussion 2B	Discussion 3B	
		<b>Measurement challenges &amp; frontier: from microdroplets to viral recovery: implications for sampling from source to deposition in new targets (humans/animals/instruments).</b>  <i>(mixed experts)</i>	<b>The airborne phase: biological and physical factors influencing respiratory virus transport and transmission and their quantification.</b>  <i>(mixed experts)</i>	<b>Generation of respiratory microdroplets: direct measurements vs. commonly assumed mechanisms; animal vs. human vs. engineered models and implications for gold-standard benchmarking of quantification and modeling.</b>  <i>(mixed experts)</i>	
15:00 - 15:30	Coffee	Coffee	Coffee	Coffee	

15:30 - 16:30	Group introductions by participants & discussion continues	Discussion 1C <b>Measurement challenges &amp; frontier: from microdroplets to viral recovery: implications for sampling from source to deposition in new targets (humans/animals/instruments).</b>	Discussion 2C <b>The airborne phase: biological and physical factors influencing respiratory virus transport and transmission and their quantification.</b>	Discussion 3C <b>Generation of respiratory microdroplets: direct measurements vs. commonly assumed mechanisms; animal vs. human vs. engineered models and implications for gold-standard benchmarking of quantification and modeling.</b>	
		<i>Interactive session and synthesis from day and breakouts: week's working themes</i>	<i>Interactive session and synthesis from day and breakouts: week's working themes</i>	<i>Interactive session and synthesis from day and breakouts: week's working themes</i>	
16:30-17:30	<i>Interactive session and synthesis from day and breakouts: week's working themes</i>	<i>Interactive session and synthesis from day and breakouts: week's working themes</i>	<i>Interactive session and synthesis from day and breakouts: week's working themes</i>	<i>Interactive session and synthesis from day and breakouts: week's working themes</i>	
Evening	Welcome reception	Workshop diner	Self-organized diner: all or in sub-groups		

- Plenary session with all participants
- All participants and interactive mixed ideation and dynamic breakouts
- Breakout working sessions with groups of similar domain expertise
- Breakout working sessions of groups of mixed expertise
- Break / social event