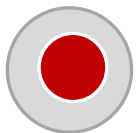


# Thematic workshop Biological Particulate Matter sampling and characterisation

## We'll start at 13:30

**Before we get started  
can you please:**

This session will  
be recorded.

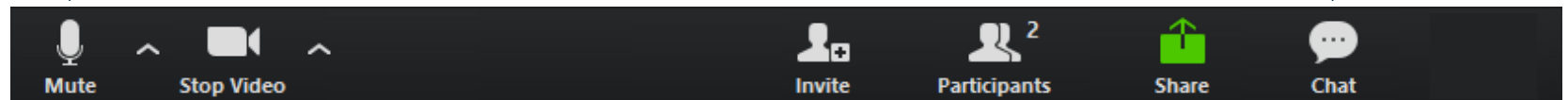


1

Test your speakers/headphones  
and microphone.  
Mute yourself during the session  
unless you want to speak.

4

Open the chat and say hello  
to everyone. Use the chat for  
questions to speakers or  
attendees.



2

Please turn on your  
camera. It's much  
nicer to see you all.

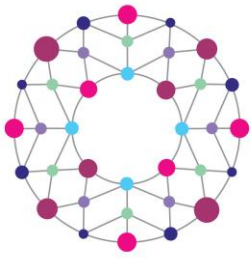
3

Open the Participant panel. Check your name is listed.  
You can rename yourself by selecting the 'More' button  
when you go over your name in the list.



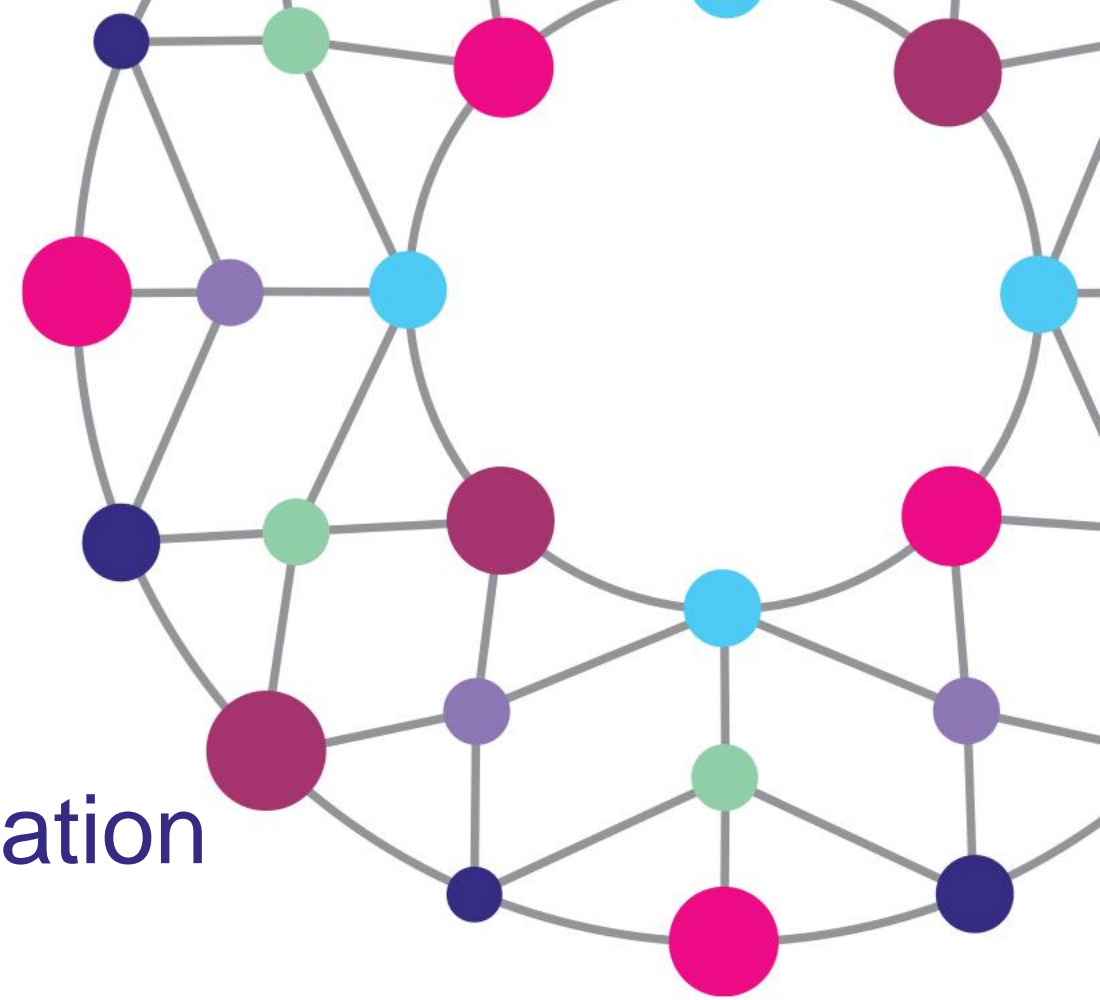
Please, note recording is taking place at this event. If you do not wish to be included in this recording, please inform the BioAirNet manager [contact@bioairnet.co.uk](mailto:contact@bioairnet.co.uk)

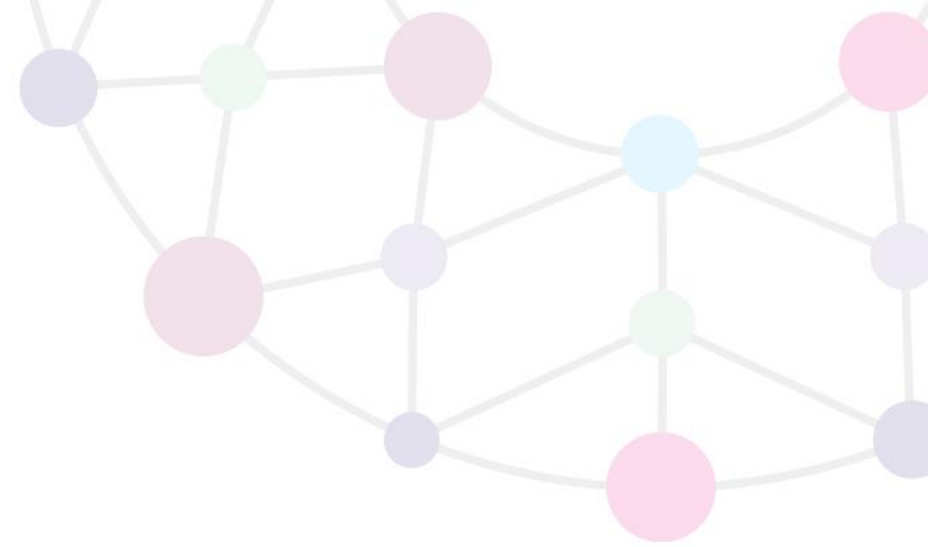
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BioAirNet.

Thematic workshop  
BioPM sampling and characterisation  
(Theme 2)



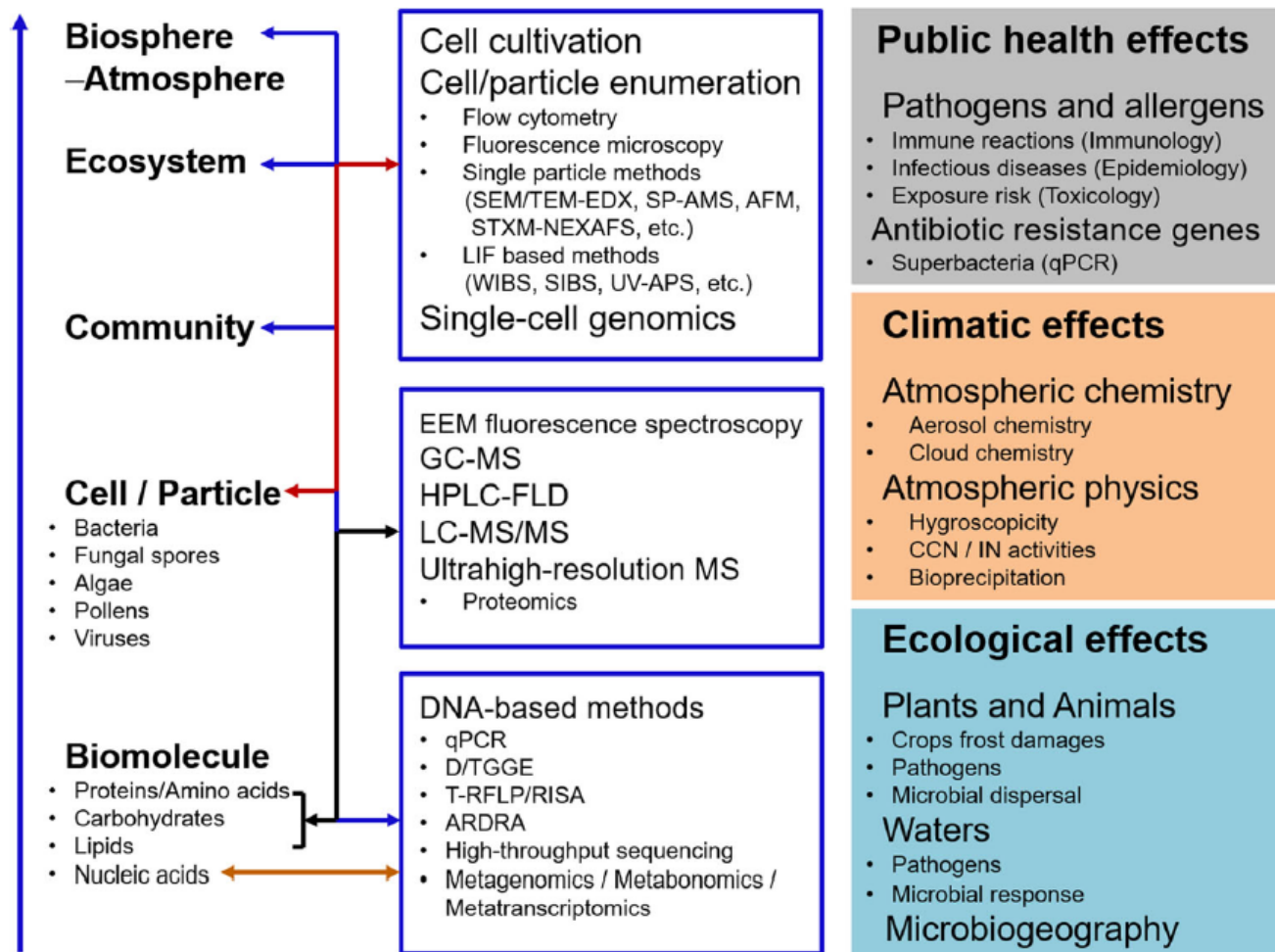


## Theme 2 goal

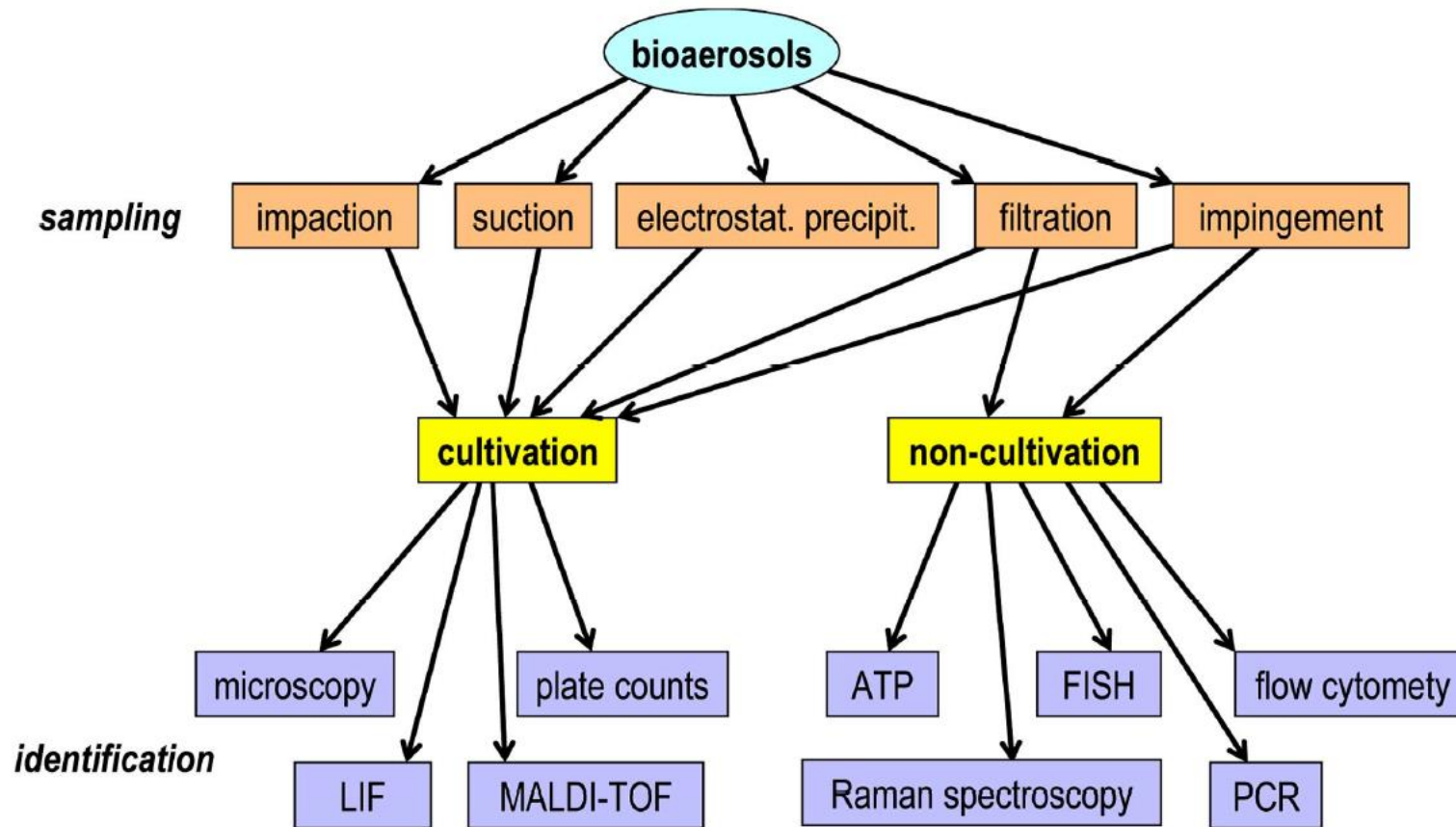
To facilitate the translation of advances in fundamental science towards the characterisation and quantification of bioaerosols



# Bioaerosols research objectives and analytical techniques



# Bioaerosols sampling and identification





# Bioaerosol field measurements: Challenges and perspectives

- Several studies have led to novel findings regarding the link that may exist between airborne bacteria and their source and receptacle environments, but **the lack of harmonised sampling and analysis methodology weaken** the conclusions that can be drawn from independent studies
- Need to provide sample collection and preparation methods intended to generate **reproducible data, applicable to most sampling locations**
- Need of method(s) that allow(s) **simultaneous sampling for chemical and microbiological characterisation** of atmospheric microbiome

## Aim of today's workshop

- Exploring and discussing the knowledge gaps along with barriers and opportunities for sampling, detection and characterisation of BioPM in different indoor-outdoor scenarios
- Identifying and providing recommendation for priority research areas



# Workshop agenda and format

13:40 Recent advances on BioPM sampling techniques and characterisation



**Prof. Carla Viegas**

14:00 What do we need for bioaerosol sampling techniques standardisation?  
And how novel techniques can assist BioPM regulation?



**Prof. Rob Kinnersley**

14:15 Interactive session



15:15 Wrap and recommendation

15:30 End of workshop

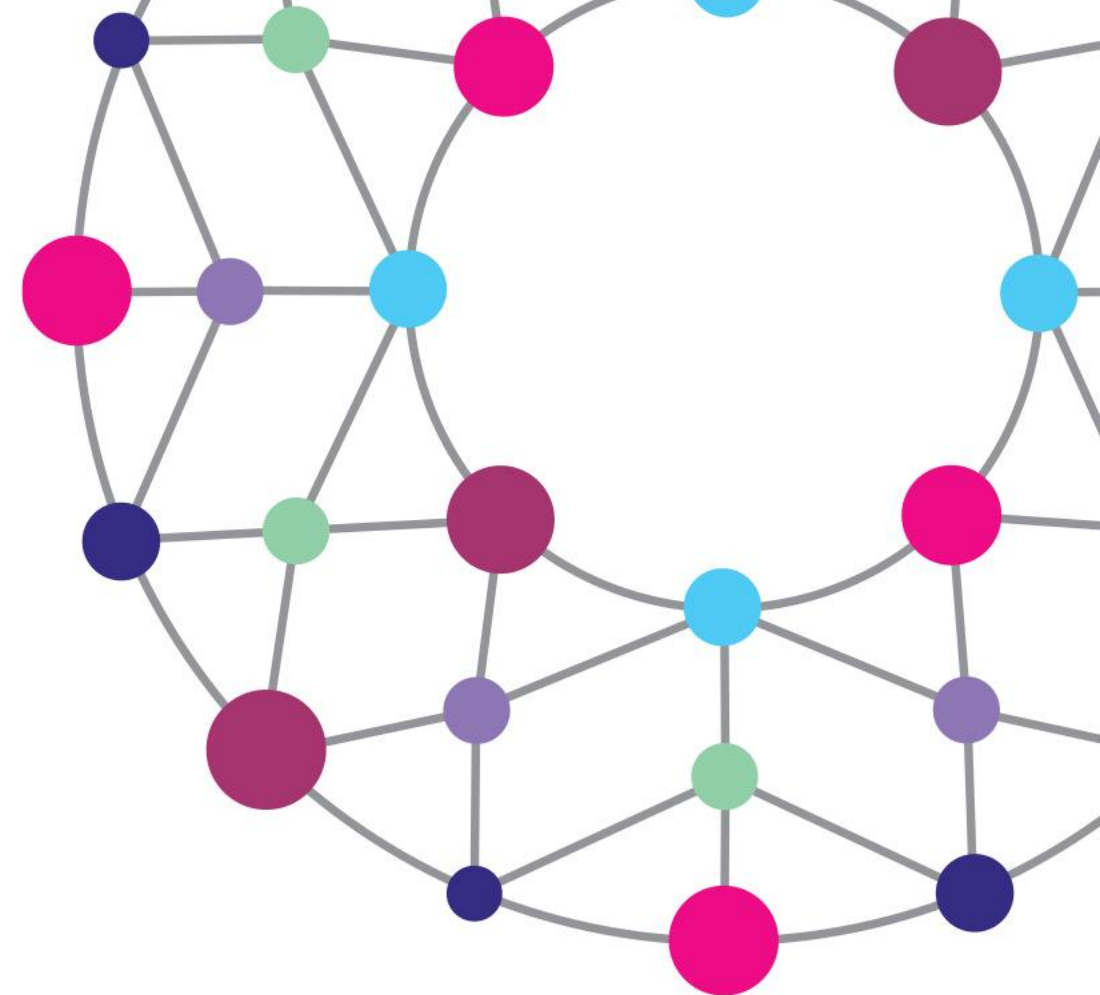




## Research questions

Q1. What do we need for sampling and analysis methodology harmonisation?

Q2. What is the role of emerging technologies to investigate indoor/outdoor atmospheric microbiome and support regulatory needs?



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