



ID de Contribution: 36

Type: **Talk**

## **Detection and tracing of atmosphéric nanoparticles thanks to passive biosensors**

*jeudi 28 mars 2024 16:30 (15 minutes)*

In the present study, we want to determine if plane tree bark can be used as an efficient passive biosensor for the detection of urban NPs. For this purpose, several observations of metallic NPs have been undertaken to determine the localization of NPs within the tree bark and chose the smartest method to extract NPs. Following these observations, many methods to degrade selectively the tree bark organic matter are compared. A particular attention will be paid to the monitoring of the digestion. After assessing the optimum method for degrading the bark, the NPs were extracted. In addition, samples have been spiked by engineered NPs in order to quantify the recovery of the amount of NPs added, and then determine the robustness of the method.

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**Classification de Session:** Talks: PhD students session

**Classification de thématique:** Methods: Experimentation