

الجمهورية الجزائرية الديمقراطية الشعبية  
Ministry de higher education and scientific research



University of Sciences and Technology  
of Oran, Algeria.

Material Physics and Fluids  
Laboratory –USTO-MB



***National Conference on Material Physics and Fluids (CPMF-2022)  
In the prestigious city of Oran (Algeria), On December 12 to 14, 2022.***

**Research areas: Modeling and analysis of COVID-19 epidemics with treatment**

**Responsible: Pr. Mecifi Raouida**

**Modeling and analysis of COVID-19 epidemics with treatment include:**

- Numerical model relating to two-phase flow in the pulmonary bronchi - application to the covid-19 pandemic.
- Numerical model relating to respiratory distress in newborns - application to the covid-19 pandemic
- Case study of newborns affected by the covid pandemic at CHUOran
- Respiratory failure of premature newborns - numerical approach and treatment
- Respiratory failure due to COVID in adults and means of treatment with pulmonary surfactants.