

## Session abstract

### **Statistical analysis of the COVID-19 outbreak: methods and application**

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**September 21, 14:00-15:30**

Since the end of 2019, beginning in China, the entire planet has experienced the spread of the Covid-19 outbreak due to the infection by the Sars-Cov-2 virus. The world wide emergency has interested many fields of biomedical sciences, such as virology or immunology, but also the fields of biostatistics and epidemiology. The possibility and capability to develop statistical models able to describe and predict the evolution of the epidemic curves have played a central role in the management of the emergency. Indeed, the contributions of many statisticians in supporting the efforts of the public health agencies and institutions have been fundamental for decoding the different patterns of the pandemic across time, in order to properly support the decision makers. In this Section, the three invited speakers, all with recognized records in this field, will present their recent results and developments, at both methodological and applicative levels.

Organizer: Fabio Divino, Università del Molise, Italy

#### **Invited speakers:**

- Antonello Maruotti – Libera Università Maria Ss Assunta, Roma, Italy, **From data to modelling: why statistics is fundamental to manage the epidemic**
- Clelia Di Serio – Centro Universitario di Statistica per le Scienze Biomediche, Università Vita Salute San Raffaele, Milano, Italy, **Reproducibility in covid 19 experience: pitfalls and challenges.**
- Damjan Manevski, University of Ljubljana, Slovenia, **COVID-19 in Slovenia, from a success story to disaster: What lessons can be learned?**