## Full Day Short Course



## F02. Chemometrics

Content		<b>Details</b>	
1.	Introduction to chemometrics Data representation, from data matrices matrix to the multivariate space	Instructor	Prof. Federico Marini Sapienza University, Rome, Italy.
2.	Exploratory data analysis PCA and bilinear modeling. Other projection methods. Clustering	Date	27 August 2023
		Time	9:00 h–16:30 h
3.	Predictive modeling Multivariate regression (MLR, PCR and PLS) and classification (PLS-DA and SIMCA)	Duration	6 h plus coffee break
		Format	Frontal Teaching and Practical Work
4.	Validation of chemometric models		Oral Examination
5.	Integrating information from multiple blocks of data through data fusion (hints)	Location	CICG Geneva
		Fees	200 CHF (delegate) 120 CHF (student)
		Included	Coffee break, lunch

## Instructor



Prof. F. Marini

Federico Marini received his MSc (2000) and PhD (2004) from Sapienza University of Rome. He is currently full professor of Analytical Chemistry at Sapienza University of Rome. In 2006, he was awarded the Young Researcher Prize from Italian Chemical Society and in 2012 he won the Chemometrics and Intelligent Laboratory Systems Award "for his achievements in chemometrics". He has been visiting researcher at various

Universities (Copenhagen, Stellenbosch, Silesia, Lille).

His research activity is focused on all aspects of chemometrics, ranging from the application of existing methods to real world problems in different fields to the design and development of novel algorithms. He is author of more than 240 papers in international journals, and he edited and coauthored the book Chemometrics in food chemistry (Elsevier). He is Editor of Chemometrics and Intelligent Laboratory Systems and Frontiers in Analytical Science and member of the Editorial boards of Analytical Chimica Acta, J. of Chemometrics, J. of NIR Spectroscopy, J. of Spectral Imaging and Food Chemistry and he serves as Associate Editor for Chemometrics in Wiley's Encyclopedia of Analytical Chemistry. He has been the coordinator of the Chemometric group of the Italian Chemical Society and is currently the leader of the Chemometric study group of DAC-EuChemS.