

Course offered for the STAT PhD program starting from a.y. 2019/2020

TITLE	Mineralization versus biomineralization: an overview
Lecturer	Cristina Carbone
Duration and Credits	8 hours – 2 CFU
Course description	<p>The aim of this course is to provide an overview of principles of nucleation and growth of mineralizations and biomineralizations processes forming in different environmental conditions.</p> <p>To provide insight into the secondary phase formation the lessons were focused on: iron and manganese mineralization processes (residue deposits and lava tube); sulfur (sulfidic systems), amorphous and colloidal silica (cave deposit); carbonate compounds (speleothems and moonmilk deposits), nitrate and phosphate (guano deposits).</p> <p>Moreover, an outline of essential and pathogenic biominerals of the human body will be addressed (bioapatite and kidney stone).</p>
Course organization	This course consists of frontal lessons.
Teaching period	April - May 2020