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v Ljubljani

Fakulteta *za kemijo*
in kemijsko tehnologijo

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*VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI*

Prof. Annalisa Pastore

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z naslovom:

**Towards the origin and mechanisms of
iron sulfur cluster proteins**

v sredo, 22. novembra 2017 ob 15:00 uri
v predavalnici 1 v 1. nadstropju Fakultete
za kemijo in kemijsko tehnologijo, Večna pot 113

Vljudno vabljeni!

Abstract:

Iron sulfur clusters are essential prosthetic groups involved in several different metabolic pathways. Iron sulphur cluster formation occurs through a complex machinery based on multiple weak interactions and centred around two main components, a desulfurase which converts cysteine into alanine and a scaffold protein on which the cluster is transiently mounted. Any mutation or alteration of components of this machinery leads to human disease. In my seminar, I will review our work to elucidate the mechanism of iron sulfur cluster biogenesis and the more recent advancements of our research. Our observations provide new perspectives for understanding the regulation of iron sulfur cluster formation and propose a mechanistic model which rationalizes all the available knowledge.