



COST CA15133

The Biogenesis of Iron-Sulfur Proteins: from Cellular Biology to Molecular Aspects



2nd FeSBioNet Training School, September 10th-14th 2018, Grenoble, France
CEA Grenoble, Université Grenoble Alpes, CNRS

Hands-on training school

Multidisciplinary approach for the understanding of FeS protein biogenesis

On behalf of the Cost Network, we would like to invite you to attend this Hands-on Training school, that aims at providing an overview of the main challenges in studying Fe-S biogenesis processes. We offer unique expertise in structural approaches for the study of Fe-S clusters.

Scope:

- ◆ Fundamental knowledge and hands-on experience in genetic manipulation, biophysical characterizations (EXAFS, SAXS), spectroscopic analyses (Mössbauer & Electron Paramagnetic Resonance) and structural studies (X-ray crystallography & electron microscopy)
- ◆ This hands-on course includes seminars, practical sessions and a visit of the European Synchrotron Radiation Facility
- ◆ 16 places will be available for FeSBioNet participants

Local organizing committee:

**Sandrine Ollagnier de Choudens, Christine Cavazza, Julien Pérard, Geneviève Blondin
(BIG, LCBM, Grenoble)**





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PROGRAM/ Lectures

- Crystallography of metalloproteins
- Biophysical technics: SAXS, EXAFS
- Mössbauer and EPR on Fe-S clusters
- Paramagnetic NMR
- Electrochemistry of Fe-S
- Genetics on Fe-S metabolism
- Electron microscopy

Hands-on-sessions

- Crystallography of metalloproteins
- Genetic tools
- Mössbauer and EPR spectroscopy
- Electron microscopy
- X-Ray data collection
- Metal content determination
- Biophysical technics

Arrival- 9 September (Sunday evening)

Departure- 14 September (Friday after lunch)

Day 1	Day 2	Day 3	Day 4	Day 5
Lectures	Hands-on-sessions	Lectures	Hands-on-sessions	Lectures
Lunch				
Lectures	Hands-on-sessions	Hands-on-sessions	ESRF Visit	Departure
Poster session		Poster session		



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	Monday 10th	Tuesday 11th	Wednesday 12th	Thursday 13th	Friday 15th
	CEA	CEA	CEA	ESRF	CEA
9am					
9.30am					
9.45am	Introduction	S1/S2: EPR spectroscopy	L6 : Paramagnetic NMR	S8/S9/S10: X Ray data collection	L8 : Prebiotic chemistry of Fe/S
10am	L1 : Crystallography of metalloproteins				
10.15am		Coffee break	Coffee break		Coffee break
10.30am				S9/S10/S8: Light diffusion scattering	
10.45am					L9: Electrochemistry of Fe/S
11am	Coffee break	S2/S1: Mössbauer spectroscopy	L7: Genetics		
11.30am				S10/S8/S9: X Ray absorption spectroscopy	
11.45am	L2 : Light diffusion scattering/MALLS				
12.15am	L3 : X-Ray absorption spectroscopy				
12.45am					
1pm	Lunch H1 CEA	Lunch H1 CEA	Lunch H1 CEA	Lunch ESRF	Lunch H1 CEA
	CEA	IBS	CEA	ESRF	
2pm	L4 : Mössbauer and EPR spectroscopy	S3/S4/S5 : Crystallography of metalloproteins 1	S6/S7 : Genetics	ESRF visit	Departure
		S4/S5/S3 : Crystallography of metalloproteins 2			
3.30pm	Coffee break	Coffee break	Coffee break		
3.45pm	L5 : Electron microscopy	S5/S3/S4 : Electron microscopy	S7/S6 : Metal content determination		
4pm					
5.15pm	Coffee break		Coffee break	Free time TS Diner	
5.30pm	Poster session		Poster session		
7pm					

Lecturers

- L1 : Juan Fontecilla-Camps, IBS, Grenoble, France
- L2 : Julien Pérard, BIG, Grenoble, France
- L3 : Giulia Veronesi, BIG, Grenoble, France
- L4 : Geneviève Blondin, BIG/ Serge Gambarelli, INAC, Grenoble, France
- L5: Irina Gutsche, IBS, Grenoble, France
- L6: Lucia Banci, CERM, Florence, Italy
- L7: Frédéric Barras, Pasteur Institut, Paris, France
- L8: Sheref S. Mansy, University of Trento, Povo, Italy
- L9: Christophe Léger, LCB, Marseille, France

Hands-on-sessions

- S1: Serge Gambarelli, INAC, Grenoble, France
- S2: Martin Clémancey, BIG, Grenoble, France
- S3: Juan Fontecilla-Camps, IBS, Grenoble, France
- S4: Anne Volbeda, IBS, Grenoble, France
- S5: Guy Schoehn, IBS, Grenoble
- S6: Béatrice Py, LCB, Marseille, France
- S7: Julien Pérard/Catherine Gerez, BIG, Grenoble, France
- S8: Christine Cavazza, BIG, Grenoble, France
- S9: Julien Pérard, BIG, Grenoble, France
- S10: Giulia Veronesi, BIG, Grenoble, France



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Who can apply and How to apply?

PhD students and young researchers should send the pre-registration form, an abstract, a CV, a letter of intend and a recommandation letter from the supervisor to sollagnier@cea.fr and christine.cavazza@cea.fr, with the email subject 'FeSBioNet Workshop 2018'.

Registration Fees

- COST FeSBioNet participants: 250 euros (include coffee breaks, lunches, TS dinner and classes materials)
- Non COST participants: 300 euros (include coffee breaks, lunches, TS dinner and classes materials)

Important dates

- Application including abstract + CV + letter of intend + recommandation letter, should be sent by email until **June 15, 2018**.
- Final decision will be made available before **July 5, 2018** (the number of participants is limited).

Grants

- **16 grants** will be available for COST Action CA15133 participants:

Trainee Grants: 1000 euros

French Trainee Grant: 700 euros

Please note that only Registration Fees will be reimbursed to participants from the Grenoble area

- Pre-registration form + CV + abstract + letter of intend + recommandation letter, should be sent for registration.
- Final decision will be made taking into account letter intent + abstract + recommandation letter + CV + country/lab representation (a committee integrating LO and CA coordinator will be organized for this purpose)

Travel and accommodation

Successful candidates are expected to arrange their own travel and accommodation.

Special prices for double room accommodation are available at Hotel Ibis Style, 25 rue Félix Viallet, close to the tramway and downtown (double room accommodation: 294 euros/ person/ 5 nights).

Reservation to Ibis Style Hotel should be made by email to h7953@accor.com, indicating special rate for **COST Training School**.

All information on the TS will be available on the FeSBioNet website: www.fesbionet.eu

Contacts: sollagnier@cea.fr and christine.cavazza@cea.fr; Phone: +33438789122 and +33438789116



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WE ARE HERE

