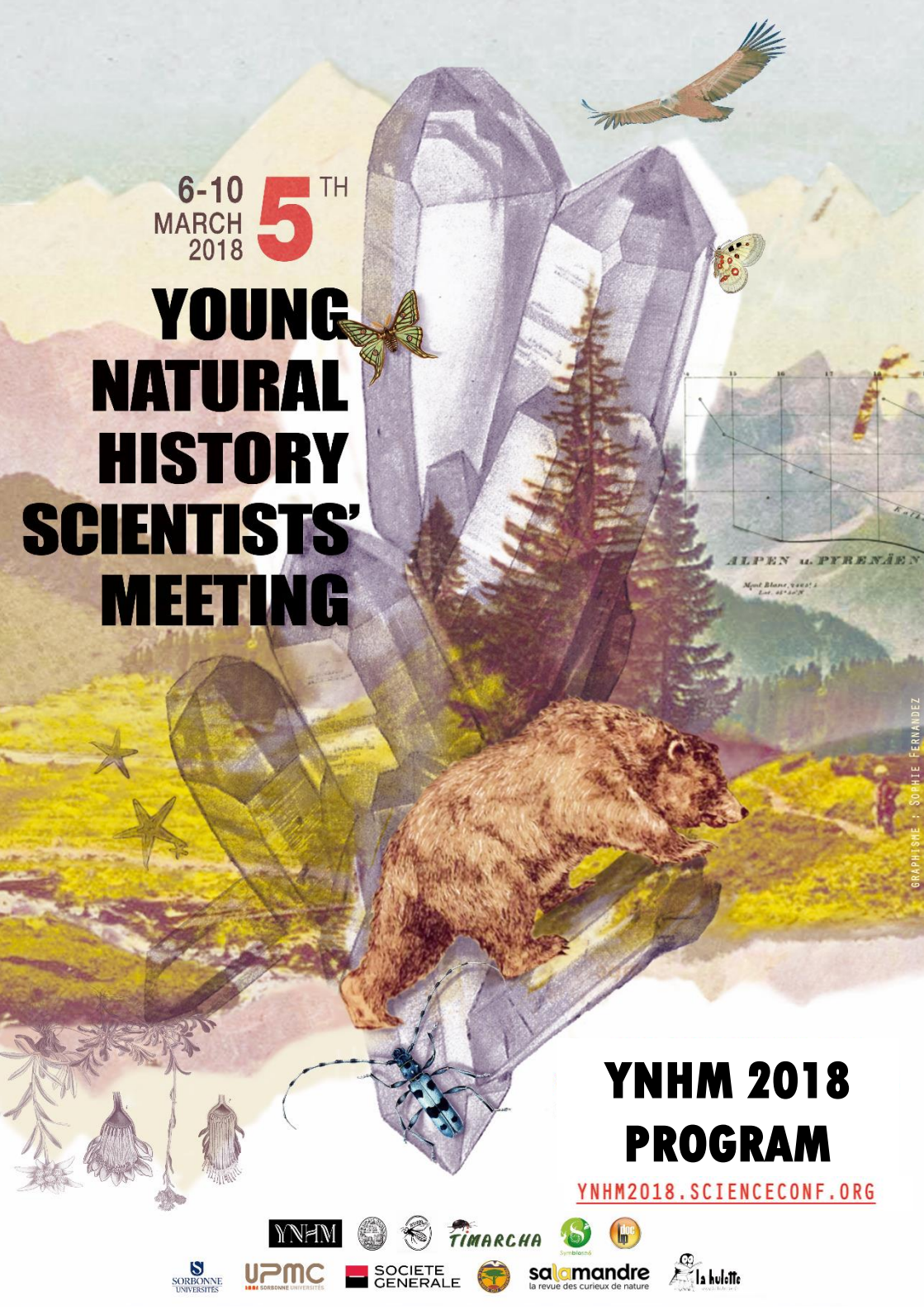


6-10
MARCH 2018 **5TH**

YOUNG NATURAL HISTORY SCIENTISTS' MEETING



GRAPHISME : SOPHIE FERNANDEZ

YNHM 2018 PROGRAM

YNHM2018.SCIENCECONF.ORG





The associations **BDEM**, **Doc'Up**, **Symbiose 6** and **Timarcha** are pleased to welcome you to the 5th Young Natural History scientists Meeting at the **National museum of natural history (MNHN)** of Paris. We hope that this congress created for young scientists will provide you with the opportunity to present, possibly for the first time, your research in a relaxed but studious atmosphere. We believe that the YNHM is a great chance for everyone to have a first international congress experience.

We thank you all for coming and hope you will enjoy the conference and get opportunities for networking.

Faithfully yours,

The Organizing Committee:

Margaux Alarcon; Tannina Alloul; Thomas Arbez; Margot Bärenstrauch; Morgane Bonade; Constance Bronnert; Baptiste Carton; Fabien Claireau; Pauline Conversy; Donald Davesne; Mathilde Delaunay; Marine Durocher; Valentin Faivre; Marine Fau; Sayah Ferial-Sabrina; Elie Gaget; Adrienne Gastineau; Pierre Gueriau; Mauran Guilhem; Hugo Harbers; Antoine Heurtel; Clément Jauvion; Thibault Josselin; Anna Kondratyeva; Nicolas Lazznerini; Louise Le Meillour; Marine Levé; Claire Lorel; Alexandre Lucas; Rohan Mansuit; Anaïs Marrast; Margot Michaud; Nicolas Morand; Chloé Olivier; Nelida Padilla; Fanny Pagès; Yoan Paillet; Alice Petzold; Martial Plasse; Julie Powels; Typhaine Rousteau; Julie Royo; David Rozen-Rechels; Victor Saito; Malcolm Sanders; Laure Schneider-Maunoury; Charles Thévenin; Arbez Thomas; Linh-Thao Thuong; Minh-Xuan Trong; Simon Veron; Delphine Vettese; Juliette Wain.

We would like to thank the members of the six juries and all the guides of the excursions.

We also thank:

Sponsors for their financial support



Sponsors for their gifts



Scientific societies



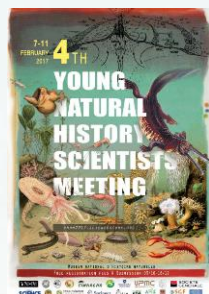
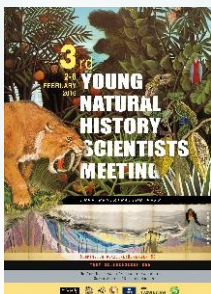
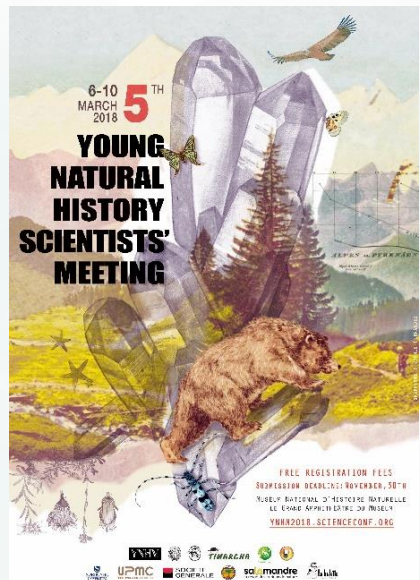
The YNHM's history

Since 1995, the **BDEM** association of PhDs and students of Museum organized an annual congress following a specific theme, often pluridisciplinary to attract the most audience possible, but it somehow limited the scientific discussion made essentially in french. Hence, in 2014, the organizing committee decided to change the congress' format. Why delimiting the congress to a specific theme when we were already all gathered by Natural Sciences? The next day, the first edition of the Young Natural History scientists Meeting was born.

Our main goal was to offer young scientists an opportunity to experience their first communication in a scientific congress by reuniting several crucial elements:

- Propose scientific communication selected by a scientific committee composed of Master and PhD students and post-doctoral fellows ;
- Organize a congress of the level of international scientific meetings but open only for non-permanent young researchers, in english, with sessions covering all disciplines of Natural Sciences;
- Open the congress to other french and foreign universities and provide grants to help students from foreign countries to attend to the congress ;
- Increase the congress attractiveness by inviting renowned researchers to give opening talks for each session and organizing public conferences to which we invite students from high schools.

This experience proved to be successful as for the fifth year in a row, the YNHM attract every year over **300 young researchers in Natural sciences** from more than 30 different countries.



TUESDAY 6th

Humanities and Natural Sciences	09:00	Registration		
	9:00 - 9:30	Opening speech : Nathalie Machon , director of the Doctoral School		
	9:30 - 10:00	Keynote speaker : Jean-Bernard Huchet		
	10:00 - 10:15	Guilhem Mauran	Hues of Namibia: characterization and provenience of Erongo rock art pigments	
	10:15 - 10:30	Andréa Filippo	Exploration of the morphological diversity of mandible of dogs during Epipalaeolithic until Bronze Age in Europe and Near and Middle East. Morpho-functional aspects link to dietary changes induced by man.	
	10:30 - 10:45	Chloé Duffaut	Is the perception of urban biodiversity related to ecosystem services?	
	10:45 - 11:00	Marine Levé	Advocating, caring, knowing as many ways of relate to gardens' nature	
	Coffee break			
	11:30 - 11:45	Alexandre Suire	Vocal behavior and its correlation to mating success in humans	
	11:45 - 12:00	Sandra Simões	In front of captive felines and primates: does welfare matter?	
12:00 - 12:15	Mélanie Dacheux	Potential involment of human secreted group IIA phospholipase A2 in malaria		
12:15 - 12:30	Eslem Ben Arous	Contribution of human occupations study in Northwestern Africa: new dating results of the MSA/LSA transition from El Haroura 2 cave		
Lunch break				
Systematics, Evolution and Comparative Anatomy	14:00 - 14:30	Keynote speaker : Erin Saupu		
	14:30 - 14:45	Pierre Charrier	Transcriptomics help resolve phylogenetic relationships in ticks	
	14:45 - 15:00	Pierre Arnal	Phylogenomic reveals differences in the temporal and spatial diversification of two diverse families of moths	
	15:00 - 15:15	Maxime Taverne	Terrestrial vs. Arboreal : functional differences in the forelimb muscles of Carnivora	
	15:15 - 15:30	Anna Zango Palau	Do sexually dimorphic species have sexually dimorphic brains?	
	Coffee break			
	16:00 - 16:15	Romain Pintore	Limb functional shift between prosauropod and sauropod dinosaurs: Morphological changes among stylopod bones	
	16:15 - 16:30	Théo Pannetier	The imprint of climate in phylogenetic trees: a global analysis on the diversification of Tetrapod families	
	16:30 - 16:45	Laetitia Carrive	The ancestor of buttercups and poppies: Flower evolution in Ranunculales	
	16:45 - 17:00	Javiera Chinga	Integration and allometric dynamics during development and its relation with morphological evolution in Schizanthus (Solanaceae) flowers	
17:15 - 19:00	Poster session: Humanities and Natural Sciences & Systematics, Evolution and Comparative anatomy			
19:15 - 20:15	Film projection " <i>The keepers of the moon mountains</i> "			

WEDNESDAY 7th

Biodiversity Dynamics and Conservation

9:15 - 9:45

Keynote speaker : Aurélien Besnard

9:45 - 10:00

Cathleen Petit

Combining statistical and mechanistic models to unravel the causes of mortality causes within rear-edge beech population

10:00 - 10:15

Felix Rosumek

Natural History of Ants: What We (do not) Know about Trophic and Temporal Niches of Neotropical Species

10:15 - 10:30

Cristiana Alves

Forecasting the potential impacts of environmental change on Iberian plants of conservation concern

10:30 - 10:45

Estelle Razanatsoa

Impact of 700-year rainfall variability on spiny forests: case of the southwestern Madagascar

Coffee break

11:15 - 11:30

Kyungmin Kim

Landscape characteristics and prediction of leopard cat (*Prionailurus bengalensis euptilura*) road-kills in the Republic of Korea

11:30 - 11:45

Loïc Prosnier

Parasites affect their hosts through many ways: virulence, vulnerability, behavior and energy

11:45 - 12:00

Fernanda Fernandes Garcia

Sexual segregation in red deer: a question of food?

12:00 - 12:15

Antoine Gazaix

The contribution of seed bank mapping to conservation programs: The case of *Lythrum thesioides*

Lunch break

14:00 - 14:30

Keynote speaker : Anneleen Foubert

14:30 - 14:45

Christian Müller

Insect folivory patterns in late Eocene coastal lowland riparian associations from central Germany

14:45 - 15:00

Caroline Thaler

The effect of sulfate on biomineralisation by foraminifera

15:00 - 15:15

Luiz Gustavo Pereira

High resolution taphonomic analysis of shell beds in the Holocene sedimentary deposits in southern Brazil

15:15 - 15:30

Aleksander Majchrzyk

Geochemical analysis of the Devonian fossilized fauna from Hamar Laghdad Massif (Anti-Atlas, Morocco)

Coffee break

16:00 - 16:15

Jordan Gönet

Taphonomic study of a pleurosternid turtle shell from the Lower Cretaceous of Angeac-Charente (South-West France)

16:15 - 16:30

Amélie Cavelan

Impact of organic matter chemical transformations on shale porosity during the confined pyrolysis of organic rich shales: a complement to the observations of natural systems

16:30 - 16:45

Morgan Bezard

Structural geology coupled with Raman geothermometry and $40\text{Ar}/39\text{Ar}$ dating in the south of the Menderes Massif, Turkey

16:45 - 17:00

Abdellah El Azhari

Pollution and ecological risk assessment of heavy metals in the soil-plant system and the sediment-water column around a former Pb/Zn-mining area in NE Morocco

17:15 - 19:00

Poster session : Biodiversity dynamics and Conservation & Earth and Planetary Sciences

Earth and Planetary Sciences

THURSDAY 8th

Evolutionary Ecology

9:15 - 9:45

Keynote speaker : Céline Teplitsky

9:45 - 10:00 Miguel Valbuena Arabidopsis thaliana root growth under simulated microgravity

10:00 - 10:15 Felix Lallemand The mystery of the albinos orchids

10:15 - 10:30 Charline Pinna Evolution of transparency in mimetic Lepidoptera

10:30 - 10:45 Thomas Aubier Selection for mutual mate choice can inhibit speciation

Coffee break

11:15 - 11:30 Francisko Rezende Do different light conditions influence warning signal efficacy

11:30 - 11:45 Ayala Loisel Disposable soma theory patterns in oxidative balance of thermally contrasted arctic charr populations

11:45 - 12:00 Camille Leroy Linking wing shape and flight behaviour in Morpho butterflies

12:00 - 12:15 Tazio Tissot The evolution of resistance and tolerance to cancer

Lunch break

Methods in Natural Sciences

13:30 - 14:00

Keynote speaker : Esther Lopez-Montalvo

14:00 - 14:15 Ceferino Varón-González Multivariate methods and the genetics of shape: an empirical approach in the study of the skull

14:15 - 14:30 Ugoline Godeau The importance of being random! Taking full account of random effects in nonlinear hierarchical Bayesian models

14:30 - 14:45 Laxmi Tumung Assessing the application of Digital microscope for usewear and residue analysis: A Preliminary approach

14:45 - 15:00 Rúben Mina Bioaccumulation of metals in bats: the use of fur and wing as non-lethal samples

Coffee break

15:30 - 15:45 Nicolas Lazerini Investigating pastoral mobility of Mongolian domestic horses using GPS tracking and stable isotope ($\delta^{13}C$ and $\delta^{15}N$) analysis of tail hair

15:45 - 16:00 Fanny Pagès What is the impact of preparation bone deformations in a morphometrical study?

16:00 - 16:15 Marcjanna Jędrych A new approach for environmental monitoring using remote sensing techniques

16:15 - 16:30 Hugo Gruson New insights in the measurement and characterization of iridescent colours

16:45 - 18:30 Poster session : Evolutionary Ecology & Methods in Natural Sciences

20:00 - 1:00 Closing Gala

YNHM

The **Young Natural History scientists Meeting**
invites you to its public conferences
on Friday the 9th of March 2018

We will have the great pleasure to welcome :

9h-10h20



Gilles Boeuf

Conference in English

Rich of 40 years of research,
he reflects on the future of Nature
and Mankind we're building today

Jean-Michel Bertrand

Conference in French

Director of a documentary on wolves,
he spent three years in the Alps to
meet with the charismatic animal



10h40-12h

These conferences will take place at the Grand Amphithéâtre du Muséum

**Conferences open to the public.
Be aware that seats are limited (315 seats).**

Social events

Tuesday 7th, 19:15, Movie projection: “The keepers of the moon mountains”

A documentary by Sylvie Tiên Gadmer

On an island of equatorial forest lives a community of wild chimpanzees threatened with extinction. Following their tracks closely, the primatologist Sabrina Krief and her team tries to understand them to better preserve them. She observes the medicinal plants they consume and may heal us tomorrow. You will be immersed in her research that also reveals the poetry of the forest, fragile and threatened, as our two species.



Sabrina Krief is a veterinarian, primatologist and senior lecturer at the National Museum of Natural History. Her research focuses on chimpanzees, their health and the plants they consume, as well as the effects of human activities on the behavior and ecology of chimpanzees.

Photographic contest

During **the poster sessions** you will have the opportunity to admire the photos selected by the jury of the photographic contest. **Do not forget to vote for your favorite!** Results of the vote will be given at the Gala evening.

Thursday 8th, 20:00 Gala evening

You are all invited on Thursday evening to join us at the Gala to share some food, drinks and music and celebrate yet another edition of the YNHM. We will award prizes to the best oral and poster presentations. Come to enjoy the party!



Social events

Galleries access

Don't forget that during the congress you can access all these galleries of the Museum **for free by just showing your badge at the entrance**:

- Grande Galerie de l'Evolution
- Galerie de Minéralogie
- Galerie de Botanique
- Galerie de Paléontologie et d'Anatomie comparé
- Grandes serres
- Ménagerie

If you want to visit the Musée de l'Homme (Mankind Museum), come and get a ticket at the registration desk.

Please note that all galleries are closed on Tuesdays.

Friday 9th

Excursions

People who enrolled for the excursions have to be on time at the meeting points at 14:00 for the first ones and at 15:00 or 15:30 for the second ones:

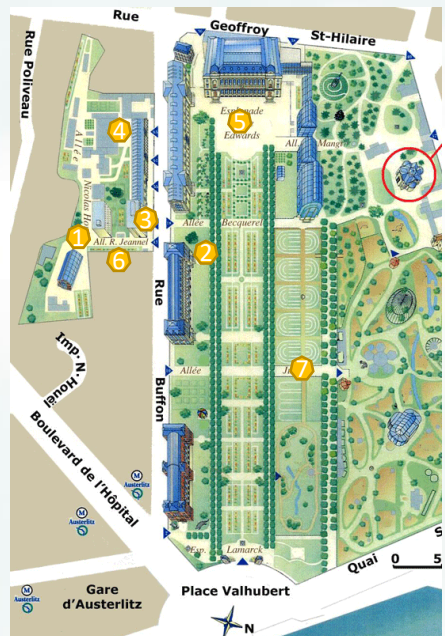
- Imaging platform ①
- Herbarium ②
- Collections of Entomology ③
- Collections of Comparative anatomy ④
- Collections of Marine invertebrates ⑤

Springer Workshop ⑥

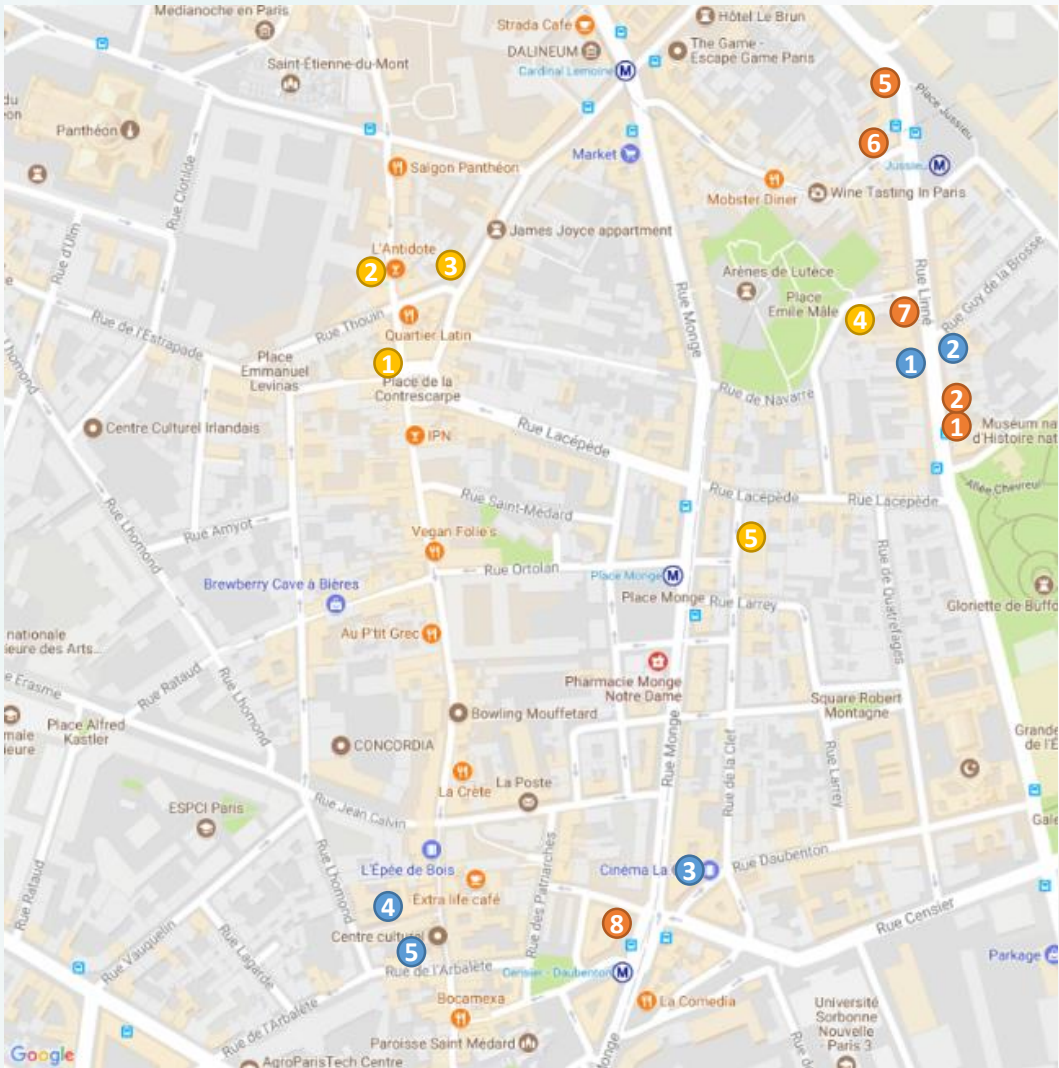
'Springer author's workshop' is dedicated to young researchers willing to learn about publishing scientific research.

Saturday, 10th, Field trip ⑦

People who enrolled for the field trip on Saturday afternoon, have to be at the entrance of the Jardin Ecologique at 14:00.



Where to eat a bite



Eat in a small restaurants

- 1 L'étoile du Liban – 13 rue Linnée
- 2 L'arbre à cannelle – 14 rue Linnée
- 3 Aux délices d'Asie – 36 rue Daubenton
- 4 Golosino IT – 4 square Vermouze
- 5 Les petits plats de Marc – 6 rue de l'Arbalète

Grab a sandwich

- 1 Maison Cocherel – 6 rue Linnée
- 2 T & A – 8 rue Linnée
- 3 Gabriel artisan boulanger – 4 boulevard de l'Hôpital
- 4 MPS boulanger pâtissier – 30 rue Geoffroy Saint-Hilaire

or grab a drink !



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Buy a drink

- ① Le Requin Chagrin – 10 rue Mouffetard
- ② Le Chapi Chapo – 50 rue Descartes
- ③ Rollin's Pub – 18 rue Rollin
- ④ Baker Street Pub – 9 rue des Boulangers
- ⑤ The Local – 54 rue de la Clef
- ⑤ Aux délices de Jussieu – 28 rue Jussieu
- ⑥ Chaud les sandwiches – 4, rue des Boulangers
- ⑦ ⑧ Subway – 19, rue Linné / 98 rue Monge
- ⑨ L'épi Saint Marcel – 56 bd St-Marcel

Jussieu



Registration & Oral presentations
Grand Amphithéâtre du Muséum



Posters, photo exhibition & film projection
Bâtiment Esclançon



Closing Gala
Cantine du personnel

Gare d'Austerlitz

M 10 5
BUS 57 91
RER C



YOUR MAP FOR THE