



laboratoire
d'excellence

ceoda

centre d'étude de la
biodiversité
amazonienne

ANNUAL MEETINGS PROGRAM

4 - 5 October 2022
Université de Guyane, Cayenne



Welcome to the 2022 edition
of the annual LabEx CEBA meeting!

Since 2012, our consortium has gathered
together to present new forays into biodiversity
science, learn from visiting scientists,
and discuss the direction of future research.

In 2022, we are delighted to resume in-person
meetings.

We are grateful to Université de Guyane
for welcoming us on their campus.

Enjoy the meeting!

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TUESDAY 4TH OCTOBER 2022

08:00 Welcome & Coffee

OPENING ADDRESSES

- 09:00 Antoine Primerose, President of Université de Guyane
- 09:10 Vincent Goujon, Executive Director, CEBA
- 09:20 Eric Marcon, Director for training, CEBA
- 09:30 Jérôme Chave, Scientific Director, CEBA
- 09:50 Nadine Amusant, Déléguée Régionale à la Recherche et la Technologie de Guyane
- 10:00 Ludovic Le Laurent, Chargé de suivi projets scientifiques ANR
- 10:10 Open discussion on the future of LabEx CEBA

SESSION 1: CHEMICAL ECOLOGY – MODERATOR: JÉRÔME ORIVEL

- 10:25 Ecology, evolution and role of microorganisms associated with termites - Véronique Eparvier (ICSN)
- 10:35 Chemotaxonomy of *Annona* species using up-to-date mass spectrometry approaches combined with genetics - David Touboul (ICSN)

10:45 Coffee break

- 11:10 Characterization of environmental macroscopic fungi by mass spectrometry - Juliette Segret (ICSN)
- 11:20 Chemical diversity study of *Sextonia rubra* fruits by very high-resolution mass spectrometry imaging - Marceau Levasseur (ICSN)
- 11:30 Q&A, open discussion on Session 1.

11:50 Lunch break

SESSION 2: OBSERVING BIODIVERSITY – MODERATOR: DAMIEN BONAL

- 14:00 Strategic Project Phenobs: Towards a phenology observatory in French Guiana to study climate-vegetation feedbacks and the diversity of plant strategies - Nicolas Barbier (AMAP)
- 14:20 Strategic Project METRADICA: Mechanistic traits to predict shifts in tree species abundance and distribution with climate change in the Amazonian Forest - Clément Stahl (ECOFOG) & Ghislain Vieilledent (AMAP)
- 14:40 Strategic Project Understory: An infrastructure to explore plant diversity of the Amazonian forest understory - Géraldine Derroire (ECOFOG) & Jérôme Chave (EDB)
- 15:00 DRYER Drought Resilience of seasonally flooded forest - Marion Boisseaux (ECOFOG)
- 15:10 Q&A, open discussion on Session 2.

15:30 Coffee break

- 16:00 Strategic Project NAMCO: Neotropical Aquatic eDNA Monitoring Consortium - Jérôme Murielle (EDB)
- 16:20 Office Français de la Biodiversité in French Guiana - Stéphanie Barthe
- 16:30 Q&A, open discussion with OFB

16:45 Video Screening - Visions Amérindiennes - Damien Davy (LEEISA)

17:15 End of Day 1





WEDNESDAY 5TH OCTOBER 2022

08:30 Welcome

SESSION 3: EVOLUTIONARY GENOMICS – MODERATOR: RÉGIS CÉRÉGHINO

- 09:00 Strategic Project TREEMUTATION: Mutation in the tropical tree canopy - Myriam Heuertz (BIOGECO), Niklas Tysklind (ECOFOG) & Sylvain Schmitt (ECOFOG)
09:20 They all take different paths: Into the outset of an adaptive radiation in the dyeing *Dendrobates* - Mathieu Chouteau (LEEISA)
09:30 Population genetic structure and demographic history of *Dicorynia guianensis* in French Guiana - Julien Bonnier (ECOFOG)
09:40 The domestication history of the tropical tree *Inga feuillei* in South America - Rosalía Piñeiro (BIOGECO)
09:50 Emergence and expansion of piperazine resistant malaria parasites in the Guiana Shield - Celia Florimond (IPG)
10:00 Q&A, open discussion on Session 3.

10:30 Coffee break

SESSION 4: EMERGING CHALLENGES IN HEALTH AND WILDLIFE – MODERATOR: JÉRÔME CHAVE

- 11:00 A novel species of *Brucella* causing Human brucellosis possibly linked to wild Amazonian suidae - Frédégonde About (TBIP)
11:10 Host community in mosquito species of genus *Culex* from the French Guiana Zoo - Amandine Guidez (IPG)
11:20 Study of parasitic microbiodiversity of the wild fauna in French Guiana - Adria Matoute (TBIP)
11:30 The influence of habitat on viral diversity in neotropical rodent hosts - Sourakhata Tirera (IPG)
11:40 Q&A, open discussion on Session 4.

12:00 Lunch break

SESSION 5: COASTAL ECOLOGY IN FRENCH GUIANA – MODERATOR: STÉPHANE TRAISSAC

- 14:00 Characterisation of near-shore habitats as nurseries for fish and shrimp communities - Morgana Tagliarolo (LEEISA)
14:10 Observatory of a French Guiana coastal socio-ecosystem facing instability and global changes - Fabian Blanchard (LEEISA)
14:20 Anticipating coastal changes with mangrove forests - Christophe Proisy (AMAP)
14:30 Q&A, open discussion on Session 5.

SESSION 6: EVOLUTIONARY ECOLOGY – MODERATOR: MYRIAM HEUERTZ

- 14:40 Strategic Project INTERACTIF: Interactive effects of deforestation and climate change on neotropical freshwater ecological networks and ecosystem multifunctionality - Céline Leroy (AMAP)
15:00 Underestimated species diversity of the genus *Thomasomys* (Rodentia: Cricetidae) - Dennisse Ruelas (ISEM)
15:10 Environmental and maternal effects on the phenotype of a bromeliad species - Tristan Lafont Rapnouil (AMAP)
15:20 Convergent evolution of the prehensile tail among Amazonian mammals - Arthur Naas (ISEM)
15:30 Q&A, open discussion on Session 6.
15:50 Closing and farewell.

16:10 Photo Exhibit Kalalou, des plantes et des hommes (Marc-Alexandre Tareau, Karl Joseph, Guillaume Odonne) & Closing Cocktail

OUTREACH ACTIVITIES

During the CEBA annual meeting, in addition to the conferences, you can attend two exhibits and video screenings on themes related to the CEBA:



PHOTO EXHIBIT: KALALOU, DES PLANTES ET DES HOMMES
- MARC-ALEXANDRE TAREAU, KARL JOSEPH, GUILLAUME ODONNE

The Kalalou project explores the relationship between Afro-descendant societies in Guyana and the plant world both in the physical and spiritual dimensions. The photos and texts presented here explores six themes: eating, believing, gathering, cultivating, doing and caring, and allows, from the intimacy of the home to the vastness of the forest, to perceive the richness of this local knowledge.



PHOTO EXHIBIT: LA MULTIDIMENSIONNALITÉ DE LA PLANTE
- MARION BOISSEAUX, ANTIA IGLESIAS

During the CEBA annual meetings, there will be an exhibit that explores the multidimensionality of the plant. You will explore the graphic results of an art-science collaboration between the UMR EcoFog in Kourou (French Guiana) and the University of Vigo in Galicia (Spain) presented by Marion Boisseaux and Antía Iglesias Fernández. Botanical illustrations with wood engravings of seven tropical tree species offer an understanding of the concept of "plant" using code approximation.



VIDEO SCREENING : VISIONS AMÉRINDIENNES
- DAMIEN DAVY (LEEISA)

«D'un Mythe à la réalité animée de la biodiversité» and «Anaconda, Oiseaux et Mondes sonores Wayāpi», these two animated take us through a journey with the Guyana Wayapi to better understand their vision of nature, from the original myth of the color of birds to the acoustic worlds of the forest and their whistled language.

PRACTICAL INFORMATION



LEGEND

- ◆ **Where are the breaks ?**
The breaks will be in the forecourt, between Amphi A and the building A
- ◆ **Where are the conferences ?**
The conferences will be in the Amphi A, just in front of the parking
- ◆ **Where is the lunch ?**
The lunch will be in the CROUS restaurant