



II International Workshop on Chagas Disease, triatomine vectors, *Trypanosoma cruzi*, and *Triatoma virus*

In memoriam of Dr François Noireau

Facultad de Medicina, IIBISMED-CUMETROP, Universidad Mayor de San Simón,
Cochabamba, Bolivia

September 17-20, 2012

(Program V.37)

➤ **Organizing committee**

- Lineth Garcia (UMSS, Bolivia), Simone Frédérique Brenière (IRD-MIVEGEC, France), and
- Diego M.A. Guérin (FBB-UBF (CSIC-UPV/EHU), Spain).

➤ **International steering group**

Antonieta Rojas de Arias (CEDIC, Paraguay), Patricio Diosque (Universidad Nacional de Salta, CONICET, Argentina), Marcelo Silva (Instituto de Higiene e Medicina Tropical, Portugal), Diego M.A. Guérin (FBB-UBF (CSIC-UPV/EHU), Spain), Carlos Robello (Instituto Pasteur Montevideo, Uruguay), Felipe Guhl (Universidad de los Andes, CIMPAT, Colombia), Christian Barnabé (IRD-MIVEGEC, France).

➤ **Local organizing committee**

- Lineth Garcia (UMSS, Bolivia), Rudy Parrado (UMSS, Bolivia), Maive Montaña V., Nair Montaña (UMSS, Bolivia), Mirko Rojas (CEADES/plataforma Chagas).

➤ **Editorial board**

- Gabriela Rozas-Dennis (UN Sur, Argentina) and Marcelo Silva (IHMT, Portugal).

➤ **Official languages**

- English, French, Portuguese, and Spanish.

➤ **Sponsors**

- Universidad Mayor de San Simón, Facultad de Medicina, Bolivia (UMSS); CYTED-RedTrV (Acción 209RT0364); Fundación Biofísica Bizkaia (FBB), CSIC I-COOP0080, Gobierno Vasco MV-2012-2-41, Spain; Instituto Pasteur Montevideo, Uruguay; Instituto de Investigaciones para el Desarrollo (IRD); France Coopération Internationale, Délégations Régionales de Coopération Cône Sud, Brésil, Pays Andins, France.

➤ **Workshop objectives**

- To inform interested stakeholders about the current Chagas disease burden and control strategies.
- To discuss current and future methods and technologies oriented to control triatomines and other insect vectors.
- To get feedback from associations, industry sector, and research organizations about using *Triatoma virus* as biological control agent.
- To assess research needs and cooperation opportunities between scientists working on human and animal trypanosomiasis, insect vectors and viruses.

Acknowledgements: The Organizing Committee would like to thank the sponsoring organizations for their contributions in support of this symposium.



➤ Monday, September 17

- 10h00 – 17h00** Registration
- 17h00 – 17h30** Opening Words by **Lucio González Cartagena**, Dean of the UMSS, and **Bernard Francou**, representative of the IRD in Bolivia (IRD, Bolivia)
Chair: **Lineth García** (UMSS, Bolivia)
- 17h30 – 20h30** Plenary Session in memoriam to **Dr François Noireau** (MIVEGEC-IRD, France)
Chair: **Mirko Rojas Cortez** (CEADES/Plataforma Chagas)
- 20h30** Leisure activity: **Ballet Folklórico de la UMSS**
- 21h00** Welcome Cocktail

➤ Tuesday, September 18

MORNING. Chairs: **P. Diosque** (CONICET, Argentina) and **F. Abad Franch** (Fiocruz, Amazônia, Brazil)

08h30 – 09h10 Keynote lecture 1: **Lileia Diotaiuti** (Fiocruz, Brazil):
“Padron de infestacion por especies de triatomos em Brasil”

• **SESSION 1** Chagas Disease and Triatomines

- 09h10 – 09h40** Lecture 1. **David Gorla** (CONICET, Argentina):
“El control de *Triatoma infestans* al sur del gran Chaco Americano”.
- 09h40 – 10h10** Lecture 2. **Faustino Torrico** (UMSS, Bolivia):
“Chagas: Una enfermedad globalizada”
- 10h10 – 10h40** Lecture 3. **Carlota Monroy** (USAC, Guatemala):
“Implementation and Evaluation of the Ecohealth Approach for the Control of a Native Vector of Chagas Disease in Jutiapa, Guatemala, C.A.”
- 10h40 – 11h00** Coffee break
- 11h00 – 11h30** Lecture 4. **Gabriela Rozas-Dennis** (UNS, Argentina):
“Vigilancia activa de la transmisión de la Enfermedad de Chagas: municipio y comunidad co-partícipes en el control vectorial”
- 11h30 – 12h00** Lecture 5. **Lineth García** (UMSS, Bolivia): “Distribución e importancia de los triatomos silvestres (Hemiptera: Reduviidae) para el control de la enfermedad de Chagas en Bolivia”

12h00 – 14h Lunch and poster session

AFTERNOON. Chairs: **Christian Barnabé** (IRD-MIVEGEC, France) and **Carlota Monroy** (USAC, Guatemala)

14h00 – 14h40 Keynote Lecture 2: **Patricia Dorn** (Loyola University, New Orleans, US)
“Reassessment of Species Complex Assignments of North and Central American *Triatoma* Based on Systematic Hypothesis Testing”

• **SESSION 2** Triatomines: biology, phylogeny, and geographic distribution

14h40 – 15h10 Lecture 6. **S. Frédérique Brenière** (IRD-MIVEGEC, France)
“Chagas disease: why wild populations of *Triatoma infestans* are dangerous for the health?”



15h10 – 15h40 Lecture 7. **Ana Laura Carbajal** (CONICET, Argentina): “La persistencia de *T. infestans* en unidades domiciliarias rociadas con insecticidas en el Chaco Boliviano, revelada por morfometría geométrica”

15h40 – 16h10 Lecture 8. **Paz Maria Salazar** (UNAM, México): “Importance of four species of *Triatominae* in Mexico: two inside the houses and two in the peridomiliary area”

16h10 – 16h30 Coffee break

16h30 – 17h00 Lecture 9. **Catarina Macedo** (IOC/FIOCRUZ, Brazil):
“O perfil de *Triatoma sordida* (Stål, 1857) a la luz de sua distribuição”

17h00 – 17h30 Lecture 10. **Silvia Catalá** (CONICET, Argentina):
“*Triatoma infestans* en el Chaco árido: El peridomicilio como fuente de reinfestantes al intradomicilio”

17h30 – 18h00 Lecture 11. **Fernando Abad Franch** (Fiocruz, Amazônia, Brazil):
“Detecting triatomines: challenges to field research and eco-epidemiological data analysis”

EVENING Chairs: **Ana Laura Carbajal** (CONICET, ARGENTINA) and **Catarina Macedo** (IOC/Fiocruz, Brazil)

18h00 – 19h30 Short Oral Presentations I (6 of 15 min. each)

➤ Wednesday, September 19

MORNING. Chairs: **Paz Maria Salazar** (UNAM, México) and **Ricardo Gürtler** (CONICET, Argentina)

08h30 – 09h10 Keynote Lecture 3: **Ricardo Gürtler** (CONICET, Argentina)
“The process of house reinfestation after residual spraying with pyrethroids in the Gran Chaco”

• SESSION 3 Molecular biology of *Trypanosoma cruzi*: lineages, diagnosis and virulence factors

09h10 – 09h40 Lecture 12. **Gustavo Vallejo** (UT, Colombia):
“Interacción vector-parásito: Transmisión selectiva de genotipos de *T. cruzi* y *T. rangeli*”

09h40 – 10h10 Lecture 13. **Patricio Diosque** (CONICET, Argentina):
“Estructura Filogenética y Diversidad Genética de *Trypanosoma cruzi*”

10h10 – 10h40 Lecture 14. **Juan David Ramirez** (CIMPAT, Colombia): “Molecular epidemiology of *T. cruzi*:
New insights about transmission dynamics and genetic lineages dispersal”

10h40 – 11h00 Coffee break

11h00 – 11h30 Lecture 15. **Eric Dumonteil** (UAY, México)
“Extensive diversity of *T. cruzi* discrete typing units circulating in *Triatoma dimidiata* from southern Mexico”

11h30 – 12h00 Lecture 16. **Susana Revollo** (Facultad de Farmacia, UMSA, Bolivia):
“Variabilidad genética de *T. cruzi* y drogas

12h00 – 14h Lunch and poster session

AFTERNOON. Chairs: **Antonieta Rojas de Arias** (CEDIC, Paraguay) and **David Gorla** (CONICET, Argentina)

14h00 – 14h40 Keynote Lecture 4: **Félix Rey** (IP, Francia)

• SESSION 4 *Triatoma virus*: current knowledge on its biology, distribution, and transmission

14h40 – 15h10 Lecture 17. **Gerardo Marti** (CONICET, Argentina)
“Biología y Distribución de *Triatoma virus*”



- 15h10 – 15h40** Lecture 18. **Marcelo Silva** (IHMT, Portugal):
“Potential uses of TrV in Biotechnology”
- 15h40 – 16h10** Lecture 19. **Juan David Ramirez** (CIMPAT, Colombia):
“Evaluación de la infección de TrV en diferentes especies de triatominos”
- 16h10 – 16h40** Lecture 20. **Diego M.A. Guérin** (UBF & FBB, Spain):
“Advances in structural studies on TrV: Capsid Disassembly and RNA Release”

16h40 – 17h00 Coffee break

EVENING. Chairs: **Gerardo Martí** (CONICET, Argentina) and **Patricia Juárez** (INIBIOLP, Argentina)

17h00 – 18h30 Short Oral Presentations II (8 of 15 min. each)

21h00 Workshop's Dinner (all participants)

➤ Thursday, September 20

MORNING. Chairs: **Marcelo Silva** (IHMT, Portugal) and **Silvia Catalá** (CONICET, Argentina)

09h00 – 09h40 Keynote Lecture 5: **Antonieta Rojas de Arias** (CEDIC, Paraguay):
“Trampas sensoras; Avances en la Vigilancia de Vectores de la Enfermedad de Chagas”

• SESSION 5 New technologies and strategies to control insect vectors

- 09h40 – 10h10** Lecture 21. **Patricia Juárez** (INIBIOLP, Argentina):
“Hongos entomopatógenos: una alternativa eficaz para el control de triatominos”
- 10h10 – 10h40** Lecture 22. **Pablo Bredt Torres** (Médicos Sin Fronteras, Misión Bolivia-Paraguay):
“Erradicación de la Vinchuca en la Provincia de Narciso Campero. Intervención y seguimiento del control vectorial realizado por Médicos Sin Fronteras y el Programa Nacional de Chagas de Bolivia.”
- 10h40 – 11h10** Lecture 23. **Abraham J. Gemio Alarico** (INESFLY, Bolivia):
“Microencapsulación polimérica de biocidas contra el vector de Chagas: Experiencia en el Chaco Boliviano”
- 11h10 – 11h40** Lecture 24. **Gastón Mougabure Cueto** (CIPEIN-CITEFA, Argentina):
“Resistencia y tolerancia a insecticidas en *Triatoma infestans*”

11h40 – 12h00 Coffee break

12h00 Closing of the workshop. **Diego M.A. Guérin** (UBF & FBB, Spain)

15h00-18h00: Satellite Meeting 1. Coordination meeting of the **RedTrV** consortium. Chair: **D.M.A. Guérin**

18h00-20h00: Satellite Meeting 2. Coordination meeting of the **Iberoeka** consortium. Chair: **E. Gainza** (Praxis, Spain).

Registration: wvirus.trvcbba@gmail.com

Registration fee: Participants 100U\$. Members of the sponsoring institutions 50U\$. Students 30U\$. The registration fee covers the Welcome Cocktail, coffee breaks, and the dinner of September 19th.