Background: Conventional PCR

Standardization and validation of clinical use of PCR for Trypanosoma cruzi DNA detection in Chagas disease 17 - 22 de noviembre de 2008 vorkshop & Estandarización y validación del uso clínico de la reacción en cadena de la polimerasa para detección de infección por Trypanosoma cruzi > workshop 17 – 20 de noviembre Instituto de Ingeniería Genética y Biología Molecular LaBMECh - INGEBI - CONICET Vuelta de Obligado 2490, Buenos Aires > symposium coordinacion 21 de noviembre de 9 a 18 hs Dr Alejandro G. Schijman 22 de noviembre de 10 a 18 hs LabMECH INGEBI CONICET Museo Argentino de Ciencias Naturales > inscriocion Bernardino Rivadavia secretaría Sonia Lafon Av. Angel Gallardo 470, Buenos Aires slafon@dna.uba.ar











2008. INGEBI, Buenos Aires, Argentina: first international symposium for the standardization and validation of conventional PCR for Chagas disease diagnosis.

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January 2011 | Volume 5 | Issue 1 | e931

Call for applications: quantitative PCR



RESEARCH

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- Evidence for TB/HIV
- × Antimalarial
- Visceral leisle elimination
- Community-linterventions

Application forms







Taller sobre la estandarización y validación analítica de la qPCR para cuantificar la carga de ADN de Trypanosoma cruzi en sangre periférica de pacientes con enfermedad de Chagas

Buenos Aires, Argentina - 12 al 17 de diciembre de 2011

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Workshop PAHO qPCR for Chagas disease



Main objective: to compare distinct qPCR protocols from laboratories with previous experience with qPCR for Chagas disease, in order to evaluate the best methodology.

Samples analyzed

- a) DNA from different *T. cruzi* DTUs mixed with human DNA, to construct standard curves to determine the dynamic extension for the parasite load quantification.
- b) Blood samples spiked with *T. cruzi*, to determine the Limits of Detection and Quantification (LOD and LOQ), including an exogenous internal positive control (IAC) to be used as a quality control of the DNA extraction and real time PCR.
- c) Clinical samples of Chagas disease patients with distinct geographic distribution and clinical manifestation.

Outcomes:

- ✓ Standardization and validation of a multiplex real time quantitative PCR, targeting *T. cruzi* satellite DNA and the exogenous Internal Amplification Control (IAC)
- ✓ Distribution of Standard Operating Procedures for DNA extraction and parasite load quantification from blood samples
- ✓ Strengthening of a collaboration network for research on Chagas disease

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Analytical Validation of Quantitative Real-Time PCR Methods for Quantification of *Trypanosoma* cruzi DNA in Blood Samples from Chagas Disease Patients



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