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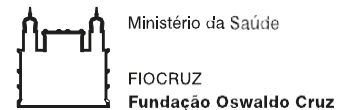
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## **1. WELCOME TO THE WORLDDLEISH7**

The logo for WorldLeish7 features the word "WORLD" in blue, with a globe icon integrated into the letter "O". Below it, the word "LEISH7" is written in red, with a green "7". A small blue fly icon is positioned to the left of the "LEISH7" text.

# WORLD LEISH7

Every four years, leishmaniacs from around the world gather in WorldLeish to discuss the latest advancements around these neglected tropical diseases and the seventh version was not an exception. In 2022, we had the participation of around 700 people, from 47 countries. Also, we had a great response from 536 students and professionals from around the world who sent us their abstracts to be part of the event as a poster or oral communications presentation and we are glad to say that we counted 195 oral presentations and 341 posters.

The experience and knowledge of the 210 speakers enriched the 44 Symposia, 8 Round Tables, 4 Special Meetings, 5 Plenary talks and 4 Successful stories that took place in those 6 days.

For Colombia and specifically the University of Antioquia, it was an honor to be the host of this Congress. And, for PECET, is a recognition for its almost 40 years of effort, research and hard work to treat leishmaniasis.

I would like to express my gratitude for your participation in this seventh version of the congress. Thanks to the knowledge and contributions, of all participants, it has been a complete success.

We know that it was not easy at all, however seeing all of you in Cartagena filled us with deep pride for the great challenge undertaken and the achievement reached.

May these events strengthen our "leishmaniac" spirit and recharge us to continue working in favor of this NTD.

Thank you very much.

With the expression of my admiration and respect.

A handwritten signature in black ink, appearing to read "Ivan Dario Vélez".

Ivan Dario Vélez  
Chair WorldLeish7



## **2. GENERAL SCHEDULE**

# WORLD LEISH7

MONDAY August 1st	Time	TUESDAY August 2nd	WEDNESDAY August 3rd	THURSDAY August 4th	FRIDAY 27 August 5th	SATURDAY August 6th
		REGISTRATION	REGISTRATION	REGISTRATION	REGISTRATION	
	7:00 - 8:00	REGISTRATION	REGISTRATION	REGISTRATION	REGISTRATION	
	8:00 - 9:00	PLENARY TALK #1	PLENARY TALK #2	PLENARY TALK#3	PLENARY TALK #4	PLENARY TALK #5
	9:00 - 9:30	SUCCESSFUL STORY #1	SUCCESSFUL STORY #2	SUCCESSFUL STORY #3	SUCCESSFUL STORY #4	COFFEE BREAK
	9:30 - 10:00	COFFEE BREAK				SPECIAL MEETING #4
	10:00 - 11:30	SATELITE SYMPOSIUMS (sessions 1 - 5)	SATELITE SYMPOSIUMS (sessions 12-16)	SATELITE SYMPOSIUMS (sessions 23-27)	SATELITE SYMPOSIUMS (sessions 33 -38)	AWARDS
	11:30 - 13:00	SATELITE SYMPOSIUMS (sessions 6 -11)	SATELITE SYMPOSIUMS (sessions 17 - 22)	SATELITE SYMPOSIUMS (sessions 28 - 44) SPECIAL MEETING #2	SATELITE SYMPOSIUMS (sessions 39 - 44)	
	13:00 - 14:00	LUNCH	LUNCH	POSTER PRESENTATION Session 3	LUNCH	CLOSING LECTURE
	14:00 - 15:30	SPECIAL MEETING #1	ROUND TABLE (1 - 4)	LUNCH/ FREE AFTERNOON		CLOSING REMARKS
14:00 - 19:00	15:30 - 16:30	ORAL COMMUNICATIONS (sessions 1 - 7)	ORAL COMMUNICATIONS (sessions 15 - 21)			
	16:30 - 17:30	POSTER PRESENTATION Session 1	POSTER PRESENTATION Session 2			
17:30 - 18:00	17:30 - 18:00	COFFEE BREAK		COFFEE BREAK		
18:00 - 19:00	18:00 - 19:00	ORAL COMMUNICATIONS (sessions 8 - 14)	ORAL COMMUNICATIONS (sessions 22 - 28)			
19:00 - 20:30		WELCOME RECEPTION				



## 5. POSTER



#### **P4-011: BACTERIAL CELLULOSE BIOCURATIVES FOR THE TOPICAL TREATMENT OF CUTANEOUS LEISHMANIASIS**

**Pedro B. Borba<sup>1</sup>, Fabiana S. Celes<sup>1</sup>, Hernane S. Barud<sup>2</sup>, Paulo R.L. Machado<sup>3,4</sup>, Edgar M. Carvalho<sup>1,4</sup>, Sayonara M. Viana<sup>1</sup>, Camila I. de Oliveira<sup>1,4</sup>**

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In Brazil, cutaneous leishmaniasis (CL) is mainly caused by *Leishmania braziliensis*. Pentavalent antimonials (Sb<sup>v</sup>) remain the first-line drug on treatment for CL despite the limitations regarding toxicity and increasing reports of therapeutic failure. Therefore, the search for alternative options for treatment that are safe, efficient and of easy application remains necessary. We have show that DETC, a SOD1 inhibitor, in association with a bacterial cellulose (BC) biocurative, reduced parasite burden and inhibited lesion development in a pre clinical model of CL caused by *L. braziliensis*. We thus hypothesized that BC biocuratives in association with DETC (BC-DETC) could act in conjunction with pentavalent antimonials to reduce the burden of disease in CL patients. To this end, we performed physicochemical characterization of BC-DETC employing scanning electron microscopy (SEM) and x-ray diffraction (XRD). In addition, we performed an *in vitro* release assay by spectrophotometry and evaluated the stability of DETC onto BC by spectrophotometry and thermogravimetry. SEM images of BC-DETC showed DETC aggregates across the entire surface. The absence of crystallographic peaks, seen by XRD analysis, indicated that DETC was successfully incorporated onto BC biocuratives. *In vitro* release experiments showed a accumulative mass release of 22% and 14%, at 5 minutes and 24 hours, respectively, indicating possible degradation of DETC. Thermogravimetry analysis complemented our findings that strongly indicating that DETC is not stable when incorporated onto BC. Despite our

# WORLD LEISH7



results showing that DETC is short lived when incorporated onto BC, as suggested by degradation experiments, we performed an initial a pilot, proof-of-concept trial, to evaluate the efficacy of topical application of BC in CL patients. A total of 20 patients were randomized in two groups assigned to receive either parenteral Sb<sup>v</sup> alone or parenteral Sb<sup>v</sup> plus topically applied BC bio-curatives. CL patients treated with Sb<sup>v</sup> + topical BC bio-curatives had a significantly higher cure rate at 60 days post initiation of treatment compared to CL patients treated with Sb<sup>v</sup> alone (P=0.01). At day 90 post initiation of treatment, cure rate was similar in the two groups as was overall healing time. Adverse effects or local reactions to topical BC application were not observed. This pilot trial shows that the potential use of a combined therapy consisting of topical BC bio-curatives and parenteral Sb<sup>v</sup> in favoring healing of CL lesions caused by *L. braziliensis*, at an early time point.

**Keywords** CHEMOTHERAPY; TOPICAL TREATMENT; BIODRESSING

