



CISDEM
CÁTEDRA IBEROAMERICANA-SUIZA
DE DESARROLLO DE MEDICAMENTOS

CISDEM NEWS

Dear colleagues,

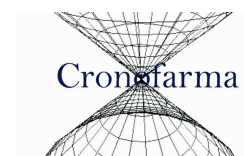
The 2010 edition of the Forum of the Iberoamerican–Swiss Centre for Development of Dosage Forms (CISDEM) has been celebrated in the House of the University of Bern (Switzerland) on September 9th under the title: *IV International Forum CISDEM “Pharmaceutical Care and the role of Pharmaceutical Technology”*.

The poster session was shared with the 3rd *Swiss Pharma Science Day*, the annual meeting organised by the Swiss Society of Pharmaceutical Sciences, with the participation of representatives of the most relevant Swiss Research Centres (including Universities and pharmaceutical companies). This joint session accomplishes very well with the objective of CISDEM of promoting contact between Academia and Pharmaceutical Industry in the Swiss and Iberoamerican regions.

An excellent representation of people from Academia and Pharmaceutical or related companies from Brazil, India, Italy, Mexico, Russia, Thailand, Spain and Switzerland attended the Forum.

We acknowledge to the collaborating entities: SGPhW, SKAN and Cronofarma, as well as the University of Bern and especially Prof. Rudolf Brenneisen, for making possible the celebration of the IV Forum CISDEM.

Collaborating entities



The IV International Forum CISDEM has explored the links between Pharmaceutical care and Pharmaceutical Technology, on the understanding that the bridges between these two fields will be very beneficial for the patients and will help to reduce the Public Health Care Costs. The presentations of Kurt Hersberger, Manuel Machuca and Maxim Puchkov (see Figures 1, 2 and 3, respectively) illustrated very well this idea.



Figure 1. Disertation of Prof. Kurt Hersberger about patient Compliance and Pharmaceutical care



Figure 2. Dr. Manuel Machuca explained how Pharmaceutical care is facing the problems derived from the increasing complexity of the drug-therapy



Figure 3. Dr. Maxim Puchkov, introduced by Prof. Leuenberger, is talking about in silico development of combination drugs

On the other hand, Prof. Alberto Ramos Cormenzana described the structure and the main activities of the Iberoamerican Academy of Pharmacy whereas Dr. Evgeny Lebedev informed us about the Russian-Swiss Science and Education Centre for Transfer of Pharmaceutical and Biopharmaceutical Technology (see Figures 4 and 5).



Figure 4. Dr. Evgeny Lebedev during his lecture



Figure 5. Hans Leuenberger acknowledges Alberto Ramos Cormenzana for his presentation.

Concerning the advances in Pharmaceutical Technology, Prof. Osvaldo Alburquerque Cavalcanti (Figure 6) showed the results of a collaboration project between two groups of the CISDEM Network, the group of the University of Navarra (Spain), directed by Prof. Juan Manuel Irache and the group of the State University of Maringá (Brazil), directed by Prof. Osvaldo Alburquerque Cavalcanti.



Figure 6. Prof. Cavalcanti (Univ. Estadual Maringá. Paraná. Brazil)

This interesting project deals with the modification of the *in vivo* behaviour of nanocapsules by means of the link of oligo- and polysaccharides to their surface to obtain colon specific delivery. Furthermore, new trends in the design of pellet formulations were discussed including the overcoming of pH dependent solubility of basic drugs using organic acids as the initial cores for the pellets formulation, presented by Isidoro Caraballo and, on the other hand, the problematic of designing pellets for ruminants and the proposal of an *in vitro* model to estimate the release behaviour in this complex gastro-intestinal tract, presented by Dr. Luz María Melgoza Contreras (Figure 7), Professor of the Autonomous Metropolitan University of Mexico.



Figure 7. Prof. Melgoza, a very active member of the CISDEM network



Figure 8. Mario R. Bielsa, during his presentation.

In agreement with the objectives of CISDEM, some companies were invited to show their innovative technologies. Besides the previously mentioned presentation of CINCAP, concerning the F-CAD in vitro simulation program, also the companies SKAN (represented by Mario Bielsa) and IMA (represented by Pierantonio Ragazzini) explained their innovations concerning isolators technology and ultrasound-assisted compression, respectively (see Figures 8 and 9).



Figure 9. Engineer Pierantonio Ragazzini from IMA S.r.l.



Figure 10. Hans Leuenberger and Isidoro Caraballo, Chairman and co-chairman of the Forum



Figure 11. Some scenes during the lunch of the IV Forum CISDEM in the fascinating house of the University of Bern.



Figure 12. House of the University of Bern



Figure 13. Rudolf Brenneisen, local organiser of the Forum (on the left) with his research team in the garden of the House of the University

Important personalities participated in the IV International Forum CISDEM, including scientific and diplomatic representatives. Between the scientific or academic authorities, we can mention the President of the Iberoamerican Academy of Pharmacy, Alberto Ramos Cormenzana, the President of the Swiss Academy of Pharmaceutical Sciences, Rudolf Brenneisen or the current President of OFIL (Organización de Farmacéuticos Ibero-Latinoamericanos), Manuel Machuca.

Furthermore, we acknowledge the presence of the Ambassadors of Cuba Mr. M.Isaac Torres, Ecuador Mr. Jaime Marchán and Minister Counsellor of Embassy of Perú Mr. José Eduardo González.



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IV INTERNATIONAL FORUM CISDEM
“PHARMACEUTICAL CARE
and
THE ROLE OF PHARMACEUTICAL
TECHNOLOGY”
Bern, September 9, 2010
House of the University
Schlösslistrasse 5, CH-3008 Bern

PROGRAMA JUEVES 9.9.2010/ THURSDAY,9.9.2010 PROGRAM:

9:30 – 10:00 h	Inauguración del IV Forum Internacional CISDEM / Inauguration of the IV International Forum CISDEM Welcome Address: Hans Leuenberger Honorary President of CISDEM. President of SGPhW and Introduction to the Forum: Isidoro Caraballo , Managing Director of CISDEM,
10:00 – 10:30 h	Kurt Hersberger Professor at the Pharmacenter of the University of Basel, PharmaSuisse Chair of Pharmaceutical Care <i>“Patient Compliance in the Focus of Pharmaceutical Care”</i>
10:30 – 11:00 h	Manuel Machuca Vice-President of OFIL (Organización de Farmacéuticos Ibero-Latinoamericanos) <i>“Pharmaceutical Care: a response to actual drug- therapy complexity”</i>
11:00 – 11:30 h	Alberto Ramos Cormenzana President of the Iberoamerican Academy of Pharmacy. Ordinary Professor. University of Granada (Spain) <i>“Actividades de la Academia Iberoamericana de Farmacia”</i>
11:30– 12:00 h	Evgeny Lebedev Russian-Swiss Science and Education Centre for Transfer of Pharmaceutical and Biopharmaceutical Technology <i>“Goals and concept of the Russian Swiss Science and Education Centre</i>
12:00 – 12:15 h	Discusión / Discussion
12:15- 13: 30 h	<i>Almuerzo de trabajo / Lunch</i>
13: 30 – 14:00 h	Maxim Puchkov and Hans Leuenberger CEO of CINCAP GmbH, resp. IFIIP GmbH, Switzerland <i>“A Proposal to reduce significantly Public Health Care Costs: Development of Combination Drugs based on Generics using Virtual R&D techniques with the goal to improve Patient Compliance”</i>
14:00 – 14:30 h	Isidoro Caraballo Head of the Iberoamerican-Swiss Centre for Development of Dosage Forms (CISDEM). University of Seville <i>“pH troubleshooting pellet formulations”</i>
14:30 – 15:00 h	Luz María Melgoza Professor of UAM (Universidad Autónoma Metropolitana). Mexico City (Mexico) <i>“Evaluación de pellets en un diseño que simula los diferentes compartimentos del estomago de ovinos”</i>
15:00 – 15:30 h	Osvaldo Albuquerque Cavalcanti Professor of the University of Maringá <i>“Oligo e polissacarídeos na obtenção de materiais para liberação colônica”</i>
15:30 – 16:00 h	Pierantonio Ragazzini Department of Innovative Technologies of IMA Srl, Bologna, Italy <i>“Ultrasound-assisted compression”</i>
16:00 – 16:30 h	Mario R. Bielsa Skan A.G. Basel, Switzerland <i>“Modern concepts of Isolator Technology”</i>

Last but not least, the celebration of this Forum in Bern has facilitated that two new research groups, have entered the Technology Transfer Network of CISDEM, one of them corresponds to the Institut Pharma Technology of the University of Applied Sciences Northwestern Switzerland, represented by Prof. Martin Kuentz, and the second one corresponding to the Research and Development Unit of the company Skan, represented by Mario R. Bielsa and Thomas Huber.

The Technology Transfer Network of CISDEM includes currently 27 Research Groups from Argentina, Brazil, Cuba, Columbia, Ecuador, El Salvador, Guatemala, Mexico, Peru, Portugal, Spain, Switzerland and Venezuela.

Please do not hesitate to contact us for more information about the Congress or about CISDEM.

With our best wishes,

Prof. Dr. Dr. h. c. mult. Hans Leuenberger

Prof. Dr. Isidoro Caraballo