



Mechanisms-Based Research to address products safety issues

Reminder: The first reference book on Computational Biophysics of the Skin now available

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Hello,

We hope it will be of some interest to you.

BMSystems discloses the first description of its [fully operational Mechanisms-Based research platform](#) that addresses the causal mechanisms of diseases and [products safety issues such as contact allergy issues](#) and in a near future could be applied to [endocrine disrupters' issues](#).

[These issues can be considered as "non-requested activation of mechanisms" part of multi-systems that are interconnected \(immunology, neurology, psychiatry, etc...\).](#)

[Understanding the right mechanisms and their cross-talks should be the first priority before developing the tests in order to be sure to identify the right culprits.](#)

With this scientific contribution, BMSystems confirms its scientific & business leadership in systems biology applied to skin physiology, a strategic domain in terms of business and R&D investments, as demonstrated by our [R&D alliance with Persistent Systems](#) (India) to propose the first integrated alternative to animal testing for contact allergy, addressing complex formulas (natural plant extracts) and low-level allergens issues. If you want to get more specific information: [click on this link](#)

BMSystems is also proud to announce that the first reference book on Computational Biophysics of the Skin was presented during the International Society for Biophysics and Imaging of the Skin (ISBIS) World Congress in June and is now [available for pre-order*](#). The table of contents is attached to this message.

BMSystems' team and Prof. Bernard Querleux (L'Oréal Research & Innovation, ISBS**) wrote the chapter "Heuristic Modeling Applied to Epidermal Homeostasis of the Skin", based on CADI™ modeling and joint research program outputs.

We hope it will be of some interest to you. It is an excellent roadmap for anyone starting in the field and also a very useful reference source for experts. We warmly invite you to share this information with your network.

Do not hesitate to contact us for feedback and comments to improve our ongoing work.

Do not hesitate to visit our website to discover our [latest news](#) in other therapeutic areas and download our company's presentation

BMSystems contributed to the reference book "[Biomarkers for psychiatric Disorder](#)" edited by Prof. Chris. Turk (Max Planck in Munich).

Best regards

Manuel GEA

Co-founder & CEO Bio-Modeling Systems

About the Editor:

Prof. Bernard Querleux is senior research associate at the Worldwide Advanced Research center of L'Oréal Research & Innovation, France. He obtained his doctorate in electronic engineering and signal processing from the University of Grenoble, France, in 1987 and his habilitation in biophysics from Paris-Sud University, France, in 1995. Since 2005, Prof.

Querleux is serving as scientific chairperson of the International Society for Biophysics and Imaging of the Skin. Apart from being an expert in functional brain imaging for the objective assessment of sensory perception, his main research interests concern the development of new non-invasive methods, including numerical modeling for skin and hair characterization.

About Bio-Modeling Systems:

BIO-MODELING SYSTEMS, a disruptive innovative company founded in 2004, is the first and, to date, the only company to successfully create in-silico heuristic models validated in-vivo. BMSystems' heuristic models, built by its biologists using an integrated IT solution called CADI™ (Computer Assisted Deductive Integration), have led to discoveries, patents, and operational businesses in the fields of infectious diseases, immunology, neurology, psychiatry, oncology, dermatology cosmetics and innovative bioprocesses for industrial biotech. BMSystems' models describe the biological phenomena involved in pathological states and provide new mechanisms to explain the cause of certain diseases, identify and select predictive biomarkers, offer new combinations of molecules and new therapeutic strategies contributing to the development of Mechanism-Based Medicine. For more information, please visit <http://www.bmsystems.net>.

CADI Applications: • Multiple-Systems Multiple-Scale Mechanisms understanding • Discovery of Causal disease mechanisms • New therapeutic strategies • New associations / combinations of existing molecules • Identification of pertinent Biomarkers • R&D project evaluation: Next phase GO / NOGO decisions. • Drug re-positioning / re-profiling / rescue • New industrial biotech processes discovery

Latest news • New approach to the analysis and understanding of autoimmunity. • R&D aging programs: skin, neurology, & a novel Parkinson therapy ready for human validation • BMSystems contributes to the "Computational Biophysics of the Skin" book • R&D Project with Persistent Systems (India) to reduce the Use of Animals in Contact Allergy Testing for cosmetics • BMSystems proposes a new oncology therapeutic paradigm to address the cancer resistance issues • BMSystems becomes a global player in the digital health business with Persistent Systems. • BMSystems & Aepodia collaborates in Fibromyalgia & Facial pain.

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* This book is available from both [CRC Press](#) and [Amazon](#)

**ISBS: International Society for Biophysics and Imaging of the Skin