

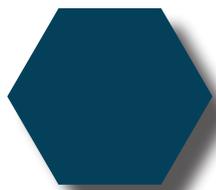


igbmc
Institut de génétique et de
biologie moléculaire et cellulaire

Structural Biology in Strasbourg, a tribute to Dino Moras

June, 12th 2019

Auditorium IGBMC



Speakers :

Pierre Chambon
IGBMC, Strasbourg Illkirch, France

Jean-Marc Egly
IGBMC, Strasbourg Illkirch, France

Jack Johnson
The Scripps Research Institute, La Jolla

Bruno Klaholz
IGBMC, Strasbourg Illkirch, France

Jean-Marie Lehn
ISIS, Strasbourg, France

Anders Liljas
CMPS, Lund University, Sweden

Jean-Louis Mandel
IGBMC, Strasbourg Illkirch, France

David Stuart
Oxford University, Oxford, UK

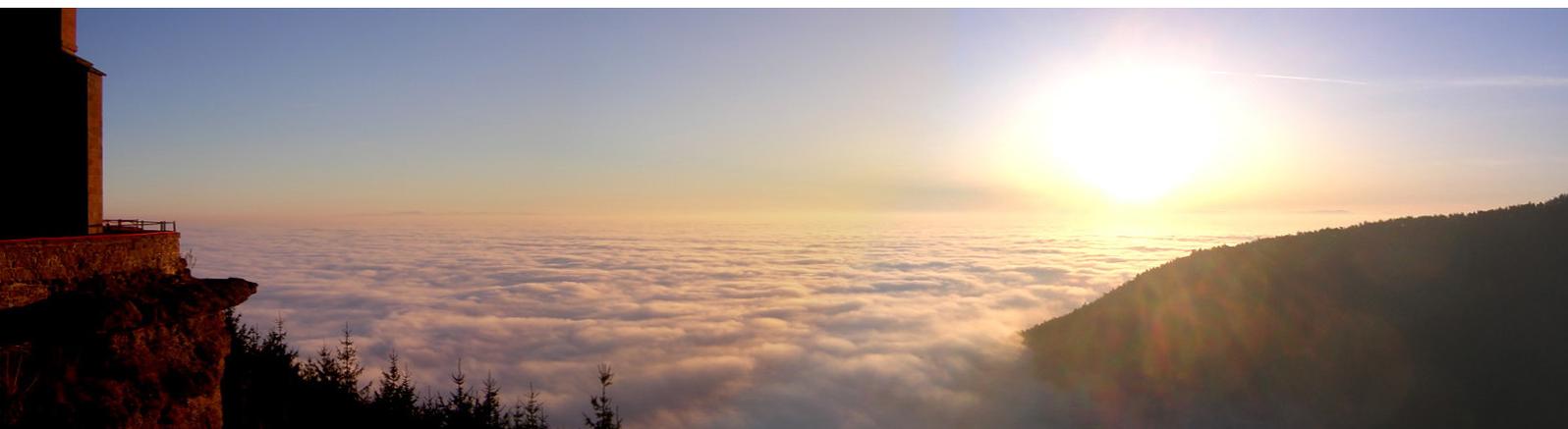
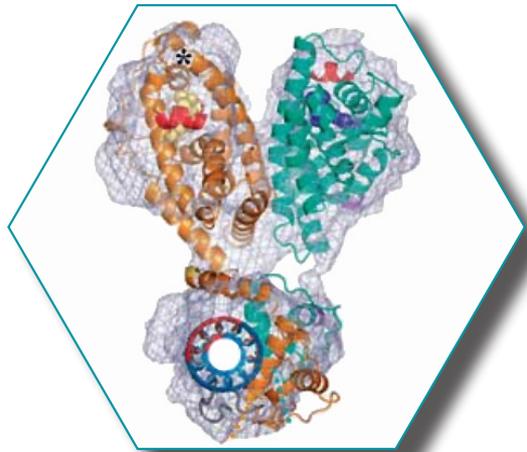
Akio Takenaka
Chiba Institute of Technology, Narashino, Japan

Eric Westhof
IBMC, Strasbourg, France

Shigeyuki Yokoyama
RIKEN, Yokohama City, Japan

Marat Yusupov
IGBMC, Strasbourg Illkirch, France

Giuseppe Zaccai
IBS, Grenoble, France



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The Institute of Genetics and Molecular and Cellular Biology (IGBMC) organizes the symposium entitled “**Structural Biology in Strasbourg, a tribute to Dino Moras**” on Wednesday, June 12, 2019 to pay tribute to the scientific endeavor of Professor Dino MORAS, a leading researcher, recognized at the international level for its expertise in Structural Biology.



Member of the French Academy of Sciences and former director of the IGBMC, **Dino Moras** introduced **biological crystallography** in Strasbourg and promoted the development of **Structural Biology** in France. With his team, he devoted himself to understanding at the atomic level, the **transmission of genetic information from DNA into proteins**. He studied the aminoacylation reaction of the transfer RNAs, one of the key steps in the translation of genetic information and highlighted in particular, the partitioning of **aminoacyl-tRNA synthetases** into two classes and determined the first atomic structure of a complex between a transfer RNA and a class II enzyme. He also elucidated the mechanism of error correction in class II synthetases.

Later focusing on the structural study of **nuclear hormone receptors** and the regulation of transcription, Dino Moras determined the first **crystallographic structure** of the ligand binding domain of a nuclear receptor, extending this discovery to **receptors of retinoids** derived from vitamin A (RXR, RAR) and that of vitamin D (VDR). He also studied the structure of different functional states of the receptors to understand their regulation mechanisms. He analyzed the architecture of these biomolecules in solution and showed the **role of DNA in the spatial organization of functional complexes**.

On the forefront of innovative technological developments, he promoted the development of **cryo electron microscopy** in Strasbourg and anticipated the driving role of this method in current structural biology.

Guest speakers will illustrate the recent achievements of this imaging method for the understanding of molecular machines in biology.

This **international conference**, that will bring together scientific colleagues and former members of his laboratory, will be an opportunity to put into perspective the various advances as well as current and future structural biology challenges around the themes that have illuminated its career.

Access to presentations and discussions will be open to all scientists.



Structural Biology in Strasbourg, a tribute to Dino Moras

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Program

9:00-12:30 Morning session

09:00-09:30 – Introduction – Moderator: Patrick Schultz

Bertrand Séraphin	IGBMC Welcome
Catherine Florentz	University of Strasbourg Welcome
Jean-Louis Mandel	Introduction

09:30-12:30 - Conferences - Moderator: Eric Westhof

09:30-09:45	<i>In memoriam</i> Michael G. Rossmann	
09:45-10:15	A journey with Dino	Jean-Marie Lehn
10:15-10:30	The versatile GU pair	Eric Westhof
10:30-11:15	Coffee break - supported by  NovAliX	
11:15-11:45	The molecular dance of life; realizing the vision	David Stuart
11:45-12:15	Biophysical Studies of an RNA Virus particle and its Maturation: Insights into an Elegantly Programmed Nano-machine	Jack Johnson
12:30-14:00	Lunch Buffet	

14:00-17:30 Afternoon session

14:00-16:45 - Conferences - Moderator: Jean Marc Egly

14:00-14:15	TFIIH, côté structure !	Jean Marc Egly
14:15-14:35	Structural Basis for Strict Selection of the Cognate tRNAs and Amino Acids by Aminoacyl-tRNA Synthetases	Shigeyuki Yokoyama
14:35-14:55	Fascinated by the translation mechanism of genes	Akio Takenaka
14:55-15:10	Neutrons and the Synthetase-tRNA dance	Giuseppe Zaccai
15:10-15:25	The enigmatic ribosome stalk	Anders Liljas
15:25-16:00	<i>Coffee break</i>	
16:00-16:20	Towards integrated structural biology of transcription and translation complexes	Bruno Klaholz
16:20-16:40	Ribosome crystallography	Marat Yusupov

16:45-17:30 - Conclusions

Pierre Chambon

Dino Moras

17:30 *Cocktail reception*





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LIBRARY PREPARATION REAGENTS		NEXTFLEX® Library Prep Kits	Library prep for Illumina® & Ion Torrent™ Sequencing Platforms
AUTOMATED LIBRARY PREPARATION		Sciclone® G3 NGsx iQ™ Workstation	Automated High-throughput Sequencing Sample Preparation
		Sciclone® G3 NGsx Workstation	Automated Benchtop Moderate to High-throughput Sequencing Sample Preparation
		Zephyr® G3 NGS Workstation	Automated Benchtop Moderate to High-throughput Sequencing Sample Preparation
		JANUS® G3 NGS Express Workstation	Automated Benchtop Low to Moderate-throughput Sequencing Sample Preparation
LIBRARY QUALITY CONTROL		LabChip® GX Touch™ Nucleic Acid Analyzer	Quantitative Size QC for DNA & RNA



L'histoire d'INFORS SARL débute en 1990, cette filiale française de la société INFORS HT assure la distribution des bioréacteurs, incubateurs agités et logiciels de bioprocédés développés et produits à Bottmingen (Suisse).

La forte créativité d'INFORS HT se traduit par la conception d'équipements de laboratoire originaux et aboutis qui posent les bases des standards technologiques du moment.

L'équipe d'INFORS France sérieuse et compétente est là pour vous servir en tant que partenaire et continue de vous garantir un support de qualité assuré par un personnel interne qualifié.

L'écoute constante des besoins du marché et l'excellence des équipes de développement d'INFORS se traduisent par la mise sur le marché en 2019 du nouvel incubateur agité Multitron, appareil de sa classe le plus performant.

Coordonnées de la filiale française d' **INFORS HT**

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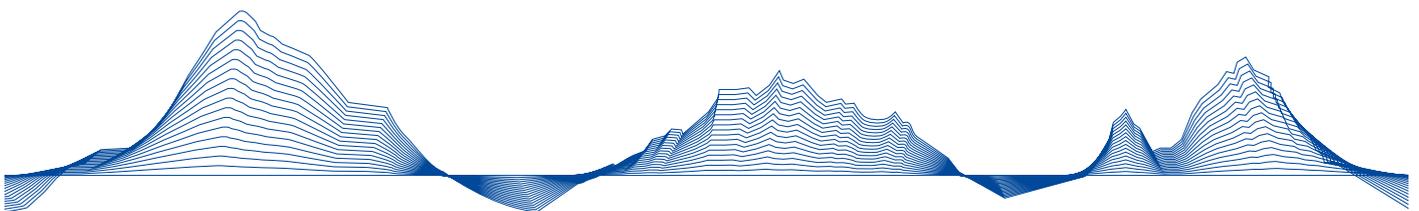
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DECTRIS is proud to
be a part of Structural
Biology at IGBMC.
Now and in the future.

