

Curriculum Vitae

Nume:	Dr. Daniel-Petru Funeriu	Adresa:	Technische Universitat Munchen, Lichtenbergstr. 4, LSAC, D-85746, Germany
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POZITIE ACTUALA:

- **Marie Curie Excellence Team Leader, Technical University Munchen. Principal Investigator** in cadrul IGGSE (International Graduate School of Science and Engineering, Technical University Munchen).

POZITII PRECEDENTE:

- **2002-2006 :** Cercetator Stiintific la **National Institute of Advanced Industrial Science and Technology (AIST)**, Osaka, Japonia (lider de proiect).
- **1999-2002 :** Cercetator stiintific la **Scripps Research Institute**, La Jolla, California.
- **1998-1999 :** Conferentiar, **Collège de France**, Paris, Franta.
- **1995-1998 :** Asistent, **Université Louis Pasteur**, Strasbourg, Franta.
- **1994 :** Stagiul stiintific (3 luni) la **Zeneca Fine Chemicals**, Huddersfield, Anglia.
- **1994 :** Stagiul stiintific (4 luni) la **Merck&Co**, Rahway, New Jersey, USA.

STUDII:

- **1995-1999 :** Teza de Doctorat, **Université Louis Pasteur**, Strasbourg.
Titlu: "Multiple-Subroutine Self-Assembly: a Concept for the Generation of Discrete, Nanoscale Architectures". Laboratorul Prof. J.-M. Lehn (**Premiu Nobel in Chimie**).
Juriu: Prof. A. von Zelewsky (Fribourg, CH), Prof J.-M. Lehn (Strasbourg, F), Prof. J. Siegel (San-Diego, USA), Prof. M. W. Hosseini (Strasbourg, F).

Clasificare: Très honorable avec félicitations écrites du jury.

- **1994-1995 :** **Universitatea Louis Pasteur**, Strasbourg :
Masterat (DEA) in chimie organica si supramoleculara. Director: Prof. J.-M. Lehn.
Subiect de cercetare: *Cataliza Supramoleculara si Chime Combinatorie Dinamica.*
Clasificare: *sef de promotie.*
- **1991-1994 :** **European Higher Institute of Chemistry**, Strasbourg, France.
Titlul obtinut: Inginer in Chimie, specializarea: Chimie Organica.

DISTINCTII ACADEMICE

- **Obtinerea unui grant de cercetare EU de aprox. 2 milioane de Euro** (Marie Curie Excellence Grant).
- **Olimpiade Nationale de Chimie:** Mai multe premii nationale intre 1984 si 1988
- **Balcaniada de Chimie 1988:** Medalie de Argint
- **Olimpiada Internationala de Chimie:** Selectionat in echipa Romaniei in 1988.
- **Olimpiada de chimie a Frantei, 1989:** Premiul II.
- **Bursa a ministerului francez al cercetarii:** 1995-1998

DOMENII DE EXPERTIZA STIINTIFICA

- Chimie organica de sinteza
- Chimie supramoleculara
- Chimia peptidelor
- Sinteza peptidica
- Chimia suprafetelor
- Sinteza in faza solida
- Expresia si purificarea de proteine
- Cristalizare de proteine
- Chimia metalelor de tranzitie
- Chimie combinatorie
- Chimie de bioconjugare
- Tehnologie de micromatrite
- Transfectia celulelor mamifere
- Adeziune celulara
- Drug design
- Cinetica enzimatica

LIMBI STRAINE

- **Perfect: Engleza si Franceza.** Bine germana si cunostinte de japoneza.

PUBLICATII STIINTIFICE MAJORE

- **1) D.-P. Funeriu, J. Eppinger, L. Denizot, M. Miyake, J. Miyake.** On-Chip Determination of Inhibition Constants Based on Affinity-Label Detection of Enzymatic Activity. *Nature Biotechnology* **2005**, *23*, pg. 622.
- **2) E. Uchimura, S. Yamada, L. Uebersax, K. Matsumoto, M. Kishi, T. Yoshikawa, D.-P. Funeriu, M. Miyake, J. Miyake.** Chip-based cell array for neuronal cell lines: influence of ECM proteins on non-viral transfection for PC12 cells. *Neuroscience Letters*, **2004**, *378*, pg. 40.
- **3) J. Eppinger, D.-P. Funeriu, L. Denizot, M. Miyake, J. Miyake.** On-Chip Determination of Inhibition Constants Based on Affinity-Label Detection of Enzymatic Activity. *Angew. Chem.* **2004**, *43*, pg. 3806.
- **4) T. Yoshikawa, E. Uchimura, M. Kishi, D.-P. Funeriu, M. Miyake, J. Miyake.** Transfection Microarray of Human Mesenchymal Stem Cells (hMSCs) and on-chip siRNA Gene Knockdown. *Journal of Controlled Release*, **2004**, *96/2*, pg. 227.

- 5) K. Kato, K. Umezawa, **D.-P. Funeriu**, M. Miyake, J. Miyake, T. Nagamune. Immobilized Culture of Non-Adherent Cells on an Oleyl poly(ethylene glycol) ether modified surface. *BioTechniques*, **2003**, 35(5), pg. 1014.
- 6) **D.-P. Funeriu**, K. Rissanen, J.-M. Lehn. Dominant/Recessive Behavior in the Expression of Molecular Information - Self-assembly of Inorganic Macrocyclic Architectures Containing Coordinatively Unsaturated Ligands. *Proc. Natl. Acad. Sci. USA*, **2001**, 98, pg. 10546.
- 7) **D.-P. Funeriu**, K. M. Fromm, J.-M. Lehn, D. Fenske. Multiple Expression of Molecular Information: Enforced Generation of Different Supramolecular Inorganic Architectures by Processing of the Same Ligand Information Through Specific Coordination Algorithms. *Chem. Eur. J.*, **2000**, 6(12), pg. 2103 (front cover).
- 8) I. Huc, M. J. Krische, **D.-P. Funeriu**, Jean-Marie Lehn. Dynamic Combinatorial Chemistry. Substrate H-bonding Directed Assembly of Receptors Based on Bipyridine-Metal Complexes. *Eur. J. Inorg. Chem.*, **1999**, 9, pg. 1415.
- 9) **D.-P. Funeriu**, J.-M. Lehn, G. Baum, D. Fenske. Double Subroutine Self-Assembly; Spontaneous Generation of a Nanocyclic Dodecanuclear Cu(I) Inorganic Architecture. *Chem. Eur. J.*, **1997**, 3(1), pg. 99 (front-cover).

This work has been highlighted on the cover of Chemical and Engineering News, June, 8, 1998, pg. 35. and in Science, 295, pg. 2400.

- 10) H. Fenniri, C. Dallaire, **D.-P. Funeriu**, J.-M. Lehn. Supramolecular Catalysis of H/D Exchange in Pyruvate by Macrocyclic Polyamines Involving a Reactive Iminium Intermediate. *J. Chem. Soc., Perkin Trans.*, **1997**, 2, pg. 2073.
- 11) **D.-P. Funeriu**, Y.-B. He, H.-J. Bister, J.-M. Lehn. Synthesis and Cu(I) Binding Properties of Two tris-bipyridine Ligands. Self-Assembly of Homostrand and Heterostrand Trinuclear Double Helical Complexes. *Bull. Chem. Soc. Fr.*, **1996**, 133, pg. 673.
- Participare ca si "Invited Speaker" sau "Keynote Speaker" la congrese internationale de chimie si biochimie, precum si la o serie de universitati si institute de cercetare din Japonia, SUA, America, Australia.

BREVETE DE INVENTIE

- On-Chip Enzyme Activity Measurement and Applications Thereof (Submitted)
- On-Chip Measurement of Enzyme Ubiquitination and Applications Thereof (Submitted)
- A New Class of Soluble β -Amyloid Binders and their use in Alzheimer Disease Treatment (Provisional Patent Application).

DIVERSE

- *Membru in Consiliul Director (2005-2006) al asociatiei Ad-Astra (www.ad-astra.ro).*
- Membru in grupul de experti pentru elaborarea « Strategiei cercetarii din Romania intre 2007 si 2013 ».
- Colaborari frecvente la posturi de Radio si cotidiene din Romania pe teme de stiinta si educatie.
- Fondator si Presedinte, (1994-1998) a Asociatiei Studentilor Romani din Strasbourg.

Referinte disponibile la cerere.