

## 1. Parteneriate europene

Nr. crt.	Denumirea programului internațional	Tară și/sau CE unități colaboratoare	Denumire proiect
1	COST	INFLPR coordonator din partea romana, 17 tari UE si asociate	B16, cost.esf.org
6.	COST	INFLPR coordonator din partea romana; M.L.Pascu vicepresedinte al rețelei; 17 tari UE si asociate	BM0701 ATENS, Antibiotic transport and efflux: new strategies to combat bacterial resistance

## 2. Lucrari stiintifice

### PUBLICATII (2008)

[1]. A. Staicu, G. Rouillé, Th. Henning, F. Huisken, D. Pouladsaz, R. Schloz, „*S<sub>1</sub>-S<sub>2</sub> transition of 2,3-benzofluorene at low temperatures in the gas phase*”, Journal of Chemical Physics no.129 (2008), pag. 074302-1-10.

[2]. R.A. Pascu, M. Trifu, M. Dumitrescu, A. Mahamound, A. Staicu, B. Carstocea, M.L. Pascu, „*In vivo studies of the effects of alkyl substituted benzo[b]pyridinium compounds exposed to optical radiation*”, Romanian Reports in Physics, no. 3 (2008) pag. 899-908.

[3]. R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, M.L. Pascu, „*Increase of Cisplatin therapeutical index through optical irradiation: a case study of choroidal metastasis*”, Romanian Reports in Physics, no. 3 (2008), pag. 877-884.

[4]. F. Huisken, G. Rouillé, M. Arold, A. Staicu, Th. Henning, „*Electronic Spectroscopy of Biological Molecules in Supersonic Jets: The Amino Acid Tryptophane*”, AIP Conference Proceedings no.1084 (2008), pag. 539-544.

### CONFERINTE (2008)

#### Nationale

[1] M.L. Pascu, „*Lasers Applications in medicine, surgery and biology: The Romanian Chapter*”, 3<sup>rd</sup> International Congress on Anti-Aging Medicine & 1<sup>st</sup> International Congress on Lasers in Medicine and surgery, May (2008), Bucharest, Romania.

[2] M.L. Pascu, A. Staicu, R. Pascu, M. Dicu, B. Carstocea, „*Optical/laser methods to fight resistance to treatment*”, 3<sup>rd</sup> International Congress on Anti-Aging Medicine & 1<sup>st</sup> International Congress on Lasers in Medicine and surgery, May (2008), Bucharest, Romania.

[3] M.L. Pascu, „*Activation of cytotoxic effect of some cytostatics through exposure at optical radiation*”, Simpozionul „Cercetare de excelenta in stiinte de baza si socio-economice”, September (2008), Iasi, Romania.

[4] M.L. Pascu, „*Multidisciplinarity in Science: Trends in the European Approach*”, Summer School & Satellite Workshops on Complexity, July (2008), Bucharest, Romania.

- [5] R. Pascu, M. Trifu, M. Dumitrescu, A. Mahamoud, A. Staicu, B. Carstocea, M.L. Pascu, "Studies of the effects of pyridinium compounds exposed to optical radiation on pseudotumoural tissues", Annual Scientific Conference of Faculty of Physics, University of Bucharest, June (2008), Bucharest, Romania.
- [6] R. Fumarel, P. Albert, A. Hurduc, N. Stafidov, M.L. Pascu, "Determination of the Pharmacokinetics of Methotrexate by Scintigraphic Monitoring of [99mTc] Pteridinic Derivatives Biodistribution", Annual Scientific Conference of Faculty of Physics, University of Bucharest, June (2008), Bucharest, Romania.
- [7] R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, M.L. Pascu, "Increase of Cisplatin therapeutical index through optical irradiation: a case study of choroidal metastasis", Annual Scientific Conference of Faculty of Physics, University of Bucharest, June (2008), Bucharest, Romania.
- [8] R. A. Pascu, M. Trifu, M. Dumitrescu, A. Mahamoud, A. Staicu, M. Dicu, D.Gazdaru, A. Smarandache, B. Carstocea, M.L. Pascu, "Effects of the alkyl substituted benzo [b]pyridinium compounds exposed to optical radiation", INDLAS Conference "MODERN LASER APPLICATIONS", May (2008), Bran, Romania.
- [9] R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, M.L. Pascu, "Increase of Cisplatin therapeutical index through optical irradiation", INDLAS Conference "MODERN LASER APPLICATIONS", May (2008), Bran, Romania.

## Internationale

- [10] M. Dicu, A. Staicu, D. Gazdaru, J. Barbe, I.R. Andrei, M.L. Pascu, "Spectral studies of some alkylphenylpyridinium compounds under UV – VIS irradiation", Summer School HRSMC- "Photochemistry (2008): Fundamentals and Applications", June (2008), Maastricht, Olanda.
- [11] M.L. Pascu, J. Barbe, M. Costache, A. Mahamoud, D. Gazdaru, M. Dicu, L. Liggieri, M. Ferrari, R. Pascu, I.R. Andrei, "Optical Beams Interactions with Medicines to Fight Resistance to Treatment", The International Congress Laser Medicine, November (2008), Florence, Italy.
- [12] R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, M.L. Pascu, "Increase of Cisplatin therapeutical index through optical irradiation", The International Congress Laser Medicine, November (2008), Florence, Italy.
- [13] R.G. Fumarel, P. Albert, A. Hurduc, N. Stafidov, M. L. Pascu, "Determination of the Pharmacokinetics of methotrexate by Scintigraphic Monitoring of [99mTc] Pteridinic Derivatives Biodistribution", The International Congress Laser Medicine, November (2008), Florence, Italy.
- [14] R.A. Pascu, A. Mahamoud, D. Gazdaru, A. Staicu, M. Dicu, I.R. Andrei, B. Carstocea, M.L. Pascu, J. Barbe, "Effects of the alkyl substituted benzo[b]pyridinium compounds exposed to optical radiation", The International Congress Laser Medicine, November (2008), Florence Italy.
- [15] I. R. Andrei, M. Ferrari, S. Rao, L. Liggieri, A. Mahamoud, M. Dicu, M.L. Pascu, "Studies about producing droplets containing cytostatics solution", The International Congress Laser Medicine, November (2008), Florence, Italy.

### **3. Activitati de doctorat desfasurate in cadrul colectivului:**

Radu Fumarel (Institutul Oncologic « Prof. Dr. Gh. Trestioreanu »).

Doctorandul Radu Fumarel a sustinut teza de doctorat intitulata « Studiul interactiei fasciculelor optice cu moleculele de citostatice utilizate in chimioterapia cancerului » si a obtinut titlul de Doctor in Fizica, specialitatea « Optica, Spectroscopie, Laseri » in decembrie 2008.