Dr.Michal Pudlak-Curriculum vitae

CURRICULUM VITAE
PERSONAL DATA:
Born at Poprad, Slovak Republic, 6-th of December, 1958, married, one children
INSTITUTIONAL AFFILIATION:
Senior Research Scientist,
Institute of Experimental Physics,
Slovak Academy of Sciences,
Watsonova 47, 043 53 Košice, Slovakia
PROFESSIONAL EXPERIENCE:
1983 M.Sc. biophysics and chemical physics, Faculty of Mathematics and Physics,Charles University Prague, Czechoslovakia (now Czech Republic)
1987-1991 postgraduate student at Moscow State University, Faculty of Biology, Department of Biophysics. Supervisor: Prof.K.V.Shaitan.
1996 PhD condensed matter physics, Faculty of Sciences, Šafarik University, Košice, Slovakia
VISITING SCIENTIST
Bogolyubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Moscow region, Russia
1997 August-November
1998 April-July
1999 May-August
2000 May-August
2001 May-August
RESEARCH AND ACADEMIC POSITIONS
1984-1986 teaching at the Veterinarian University at Kosice
1986-1987 research scientist at the Biophysical Department of the Institute of Experimental Physics, Slovak Academy of Sciences, Kosice
1991-1999 research scientist at the Biophysical Department of the Institute of Experimental Physics, Slovak Academy of Sciences, Kosice
1999- senior research scientist at the Department of Theoretical Physics, Institute of Experimental Physics, Slovak Academy of Sciences, Kosice
PhD STUDENT
R.Pincak - current

List of publications:

1. M.Pudlak,J.Hronek:A direct algebraic method of solving a nonlinear equation
acta physica slovaca 42 (1992) 3.
2. M.Pudlak,K.V.Shaitan:The influence of the dissipation of the reaction heat on the electron transport
acta physica slovaka 43 (1993) 34.
3. M.Pudlak, K.V.Shaitan:The influence of energy level fluctuation and acceptor local diffusion on electron transport in biological system
J.Biological Physics 19 (1993) 39.
4. M.Pudlak:The influence of energy levels fluctuation on the electron transport in a weakly polar solvent
Czech.J.Phys. 44 (1994) 153.
5. M.Pudlak:The influence of the molecular dynamics of exchanging groups on the

electron transfer rate
Chem.Phys.Lett. 221 (1994) 86.
6.M.Pudlak:Effect of the molecular dynamics of exchanging groups on electron transport. Stochastic Lioville equation approach.
Chem.Phys.Lett. 235 (1995) 126.
7.M.Pudlak:Nonadiabatic electron transport in a fluctuating medium
Czech.J.Phys. 46 (1996) 47.
8. M.Pudlak:Electron transfer controlled by conformational variations of a strongly dissipative system
Czech.J.Phys. 48 (1998) 293.
9. M.Pudlak:Electron transfer driven by conformational variations
J.Chem.Phys. 108 (1998) 5621.
10. M.Pudlak,V.A.Osipov:Low-angle disclination on elastic planes: a gauge theory approach
JINR Rapid Communications 5 (1998) 5.
11. M.Pudlak,V.A.Osipov:Disclination vortices in elastic media
Nonlinearity 13 (2000) 459.
12. R.Pinčák,M.Pudlak:Noise breaking the twofold symmetry of photosynthetic reaction centers: Electron transfer
Phys.Rev.E 64 (2001) 031906.
13. M.Pudlak.R.Pinčák:The role of accessory bacteriochlorophylls in the primary charge transfer in the photosynthetic reaction centers
Chem.Phys.Lett. 342 (2001) 587.
14. M.Pudlak:Primary charge separation in the bacterial reaction center: Validity of incoherent sequential model
J.Chem.Phys. 118 (2003) 1876.
15. V.A.Osipov,E.A.Kochetov,M.Pudlak:Electronic structure of carbon nanoparticles
JETP 123,N1 (2003)161.
16. M.Pudlak,R.Pincak: Modeling charge transfer in the photosynthetic reaction center
Phys.Rev.E 68 (2003) 061901.
17. R.Pincak,M.Pudlak: Electron transfer and quantum yields of charge separation in bacterial photosynthetic reaction centers, in: Mathematical Modeling&Computing in Biology and Medicine, Ed.V.Capasso, The MIRIAM Project Series, ESCULANO Pub.Co., Bologna 2003, p.434-440.

Košice, January 7, 2004

Michal Pudlak