

## Curriculum vitae

(Dr. László Nagy)

### Personal information

**Place and date of birth:** Kiskunfélegyháza, Hungary, 1957

**Marital status:** married to Dr. Erzsebet Antal, children: Tamás, Csaba, Krisztina

**Office address:** Szeged University, Department of Medical Physics and Informatics, H-6701

Szeged, P.O.Box. 655. Hungary, Tel.: (36)-(62)-544-121

E-mail: [lnagy@sol.cc.u-szeged.hu](mailto:lnagy@sol.cc.u-szeged.hu)

**Position:** Associate professor

### Education and degrees

1. *M. Sc. in biology and chemistry* at József Attila University, Szeged, Hungary, 1982. *Title of thesis:* The photosynthetic properties of *Chlorella pyrenoidosa* (supervisor: Dr. Tamás Herczeg)
2. *Dr. Univ.* in biophysics at József Attila University, Szeged, Hungary, 1984. *Title of thesis:* The physical-chemical properties of photosynthetic membranes (supervisor: Dr. Endre Lehoczki)
3. *Ph.D.* in biological science at the Hungarian Academy of Sciences, 1996. *Title of thesis:* Structure and functions in photosynthetic reaction centers of prokaryotic organisms (supervisor: Dr. Péter Maróti)

### Positions

1. *high school teacher, 1981-1987:* Mikes Kelemen High School, Battonya, Hungary.
2. *assistant professor, 1987-1990:* József Attila University, Department of Biophysics.
3. *associate professor, University of Szeged (until 2000: József Attila University), Department of Medical Physics and Informatics (until 2004: Department of Biophysics).*

### Special training, lab visits

1. Biological Research Center, Department of Plant Physiology, Szeged, Hungary, (sup. Dr. Magdolna Droppa), UNDP International Training Course on Selected Topics on Modern Molecular Biology  
-1990-91, *research fellow*
2. Imperial College of Science, Technology and Medicine, Department of Biochemistry, AFRC Photosynthesis Research Group, London, UK (head: Prof. James Barber)  
- 1991-1992, *Hungarian Academy of Sciences - Royal Society - Soros Foundation fellowship*,  
- 11/04/1994-15/04/1994, *visitor scientist*
3. Weizmann Institute of Science, Department of Biological Chemistry Rehovot, Israel (Professor Shmuel Malkin's group)  
- 05/1998-06/1998, *senior research fellow*  
- 02/2000-03/2000, *senior research fellow*
4. CNR Centro Studi Chimico-Fisico Interazione Luce Materia C/O Dip. Chimica, Università di Bari (Dr. Massimo Trotta's group)  
- 07/01/1999-11/01/1999, *NATO-CNR joint fellowship*  
- 06/09/2001-16/09/2001, *TÉT Italian-Hungarian bilateral travel grant*  
- 21/05/2002-30/05/2002, *TÉT Italian-Hungarian bilateral travel grant*  
- 04/09/2004-03/10/2004, *MTA/CNR research cooperation*  
- 17/05/2005-30/05/2005, *MTA/CNR research cooperation*  
- 01/10/2007-14/10/2007, *MTA/CNR research cooperation*  
- 23/06/2009-20/07/2009, *MTA/CNR research cooperation*

-07/07/2010-05/08/2010, MTA/CNR research cooperation

5. Kyoto University, Department of Chemistry, Japan (Prof. Masahide Terazima's group)
  - 01/08/2002-30/9/2002, Japan Society for Promotion of Science Fellowship
  - 14/07/2003-22/07/2003, Kyoto University travel grant
  - 18/02/2008-18/04/2008, Japan Society for Promotion of Science Fellowship
  - 18/08/2008-18/09/2008, NKTH, TÉT bilateral project
  - 17/04/2009-20/05/2009, NKTH, TÉT bilateral project
6. Concordia University, Department of Physics, Montreal, Canada (Prof. Laszlo Kalman's group)
  - 16/04/2007-16/07/2007, visitor scientist
7. University of Salento, Department of Material Sciences, (Prof. Livia Giotta's group)
  - 01/10/2007-14/10/2007, ERASMUS Fellowship
  - 23/06/2009- 01/07/2009, ERASMUS Fellowship
  - 07/07/2010-14/07/2010, ERASMUS Fellowship

### Teaching experience:

#### Regular courses

- *high school teaching*: biology and chemistry
- *biophysical practicals* for medical students and biology students
- "*Introduction to biophysics*" lectures for biology students
- "*Biophysics*" lectures for biology students

#### Special courses:

- "*Biophysics of photosynthesis*" for undergraduate and PhD students
- "*Experimental methods in photosynthesis research*" for undergraduate and PhD students
- "*Bacterial photosynthesis*" for Ph.D. students
- "*Time resolved absorption change measurements*" for Ph.D. students
- *Environmental physics*

#### International teaching

- "*Functions of quinones and inhibitors in reaction centers of photosynthetic bacteria*" Practical demonstration at "Spectroscopic methods in Energy Converting Membranes", International Summer School, July 1-August 14, 1993, Szeged, Hungary
- "*Flash kinetic study of electron transfer in bacterial reaction centers embedded in chromatophores, phospholipid vesicles and micells*" Practical demonstration at "Structure and dynamics of photosynthetic membranes" International Summer School, August 23-26, - 1998, Szeged, Hungary
- ERASMUS lectures at University of Salento (2007, 2009)
- diploma works for master's degree in the frame of ERASMUS (2 students from University of Salento)

Number of students for diploma works: 30 and for PhD: 2.

### Research area:

Research fields: charge separation and stabilization in photosynthetic reaction centers, photosynthetic herbicides, membrane lipids and the photosynthetic electron transport, photothermal processes (photoacoustics, transient grating), bio-nano composite materials, carbon nanotubes

Technics used: biochemical preparative methods for protein purification, steady state and time resolved (in ms and  $\mu$ s time scale) absorption spectroscopy, fluorescence spectroscopy (steady state, fl. polarisation, fluorescence induction, delayed luminescence), flash induced oxygen evolution measurements, photoacoustics, transient grating

### Publications:

Original papers in referred journals:22  
Conference proceedings: 7  
Conference abstracts in referred journals: 9  
Total: 38

Hungarian (appeared): 23

Books and handouts  
editorship: 2  
book chapters: 10

conferences: 63  
lectures abroad: 13  
total references: 229 (independent: 149)  
Impact factors: 67.848

**Memberships in societies:** Hungarian Biophysical Society,

**Knowledge of languages:** English: fluent speaking, writing and reading; Russian, German, Italian  
poor speaking and reading

Szeged, 10/08/2010

## **PUBLICATIONS**

(Dr. László Nagy)

### **I. In international referred journals**

#### **1. Original papers**

1. Nagy, L., Puskás, Á., Tandori, J., Droppa, M. és Horváth, G. (1991) Effect of DCMU on photosynthetic purple bacteria, *Photosynthetica*, 25, 167-171. IF: 0.482  
Ref.: (total: 7, independent: 0)
2. Tandori, J., Nagy, L. and Maróti, P. (1991) Semiquinone oscillation as a probe of quinone/herbicide binding in bacterial reaction centers, *Photosynthetica*, 25, 159-166. IF: 0.482  
Ref.: (total: 8, independent: 1)
3. Zhang, Z.-H., Mayes, S.R., Vass, I., Nagy, L. and Barber, J. (1993) Characterisation of the *psbK* locus of *Synechocystis* sp. PCC 6803 in terms of Photosystem II function, *Photos. Res.*, 38, 369-379, IF: 2.664  
Ref.: (total: 10, independent: 7)
4. Mayes, S.R., Dubbs, J.M., Vass, I., Hideg, E., Nagy, L., and Barber, J. (1993) Further Characterisation of the *psbH* Locus of *Synechocystis* sp. PCC 6803: Inactivation of *psbH* Impairs QA to QB Electron Transport in Photosystem 2, *Biochemistry*, 32, 1454-1465, IF: 5.109  
Ref.: (total: 68, independent: 60)
5. Nagy, L., Bálint, E., Barber, J., Ringler, A., Cook, K.M. and Maróti, P. (1995) Photoinhibition and law of reciprocity in photosynthesis, *J. Plant Physiol.*, 145, 410-415, IF: 1.088  
Ref.: (total: 23, independent: 23)
6. Tandori, J., Nagy, L., Puskás, Á., Droppa, M., Horváth, G. and Maróti, P. (1995) The IleL229->Met mutation impairs the quinone binding to the QB-pocket in reaction centres of *Rhodobacter sphaeroides*, *Photos. Res.*, 45, 135-146, IF: 2.964  
Ref.: (total: 14, independent: 3)
7. Nagy L., Fodor, E., Tandori, J., Rinyu, L. and Farkas, T. (1999) Lipids affect the charge stabilization in wild type and mutant reaction centers of *Rhodobacter sphaeroides*, *Austr. J. of Plant Physiol.*, 25, 465-473, IF: 1.143  
Ref.: (total: 9, independent: 4)
8. Brumfeld, V., Nagy L., Kiss, V. and Malkin, S. (1999) Wide-frequency hydrophone detection of laser induced photoacoustic signal in photosynthesis, *Photochem. Photobiol.*, 70, 607-615, IF: 2.768  
Ref.: (total: 5, independent: 2)
9. Tandori, J., Hideg, É., Nagy, L., Maróti, P. and Vass, I. (2001) Photoinhibition of carotenoidless reaction centers from *Rhodobacter sphaeroides* by visible light. Effects on protein structure and electron transport, *Photos. Res.*, 70, 175-184, IF: 1.739  
Ref.: (total: 13, independent: 11)
10. Nagy, L., Kiss, V., Brumfeld, V. and Malkin, S. (2001) Thermal and structural changes of photosynthetic reaction centers characterized by photoacoustic detection with a broad frequency band hydrophone, *Photochem. Photobiol.*, 74, 81-87, IF: 2.146  
Ref.: (total: 8, independent: 5)
11. Rinyu, L, Nagy, L. and Körtvélyesi T. (2001) The role of the electronic structure of quinones in the charge stabilization in photosynthetic reaction centers, *J. Mol. Struct.-Theochem*, 571, 163-170, IF: 0.919  
Ref.: (total: 3, independent: 3)
12. Halmschlager, A, J. Tandori, M. Trotta, L. Rinyu, I. Pfeiffer and L. Nagy (2002) A mathematical model for the quinone-herbicide competition in the reaction centers of *Rhodobacter sphaeroides*, *Functional Plant Biology*, 29, 1-7, IF: 1.552  
Ref.: (total: 3, independent: 1)

13. Trotta, M., Milano, F., Nagy, L., Agostiano, A. (2002) Response of membrane protein to the environment: the case of photosynthetic Reaction Centre., *Materials Science and Engineering: C*, 22, 263-267, IF: 0.185  
Ref.: (total: 11, independent: 4)
14. Agostiano, A., Mavelli, F., Milano, F., L. Giotta, L., Trotta, M., Nagy, L. and Maroti, P. (2004) pH-sensitive fluorescent dye as probe for proton uptake in photosynthetic reaction centers, *Bioelectrochemistry*, 63, 125-128, IF: 1.558  
Ref.: (total: 5, independent: 3)
15. Nagy, L., Milano, F., Dorogi, M., Trotta, M., Laczkó, G., Szebényi, K., Váró, Gy., Agostiano, A. and Maróti, P. (2004) Protein/lipid interaction in bacterial photosynthetic reaction center: The role of phosphatidylcholine and phosphatidylglycerol in charge stabilization, *Biochemistry*, 43, 12913-12923, IF: 4.221  
Ref.: (total: 19, independent: 12)
16. Dorogi, M., Milano, F., Szebényi, K., Maróti, P., Váró, Gy., Giotta, L., Agostiano, A., Trotta, M. and Nagy, L., (2005) Reaction centers in lipids, *Acta Biologica Szegediensis*, 49, 195-197. IF: 0.291
17. Márta Dorogi, Zoltán Bálint, Csilla Mikó, Bertrand Vilenó, Mirko Milas, Klára Hernádi, László Forró, György Váró and László Nagy (2006) Stabilization effect of single walled carbon nanotubes on the functioning of photosynthetic reaction centers, *J. Phys. Chem. B.*, 110, 21473-21479, IF:4.033  
Ref.: (total: 11, independent: 10)
18. Milano, F., Dorogi, M., Szebényi, K., Nagy, L., Maróti, P., Váró, Gy., Giotta, L., Agostiano, A. and Trotta, M. (2007) Enthalpy/entropy driven activation of the first interquinone electron transfer in bacterial photosynthetic reaction centers embedded in vesicles of physiologically important phospholipids, *Bioelectrochemistry*, 70, 18-22, IF: 1.052  
Ref.: (total: 2, independent: 1)
19. Milano, F.; Gerencsér, L.; Agostiano, A.; Nagy, L.; Trotta, M.; Maroti, P. (2007) Mechanism of Quinol Oxidation by Ferricenium Produced by Light Excitation in Reaction Centers of Photosynthetic Bacteria, *J. Phys. Chem. B.*, 111 (16): 4261-4270, IF:4.033  
Ref.: (total: 1, independent: 0)
20. Hiroko Ohmori, László Nagy, Márta Dorogi and Masahide Terazima (2008) Charge stabilization in reaction center protein investigated by optical heterodyne detected transient grating spectroscopy, *Eur. Biophys. J. with Biophys. Lett.*, 37, 1167-1174 (IF:2.409)  
Ref.: (total: 1, independent: 0)
21. Nagy L, Maroti P, Terazima M (2008) Spectrally silent light induced conformation change in photosynthetic reaction centers, *FEBS LETTERS*, 582, 3657-3662 (IF: 3.264)  
Ref.: (total: 1, independent: 0)
22. Nagy L., K. Hajdu, B. Fisher, K. Hernádi, K. Nagy, J. Vincze (2010) Photosynthetic Reaction Centres – from Basic Research to Application Possibilities, *Notulae Scientia Biologica*, 2(2), 07-13

## **2. Conference proceedings**

23. Tandori, J., Nagy, L. Osváth, Sz. and Maróti, P. (1995) Proton uptake and free energy changes associated with reduction of QB in Ile L229 --> Met mutant reaction center of *Rhodobacter sphaeroides*, (In. *Photosynthesis: from light to Biosphere*, Ed. Mathis, P., Kluwer Academic Publishers, Dordrecht, Netherland), Vol. I, 539-542  
Ref.: (total: 1, independent: 1)
24. Rinyu, L., Méray, N., Tandori, J., Pfeiffer, I., Maróti, P. and Nagy L. (1998) Steric and electrostatic effects on the stabilization of the secondary quinone in reaction centers, (In

Photosynthesis: Mechanisms and Effects, Ed. G. Garab, Kluwer Academic Publishers, Dordrecht, Netherland), Vol. II. pp. 833-836,

Ref.: (total: 1, independent: 1)

25. Gedey, Sz., Kecskés, Á., Fodor, E., Farkas, T. and Nagy L. (1998) Lipids affect the charge stabilization in wild type and mutant reaction centers of photosynthetic bacteria *Rhodobacter sphaeroides* (In Photosynthesis: Mechanisms and Effects, Ed. G. Garab, Kluwer Academic Publishers, Dordrecht, Netherland), Vol. II. pp. 893-896,  
Ref.: (total: 2, independent: 1)
26. Nagy, L., Kiss, V., Brumfeld, V. and Malkin, S. (2001) Thermodynamic and structural characterisation of photosynthetic reaction centers by photoacoustic detection with a broad frequency band hydrophone, Proceedings of the 17th ICA, Rome 2001.
27. Massimo Trotta, Francesco Milano, Márta Dorogi, Angela Agostiano, Gábor Laczko, Kornélia Szébenyi, György Váró, Péter Maróti, László Nagy (2004) Protein/lipid interaction in bacterial photosynthetic reaction center: the role of phosphatidylcholine and phosphatidylglycerol in charge stabilization, in: Photosynthesis: Fundamental Aspects to Global Perspectives, Section 5: Type II reaction centres: acceptor side, Eds. A. van der Est and D. Bruce, pp. 194-196
28. Francesco Milano, László Gerencsér, Angela Agostiano, Livia Giotta, László Nagy, Massimo Trotta, Péter Maróti (2004) Kinetics of proton uptake during photocycle of reaction center of photosynthetic bacteria, in: Photosynthesis: Fundamental Aspects to Global Perspectives, Section 5: Type II reaction centres: acceptor side, Eds. A. van der Est and D. Bruce, pp. 213-215
29. Nagy, L., Dorogi M., Ohmori, H., Terazima, M. and Malkin, S. (2005) Photoacoustic and thermal grating investigations of charge stabilization in reaction center protein, Proceedings of Forum Acusticum, Budapest, 2005, 790-0

### **3. Conference abstracts in referred journals**

30. Barber, J., Cook, K.M., Nagy, L., Vass, I. and Mayes, S.R. (1992) Comparison of the effect of deleting the psbO and psbH genes from *Synechocystis* sp. PCC 6803, Photos. Res. 34, 189, IF: 3.017  
Ref.: (total: 1, independent: 1)
31. Barber, J., Mayes, S.R., Nagy, L., Dubbs, J., Hideg, É. and Vass, I. (1992) Inactivation of the psbH gene in *synechocystis* 6803 and consequences to psii function, PHOTOSYNTHESIS RESEARCH 34 (1): 189-189, IF: 2.664  
Ref.: (total: 1, independent: 1)
32. Nagy, L., Kiss, V., Brumfeld, V. and Malkin, S. (2000) Thermal and structural changes of photosynthetic reaction centers characterized by wide frequency band hydrophone, Plant Physiology and Biochemistry, 38, s110 (abstract), IF: 1.292
33. Milano F, Agostiano A, Giotta L, Lopalco A, Nagy L, Maroti P, Trotta M (2004) Light-induced pH changes in reaction centres solution monitored by piranine, BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS 1658: 260-260 Suppl. S, IF: 4.431
34. Trotta M, Nagy L., Milano F, Dorogi M, Agostiano A, Laczko G, Szébenyi K, Varo G, Maroti P (2004) Protein/lipid interaction in bacterial photosynthetic reaction center: the role of phosphatidylcholine and phosphatidylglycerol in charge stabilization, BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS 1658: 263-263 Suppl. S, IF: 4.431  
Ref.: (total: 1, independent: 0)
35. Nagy, László, Omori, Hiroko, Malkin, Shmuel, Terazima, Masahide (2005) Photoacoustic and thermal grating investigations of charge stabilization in reaction center protein, Acta Acoustica united with Acoustica, S 97 (abstract)
36. Husu, I., Rinyu, L., Nagy, K., Szébenyi, K., Kortvelyesi, T., Giustini, M., Nagy, L., (2006) Relations between structure and biological affectivity for Q(B) site inhibitors of bacterial

photosynthetic reaction centers BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS  
275-276 Suppl. S. IF: 4.431

37. Milano, F; Agostiano, A; Altamura, E, Giotta L, Nagy L, Maroti P and Trotta M (2007) The lipid environment influence on spectral and kinetic properties of semiquinones in bacterial photosynthetic reaction centres, : PHOTOSYNTHESIS RESEARCH, 91, 147-147, Meeting Abstract: PS234. IF: 1.740
38. Trotta, M; De Nicolo, N; Giotta, L, Nagy L, Maroti P and Agostiano A (2007) Influence of bilayer thickness on photosynthetic Reaction Centres function, PHOTOSYNTHESIS RESEARCH, 91, 147, Meeting Abstract: PS235. IF: 1.740

Ref (total: 229, independent: 149), HI:7

IF: 67.848

## **II. Publications in Hungary**

(Hungarian)

1. Nagy Lászlóné, Nagy László (1983) Teaching cell biology, The biology teaching (Hungarian), 6: 177-180
2. Nagy László, Takács Tamás (1987) The applications of computers in biology classes, The biology teaching, 6: 177-180.
3. Nagy, L., Tandori, J., Horváth, G., Puskás, Á. és Maróti, P. (1989) Herbicide resistance of photosynthetic bacteria, Current problems of luminescence research, Vol. XII., Janus Pannonius University-MTA Pécs, Hungary, 124-130
4. Nagy, L., Tandori, J., Maróti, P. (1989) Redox reactions in photosynthetic reaction centers, Current problems of luminescence research, Vol. XII., Janus Pannonius University-MTA Pécs, Hungary, 131-137
5. Nagy László-Nagy Lászlóné (1993) Energy and life I, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 2, 9-11
6. Nagy László-Nagy Lászlóné (1993) Energy and life II, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 3, 13-16
7. Nagy László-Nagy Lászlóné (1993) Energy and life III, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 4, 16-20
8. Nagy, L., Maróti, P. (1997) From fotons to protons in photosynthetic reaction centers, József Attila University Phaculty of Science, Szeged, F-4 – F-7
9. Nagy László, Massimo Trotta (2000) Can we learn from the molecules? (Hungarian), Természet Világa 131(2), 58-61
10. Nagy László (2000) Thoughts about teaching light as enwironmemntal factor, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 4, 3-6
11. Nagy László (2000) Red or green? The biology teaching, Mozaik Oktatási Stúdió, Szeged, 4, 26-27
12. Nagy László (2001) The biological importance of temperature, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 1, 3-9.
13. Nagy László (2000) The model of greenhouse, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 5, 30-31
14. Nagy László (2001) Determination of surface tension by stalagmometer, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 3, 26-27.
15. Nagy László (2001) An experiment uder water, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 4, 30-31
16. Nagy László (2001) Simple experiments with sound and computer, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 5, 28-30
17. Nagy László (2002) What are the molecules telling us?, Természet Világa, 8, 361-363

18. Nagy László (2003) Is the use of cellular phones dangerous? The biology teaching, Mozaik Oktatási Stúdió, Szeged, 3 12
19. Nagy László (2004) Do we have to worry about the electric and magnetic field induced by the electric devices around us?, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 1, 3-12
20. Nagy László dorogi Márta (2005) The biological effects of UV light, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 1, 3-9
21. Nagy L. (2006) Why are bubbles on the wall of glass of cold freshwater? Mozaik Oktatási Stúdió, Szeged, 2, 30-21
22. Nagy L. (2008) The Nobel prize was given to Albert Szent-Gyorgyi 70 years ago, Mozaik Oktatási Stúdió, Szeged, 2, 3-6
23. Nagy L. – Vincze J. (2009) Thoughts on environmental crisis and the efforts on their solutions, The biology teaching, Mozaik Oktatási Stúdió, Szeged, 2, 3-9

### **III. Invited lectures**

1. Imperial College of Sciences, Technology and Medicine, AFRC Photosynthesis Research Group, London, UK
  - 1991: Fluorescence properties of Cyanobacteria
  - 1992: Electron transport characteristics of photosynthetic bacteria
2. CNR Centro Studi Chimico Fisico Interazione Luce Materia C/O Dip. Chimica, Bari, Italy
  - 1999: Effects on charge stabilization on photosynthetic reaction centers
  - 2002: Photoacoustic spectroscopy in photosynthesis research
3. Università Degli Studi Di Bari, Istituto Policattedra di Biochimica Medica e Chimica Medica, Bari, Italy
  - 1999: From photons to protons in bacterial reaction centers
4. Kyoto University, Department of Chemistry, Japan
  - 2002: Thermal and structural changes in photosynthetic reaction centers
  - 2003: From photons to protons in photosynthetic energy conversion
  - 2008: Photosynthetic energy conversion – from intraprotein events to proton motive force
  - 2008: Transient grating does not prove large quinone displacement in photosynthetic reaction centers
  - 2009: Spectrally silent light induced conformation change in photosynthetic reaction centers
5. University of Salento, Department of Material Sciences, Lecce
  - 2007: Thermal and structural changes in photosynthetic reaction centers
  - 2007: From photons to protons to in photosynthetic energy conversion
  - 2009: Bio-nanocomposite materials: special attention to photosynthetic reaction centers
6. Semmelweis University, Institute of Biophysics and Radiation Biology, Budapest, Hungary
  - 2009: Photosynthetic energy conversion – from basic research to practical applications (Hungarian)

### **IV. Books and handouts**

#### **1. Editor**

1. Gaál Tibor, dr. Nagy Lászlóné, dr. Nagy László (1988) Chemistry (for postgraduate teaching, Hungarian), Tankönyvkiadó, Budapest
2. Gaál Tibor, dr. Nagy Lászlóné, dr. Nagy László (1988) Workbook (for postgraduate teaching, Hungarian), Tankönyvkiadó, Budapest.

#### **2. Book chapters**

3. Maróti Péter, Ringler András (Eds, 1992) Physics Practice (for medical students, Hungarian) Albert Szent-Györgyi University Medical School, Szeged



4. Péter Maróti, András Ringler (Eds., 1994) Physics Practice (A guide for medical students) Albert Szent-Györgyi University Medical School, Szeged
5. Nagy, L., Hajdu, K., Fisher, B. and Hernádi, K. (2009) Photosynthetic reaction centers – from theoretical considerations to possible applications, in Vincze J. ed. Biophysics 36, pp. 65-84., NDP, Budapest.
6. Hajdu, K. and Nagy, L. (2010) Life conditions on Earth – environmental crisis, in Vincze J. ed. Biophysics 37, pp. 27-38., NDP, Budapest.
7. Hajdu, K. and Nagy, L. (2010) Visible light as environmental factor, in Vincze J. ed. Biophysics 37, pp. 55-66., NDP, Budapest.
8. Hajdu, K. and Nagy, L. (2010) Temperature as environmental factor, in Vincze J. ed. Biophysics 37, pp. 67-78., NDP, Budapest.
9. Hajdu, K. and Nagy, L. (2010) The biological effect of the UV light, in Vincze J. ed. Biophysics 37, pp. 117-132., NDP, Budapest.
10. Fischer B., Hajdu, K. and Nagy, L. (2010) Energy and life; the energy problems of human life, in Vincze J. ed. Biophysics 37, pp. 133-150., NDP, Budapest.
11. Hajdu, K. and Nagy, L. (2010) The biological effects of low and radio frequency electromagnetic fields, in Vincze J. ed. Biophysics 37, pp. 171-190., NDP, Budapest.
12. Hajdu, K. and Nagy, L. (2010) The harmful effects of noise and vibrations, in Vincze J. ed. Biophysics 37, pp. 171-190., NDP, Budapest.

## **VI. International and Hungarian Conferences: 63**

## **VII. Electronic**

1. Dorogi Márta, Szabéni Kornélia, Nagy László (2004) Abszorpciós kinetikai mérések alkalmazása a fotoszintetikus reakciócentrumban végbemenő elektrontranszport-folyamatok jellemzésére, <http://fotoszintezis.szbk.u-szeged.hu/fototan/htm>