

Dr. Katalin Tóth - list of publications

1. Tóth, K. (1979) Light scattering of bacterium and virus solutions. (in Hungarian) Study presented at the competition of Young Hungarian Biophysicists, Budapest.
2. Tóth, K., Fekete, A. (1980) Effect of microenvironment on the structure of bacteriophage solutions. (Light scattering study). *Acta Biochim. Biophys. Acad. Sci. Hung.* **15**, 127.
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8. Gál, M., Tóth, K. (1983) Ion effects on the structure of nucleoproteins, *Acta Biochim. Biophys. Acad. Sci. Hung.* **18**, 30.
9. Tóth, K., Fidy, J. (1983) TMP - nucleoprotein complexes and photochemical reactions . *Acta Biochim. Biophys. Acad. Sci. Hung.* **18**, 32
10. Fidy, J., Tóth, K., Rontó, Gy. (1983) The role of environmental factors in the action of furocoumarins. *Studia Biophys.* **94**, 37-39.
11. Tóth, K., Bolard, J., Rontó, Gy., Aslanian, D. (1984) UV induced small structural changes in the T7 bacteriophage studied by melting methods. *Biophys. Struct. Mech.* **10**, 229-239.
12. Tóth, K., Vuye, G., Vainer, H., Rontó, Gy., Aslanian, D. (1984) Ellipsometric studies of biological macromolecules. *J. Physique* **44**, 521-523.
13. Csik, G., Fekete, A., Fehér, K., Tóth, K. (1985) Effect of psoralen derivatives on nucleic acid - protein complexes. (in Hungarian) *Izotóptechnika* **28**, 263-264.
14. Tóth, K., Fidy, J., Fehér, K. (1985) Psoralen derivatives induced structural damages in nucleoproteins. *Acta Biochim. Biophys. Acad. Sci. Hung.* **20**, 98.
15. Rontó, Gy., Fidy, J., Fekete, A., Tóth, K., Csik, G., Gáspár, S. (1986) Structural and functional changes of bacteriophage-nucleoproteins by dark and photoreactions with furocoumarins. *Studia Biophys.* **112**, 63-70.
16. Tóth, K., Rontó, Gy. (1987) Salt effects on the bacteriophage T7. (I). *Physiol. Chem. Phys. Med. NMR.* **19**, 59-66

17. Tóth, K., Csik, G., Rontó, Gy. (1987) Salt effects on the bacteriophage T7 (II) Structure and activity changes. *Physiol. Chem. Phys. Med. NMR.* **19**, 67-74
18. Rontó, Gy., Tóth, K., Feigin, L.A., Svergun, D.I., Dembo, A.T., (1988) Symmetry and structure of bacteriophage T7. *Comput. Math. Applic.* **16**, 617-628.
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Directed theses

P. Adám (1985) Phase transitions of nucleic acids. Diplom thesis in physics, Univ Eötvös Lorand, Budapest.

M. Gál (1987) Optical methods in the structure examination of nucleoproteins. Medical doctoral thesis, Semmelweis Med. Univ., Budapest.

Z. Gugolya (1990) Application of Dynamic Light Scattering on biological systems. Diplom thesis in biophysics, Univ. Eötvös Lorand, Budapest.

V. Sauer mann: (1996) Fluorescence Resonance Energy Transfer as a detection method for DNA curvature. Diplom thesis in physics, Univ. Heidelberg

Co-directed theses

C. Steinmaier (1995): Untersuchung von Struktur und Dynamik eines DNA-Plasmids durch Lichtstreuung und Vergleich mit Brownschen Dynamik-Simulationen. Diplomarbeit, Fakultät für Physik, Uni Heidelberg.

M. Hammermann (1999): Strukturuntersuchungen mit Neutronenkleinwinkelstreuung an superhelikaler DNA und Oligonukleosomen. Dissertation, Fakultät für Physik, Ruprecht-Karls-Universität, Heidelberg.

Th. Weidemann (2002): Quantitative Untersuchung der Verteilung, Mobilität und Bindung von fluoreszenzmarkierten Histonen in vitro und in vivo mit Fluoreszenzfluktuationmikroskopie. Dissertation, Fakultät für Biologie, Ruprecht-Karls-Universität Heidelberg.

F. Hauger: Kinetik der Nukleosomenremodellierung. (2007) Dissertation, Fakultät für Biologie, Ruprecht-Karls-Universität Heidelberg

M.Silva Santisteban (2008): Chemische Fluoreszenzmarkierung von Histon H3. (2008) Diplomarbeit, Fakultät für Biologie, Ruprecht-Karls-Universität Heidelberg

M.Egyeki (2007): Photosensibilization of DNA and nucleoprotein complexes. PhD dissertation (2007) Semmelweis University Budapest

V. Böhm (started 01/2008): Einzelmolekülspektroskopische Untersuchungen der Struktur und Dynamik von Nukleosomen mit chromatinassoziierten Proteinen. Dissertation, Fakultät für Chemie, Ruprecht-Karls-Universität Heidelberg