

## ***Biomedical publications of Prof. David N. Nikogosyan, made in UCC***

### ***UV-induced nucleic acid-protein cross-linking***

1. E.N. Dobrov, D.N. Nikogosyan: UV-induced nucleic acid-protein cross-linking: manual on planning of irradiation experiments and calculation of absorbed dose and quantum yield. *Photochem. Photobiol.*, **67(3)**, 269–275 (1998)

### ***Laser photochemistry of cornea***

1. D.N. Nikogosyan, H. Görner: Towards the laser photochemistry of the cornea: studies of the most common and highly absorbing aliphatic amino acids in collagen. *J. Photochem. Photobiol. B: Biol.*, **47(1)**, 63–67 (1998)

2. D.N. Nikogosyan, H. Görner: Laser-induced photodecomposition of amino acids and peptides: extrapolation to corneal collagen. *IEEE J. Select. Topics Quant. Electron.*, **5(4)**, 1107–1115 (1999)

3. M. Mulcahy, J.G. McInerney, D.N. Nikogosyan, H. Görner: 193 nm photolysis of aromatic and aliphatic dipeptides in aqueous solution: dependence of decomposition quantum yield on the amino acid sequence. *Biol. Chem.*, **381(12)**, 1259–1262 (2000)

### ***Two-photon absorption in naphthalene vapour***

1. A.A. Ruth, A. Dragomir, D.N. Nikogosyan: Four- and two-photon absorption cross-section measurements in naphthalene vapour. *Nonl. Opt. Quant. Opt.*, **30(2)**, 103–114 (2003)