

## Curriculum vitae

Name: Euba Hunáková

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Birth: 14.8.1967 in Nitra

Nationality: Slovak

Marital status: Single

Education:

1985-1990 Biophysics, Faculty of Mathematics and Physics, Comenius University, Bratislava

1993-1996 PhD-study in Oncology, Biological Sciences, Cancer Research Institute, Slovak Academy of Sciences, Bratislava

Languages: English, French, German, Russian

Laboratory experience:

In the laboratory of laser spectroscopy at the Comenius University - studies on the lateral diffusion of lipids and proteins in biomembranes with the aid of the method FRAP (Fluorescence Recovery after Photobleaching).

At the Cancer Research Institute, division of Molecular Immunology, Bratislava - studies on cell surface antigens of normal and neoplastic cells in a cytofluorometric laboratory:

- immunocytofluorometric characterisation of new monoclonal antibodies directed to leukocyte-leukaemia cell surface antigens
- cell cycle analysis of cytokine-induced cell lines
- alterations of cell cycle and cell surface phenotype after induction of differentiation by protein-kinases inhibitors
- immunophenotyping of leukemia patients cells
- apoptosis induced by DNA-topoisomerase inhibitors, PKC inhibitors and cytotoxic drugs
- cell surface adhesion molecules: immunocytometric studies on human neoplastic cell lines
- modulation of drug-uptake in drug-sensitive and -resistant neoplastic cell lines by PKC inhibitors

- study of apoptosis in human multidrug-resistant leukemia and carcinoma cell lines in comparison with their parental drug-sensitive cell lines
- study of radiation-induced apoptosis and cell cycle alterations in human carcinoma cell lines with different radiosensitivities

At the CRC Center for Cancer Therapeutics at the Institute of Cancer Research, Belmont, Sutton - studies on apoptosis induced by *cis* and *trans* pairs of platinum complexes in cisplatin – sensitive and -resistant human ovarian carcinoma cells:

- study of morphology of normal and apoptotic cells using fluorescent microscopy
- detection of DNA fragmentation into 50kbp by field inversion gel electrophoresis (FIGE)
- in situ terminal deoxynucleotidyl transferase (TdT) assay (TUNEL) for labeling DNA strand breaks with BrdUTP.
- measurement of the expression of proteins p53 and bcl-2 by western blotting

In NIEHS/NIH, RTP, North Carolina, USA – studies on protein-DNA interactions:

- spectroscopic studies on UvrABC- DNA interactions, thermodynamics and kinetics

Current research interests:

- radiation- and drug- induced apoptosis, resistance and its modulation
- cell cycle and cell surface antigens alterations in human cancer cells
- relationships between apoptosis, cell cycle and DNA repair
- epithelial-mesenchymal transition in the model of breast carcinoma stem cells in vitro
- effect of natural compounds isothiocyanates (ITCs) on cellular mechanisms and markers associated with aggressive phenotype and treatment responsiveness in breast and ovarian cancer

Theoretical courses:

25.11 - 6.12. 1991 - Technical aspects of molecular biology, Prague

9. - 17. 9. 1994 - Third central European summer school of immunology, Košice

21.9.2008 – 31.12.2008 (3 mesiace) – Clinical trials and GCP, Clinres, s.r.o., Bratislava

19. 7. 2010 – 23. 7. 2010 – SZU Bratislava — Training School for Young researchers – Environmental fate and risk assessment of nanomaterials

Awards:

4.8. – 1.10. 1997 –ICRETT (International Cancer Technology Transfer), carried out at the CRC Center for Cancer Therapeutics at the Institute of Cancer Research, Belmont, Sutton, UK

Project: Flow cytometry in apoptosis in ovarian tumour cells

Supervisor: Prof. K.R. Harrap

30.9. 2000 – 30.9. 2002 Postdoctoral fellowship in NIEHS/NIH – National Institute of Environmental Health Sciences, RTP, NC, USA

Project: Spectroscopic studies on Uvr ABC – DNA interactions

Supervisor: Prof. Ben van Houten

Professional societies:

- UICC (Union Internationale Contre le Cancer, International Union against Cancer)
- EACR (European Association for Cancer Research)
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Evaluation of grant projects:

VEGA: 3

APVV/LPP: 1

Scientific and Organizing Committee of international conferences:

Natural Compounds in Cancer Prevention and Treatment, Smolenice, 2009

Reviewer of Journals:

Neoplasma, Tumor Biology

Member of Editorial board:

ISRN Oncology