

Curriculum Vitae

Personal particulars

Name: **Szekeres, Márta**

Date of birth: 26 March 1957

Nationality: Hungarian

Marital status: married, 2 children (1986. Zsolt, 1987. Zsuzsanna)

Place of work: Department of Physical Chemistry and Materials Science, University of Szeged

Address: H-6720 Szeged, Aradi Vt. 1.

Status: **Research fellow**

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Academic Qualifications

2003: PhD in Chemistry, University of Szeged (Hungary)

1981-1984: Doctoral degree in Chemistry, University of Szeged (Hungary)

1977-1981: M.Sc. in Chemistry, University of St Petersburg (Russia)

1971-1975: Secondary school education, Miklós Radnóti High School, Szeged (Hungary)

Positions held

2010-2014: Researcher, University of Szeged

1996-2008: Assistant professor, University of Szeged

1994-1996: Assistant teacher, University of Szeged

1990-1994: Assistant researcher, University of Szeged

1986-1990: Maternity leaves (Zsolt, Zsuzsanna)

1984-1990: Water treatment specialist, Textile Company, Szeged

1981-1984: Doctoral fellow, University of Szeged (Hungary)

Foreign institution visited

Apr 2001 - Aug 2002, Jun 2005: Katholiek Universiteit Leuven, Belgium

Nov-Oct 1993 and May-June 1994: Wageningen Agricultural University, The Netherlands

Jun 1997, Jul 1998: Forschungszentrum, Jülich, Germany

Teaching activities

Courses: Colloid Chemistry: laboratory practical and lecture (chemistry, chemistry teacher and pharmacy students)

Applied Colloid Chemistry in English: lecture and practical (pharmacy students)

Waste treatment: lecture (environmental science students)

Environmental chemistry: lecture (chemistry and environmental science students)

Polymers: laboratory practical (chemistry students)

Special courses: Biocolloids (lecture), Self-organizing structures (lecture), Soil colloids (lecture and practical), Rheology (practical)

Supervisor of diploma work of chemistry, chemistry teacher and food chemistry students.

Skills

Potentiometric acid-base titration, Langmuir-Blodgett trough, Dynamic light scattering, Laser Doppler electrophoresis, UV-VIS, FT-IR, Fluorescence spectroscopy, Rheology, AFM, SPR, OWLS, BET
Computational skills: MS Office. Power Point, modelling (Minteq)

Languages

English: intermediate spoken/written

Russian: high spoken/written (passive)

Projects/Research activity

HUSRB/1002/214/193: Bile acid nanosystems as molecule carriers in pharmaceutical applications, Dr. János Csanádi, 2011-2013

OTKA (NK 84014): Dr. Etelka Tombácz 2012-2014

NK 84014: Dr. Etelka Tombácz: Magnetically sensitive iron oxide nanoparticles for biomedical application, 2011-2012

TÁMOP-4.2.1/B-09/1/KONV-2010-0005 – Creating the Center of Excellence at the University of Szeged: Dr. Etelka Tombácz: Stabilization of magnetic nanoparticles for applications under physiological conditions, 2010-2011

GVOP AKF, GVOP – 3.1.1. –2004 – 05 – 0031/3.1.: Dr. Dékány Imre: Nanoszerkezetű kompozit gyógyszerforma kifejlesztése fehérjék terápiás hatékonyságának növelésére (Development of nanostructured composite drug formulations for enhancing the therapy efficiency of proteins), 2004-2007

BIL 04/32, B 17/04: Dr. Dékány Imre: Hybrid nanofilms based on silica or clay minerals and biopolymers, 2005-2007

B-6/00: Dr. Imre Dékány: Functional nanofilms with swelling clay minerals and porous silicas, 2000-2003

D-18/96 (UNG-016/96): Dr. Imre Dékány: Verhalten von Huminstoffen bzw. ihr Einfluss auf die Bindungsprozesse von Umweltchemikalien, 1996-1999

RET DNT: Dr. Gyula Telegdy: Therapy-aimed nerve system studies, from the molecules to the integrated nerve system function, 2005-2008.

GVOP AKF: Dr. Imre Dékány: Nanostructured composite drug formulations for enhancement of therapy efficiency of proteins, 2005-2007

Sustained-release interferon formulation for parenteral application.

1/001/2001: Dr. László Dux (University of Szeged, Biochemistry Department): Improvement of the quality of human life, through research and development of methods, equipment and techniques of in vitro diagnostics, quality control and effective utilization of test result informations, 2001-2004

T/F 42715: Dr. Márta Szekeres: Composite nanofilm preparation by adsorption of components layer-by-layer on solid substrates, 2003-2005

T 022426: Dr. Etelka Tombácz: Formation of polydisperse fractal aggregates in aqueous colloidal dispersions, 1997-2000

T006077: Dr. Etelka Tombácz: Soil colloids in aqueous electrolyte media, 1992-1994

1441/1991: Dr. Etelka Tombácz: Interaction of colloidal particles in aqueous dispersions, 1991

Publications

Co-author of 49 peer-reviewed publications and 1 book chapter.

Cumulative impact factor: 57, independent citations: 810, h-index: 17 (September 2013).

Referee experience

Reviewer for 5 peer reviewed journals.

Independent expert for OTKA proposal evaluation.

Committee member for 6 Ph.D. defences, opponent for 1 Ph.D. defence.