

Institute of Analytical Chemistry

Head of Institute

Prof. Jozef Lehotay, DSc.



Contact

Institute of Analytical Chemistry,
Faculty of Chemical and Food Technology,
Slovak University of Technology in Bratislava,
Radlinského 9, 812 37 Bratislava
tel.: +421 (2) 59 325 302, +421 (2) 59 325 286
fax: +421 (2) 52 926 043
email: jozef.lehotay@stuba.sk
http://www.fchpt.stuba.sk/generate_page.php?page_id=1746

Foreword

The Department of Analytical Chemistry was created in 1941. The Institute of Analytical Chemistry was established in January 2006 by joining the Department of Analytical Chemistry and the Department of NMR Spectroscopy and Mass Spectrometry. The Institute is directed to the perspective branches of study of the new analytical procedures and theoretical approaches aimed to the solution of various subjects predominantly of food, pharmaceutical industry and environment. The institute has achieved the top-position in the Slovak Republic, it has also developed fruitful cooperation with domestic as well as foreign institutions.

Teaching activities

Analytical Chemistry is one of the basic subjects, which are fully provided by Institute of Analytical Chemistry for all Bachelors' study programs. The Institute guarantees the subjects Analytical methods in clinical praxis and Testing and quality control. Students participate in the research in the frame of a wide variety of Bc. projects. In the graduate study our Institute directs and provides almost full teaching for the program Technical Chemistry, module Analytical Chemistry. Further it provides teaching of 15 subjects for other study programs. In PhD study the Institute guarantees the study branch Analytical Chemistry and educates 10 PhD students. The pedagogical process is performed by 6 professors, 8 associated professors, 5 assistant professors, 6 scientific-researchers and 10 Ph.D. students.

Research profile

The research is concentrated in the following areas:

- trace and ultratrace electroanalytical and spectrophotometric analysis of plenty of elements with the stress to the presence of heavy metals in complex matrices,
- trace and ultratrace analysis of volatile and semivolatile analytes in complex organic systems utilising isolation and preconcentration techniques in combination with fast GC and MS,
- utilisation of DNA biosensors to determine hazardous chemicals in trace concentration, determination of activators and inhibitors of the structural DNA damage,
- study of structure of selected compounds
- separation and determination of enantiomers.

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Radlinského 9, 812 37 Bratislava
tel.: +421 (2) 59 325 302, +421 (2) 59 325 286
fax: +421 (2) 52 926 043
email: jozef.lehotay@stuba.sk
<http://www.chtf.stuba.sk/kalch/indexe.php>

Staff

Name	Position	Phone	E-mail
Ing. Mária Andraščíková	PhD student	+421 (2) 59 325 316, +421 (2) 59 325 195	maria.andrascikova [at] stuba.sk
doc. Ing. Ernest Beinrohr, CSc.	Assoc. prof. PhD.	+421 (2) 59 325 284, +421 (2) 59 325 736	ernest.beinrohr [at] stuba.sk
Marta Benešová	Technical staff	+421 (2) 59 325 734	
doc. Ing. Eva Benická, CSc.	Assoc. prof. PhD.	+421 (2) 59 325 270, +421 (2) 59 325 195, +421 (2) 59 325 279	eva.benicka [at] stuba.sk
Ing. Katarína Beníková	PhD student	+421 (2) 59 325 276, +421 (2) 59 325 171	katarina.benikova [at] stuba.sk
prof. Ing. Dušan Bustin, DrSc.	Research fellow	+421 (2) 59 325 275	dusan.bustin [at] stuba.sk
Ing. František Čacho	PhD student	+421 (2) 59 325 736	cacho [at] atlas.sk
Ing. Adriana Ferancová, PhD.	Research fellow	+421 (2) 59 325 281, +421 (2) 59 325 171	adriana.ferancova [at] stuba.sk
Ing. Júlia Galandová	PhD student	+421 (2) 59 325 276, +421 (2) 59 325 171	julia.galandova [at] stuba.sk
Ing. Andrea Hercegová, PhD.	Assistant prof.	+421 (2) 59 325 281, +421 (2) 59 325 195	andrea.hercegovaa [at] stuba.sk
Ing. Stanislava Hlubíková	PhD student	+421 (2) 59 325 736	stanislava.hlubikova [at] stuba.sk
doc. Ing. Katarína Hroboňová, PhD.	Research fellow	+421 (2) 59 325 287, +421 (2) 59 325 735	katarina.hrobonova [at] stuba.sk
Ing. Svetlana Hrouzková, PhD.	Research fellow	+421 (2) 59 325 195	svetlana.hrouzkova [at] stuba.sk
Ing. Renáta Húšková	PhD student	+421 (2) 59 325 316, +421 (2) 59 325 195	renata.huskova [at] stuba.sk

Anna Chalupková	Technical staff	+421 (2) 59 325 734	
Ing. Antónia Janáčová	PhD student	+421 (2) 59 325 276, +421 (2) 59 325 195,	antonia.janacova [at] stuba.sk
prof. Ing. Ján Krupčík, DrSc.	Research fellow	+421 (2) 59 325 314, +421 (2) 59 325 195, +421 (2) 59 325 279	jan.krupcik [at] stuba.sk
Ing. Dáša Kružlicová	PhD student	+421 (2) 59 325 728	dasa.kruzlicova [at] stuba.sk
prof. Ing. Ján Labuda, DrSc.	prof. PhD. DSc.	+421 (2) 59 325 277, +421 (2) 59 325 171	jan.labuda [at] stuba.sk
Ing. Miroslava Lachová	PhD student	+421 (2) 59 325 722, +421 (2) 59 325 735	miroslava.lachova [at] stuba.sk
prof. Ing. Jozef Lehotay, DrSc.	prof. PhD. DSc.	+421 (2) 59 325 302, +421 (2) 59 325 286	jozef.lehotay [at] stuba.sk
Ing. Pavel Májek, CSc.	Assistant prof.	+421 (2) 59 325 311	pavel.majek [at] stuba.sk
Ing. Alena Manová, CSc.	Assistant prof.	+421 (2) 59 325 274, +421 (2) 59 325 736	alena.manova [at] stuba.sk
prof. Ing. Eva Matisová, DrSc.	Research fellow	+421 (2) 59 325 283, +421 (2) 59 325 195	eva.matisova [at] stuba.sk
Ing. Janka Memersheimerová, PhD.	Research fellow	+421 (2) 59 325 270, +421 (2) 59 325 195,	janka.mydlova [at] stuba.sk
Ing. Damián Meričko	Research fellow	+421 (2) 59 325 316, +421 (2) 59 325 735	damian.mericko [at] stuba.sk
prof. Ing. Ján Mocák, DrSc.	Research fellow	+421 (2) 59 325 278, +421 (2) 59 325 728	jan.mocak [at] stuba.sk
Ing. Katarína Repaská	PhD student	+421 (2) 59 325 270, +421 (2) 59 325 195,	katarina.repaska [at] stuba.sk
doc. RNDr. Miroslav Rievaj, CSc.	Assoc. prof. PhD.	+421 (2) 59 325 315	miroslav.rievaj [at] stuba.sk
doc. Ing. Jana Sádecká, PhD.	Assoc. prof. PhD.	+421 (2) 59 325 722	jana.sadecka [at] stuba.sk
Ing. Ivan Skačáni, CSc.	Research fellow	+421 (2) 59 325 281	ivan.skacani [at] stuba.sk
Ing. Darina Šimková	PhD student	+421 (2) 59 325 276, +421 (2) 59 325 736	darina.simkova [at] stuba.sk
Ing. Dr. Jaroslav Škubák	Research fellow	+421 (2) 59 325 313, +421 (2) 59 325 735	jaroslav.skubak [at] stuba.sk
Ing. Ivan Špánik, PhD.	Research fellow	+421 (2) 59 325 282, +421 (2) 59 325 195, +421 (2) 59 325 279	ivan.spanik [at] stuba.sk
Ing. Ľubomír Švorc	PhD student	+421 (2) 59 325 316	lubomir.svorc [at] stuba.sk
RNDr. Pavol Tarapčík, CSc.	Assistant prof.	+421 (2) 59 325 311	pavol.tarapcik [at] stuba.sk
doc. Ing. Peter Tomčík, PhD.	Research fellow	+421 (2) 59 325 313	peter.tomcik [at] stuba.sk
Ing. Jana Tóthová	PhD student	+421 (2) 59 325 722	jana.tothova [at] stuba.sk
doc. Ing. Viktor Vrábel, CSc.	Assoc. prof. PhD.	+421 (2) 59 325 285	viktor.vrabel [at] stuba.sk
Ľubica Zajacová	Technical staff	+421 (2) 59 325 302	lubica.zajacova [at] stuba.sk

Projects

Type of Project	Details 1	Details 2	Link
APVV	Project number: Title: <i>(in slovak)</i> Title: Department: Project duration: Responsible person:	APVV-20-035205 Vývoj nových metód vysokoúčinnnej kvapalinovej a plynovej chromatografie so špecifickou selektivitou na analýzu izomérov biologicky aktívnych látok. Development of new high performance liquid and gas chromatography methods with specific selectivity for analysis of biologically active compounds isomers Department of Analytical Chemistry 01.05.2006 - 30.04.2009 Prof. Ing. Jozef Lehotay, DrSc.	APVV-20-035205
APVV	Project number: Title: <i>(in slovak)</i> Title: Department: Project duration: Responsible person:	APVV-20-000705 Rýchla plynová chromatografia - hmotnostná spektrometria pre analýzu vybraných organických polutantov v environmentálnych a potravinových maticiach. Fast Gas Chromatography - Mass Spectrometry for environmental and food analysis of selected groups of organic pollutants Department of Analytical Chemistry 01.05.2006 - 31.10.2009 Prof. Ing. Eva Matisová, DrSc.	APVV-20-000705
APVV	Project number: Title: <i>(in slovak)</i> Title: Department: Project duration: Responsible person:	APVV-0057-06 Nové elektranalytické techniky a elektrochemické postupy na zvyšovanie efektivity atómovej spektroskopie – stanovenie a chemometrická charakterizácia analytov. New Electroanalytical techniques and Procedures of Improvement of Atomic Spectroscopy- Determination and Chemometrical Characterization of Analytes. Department of Analytical Chemistry 01.02.2007 - 31.12.2009 Doc. Ing. Peter Tomčík, PhD.	APVV-0057-06
APVV	Project number: Title: <i>(in slovak)</i> Title: Department: Project duration: Responsible person:	APVV-0319-07 Vývoj nových profilovacích analytických metód pre kvalitné a bezpečné potraviny. Development of novel profiling analytical methods for food quality and safety Department of Analytical Chemistry 01.09.2008 - 31.12.2010 Ing. Ivan Špánik, PhD.	APVV-0319-07
ESF	Project number: Title: <i>(in slovak)</i>	ESF/JPD 3 2005/1-041 MEDITECH -inovačný program moderných biomedicínskych technológií.	ESF/JPD 3 2005/1-041

	Title:	MEDITECH - inovative programm of modern biomedical technologies	
	Department:	Department of Analytical Chemistry	
	Project duration:	01.03.2006 - 31.10.2008	
	Responsible person:	Prof. Ing. Ján Labuda, DrSc.	
KEGA	Project number:	3/5207/07	
	Title: (<i>in slovak</i>)	Multimediálna učebnica "Analytické metódy v klinickej chémii".	
	Title:	e-Book "Analytical Methods in Clinical Chemistry"	3/5207/07
	Department:	Department of Analytical Chemistry	
	Project duration:	01.01.2007 - 31.12.2008	
	Responsible person:	Doc. Ing. Jana Sádecká, PhD.	
AV MŠ SR	Project number:	4/0103/06	
	Title: (<i>in slovak</i>)	Využitie biosenzorov, biomateriálov a biosignálov v medicíne.	
	Title:	Use of biosensors, biomaterials and biosignals in medicine.	4/0103/06
	Department:	Department of Analytical Chemistry	
	Project duration:	01.01.2006 - 31.12.2009	
	Responsible person:	Prof. Ing. Ján Labuda, DrSc.	
VEGA	Project number:	2/7074/7	
	Title: (<i>in slovak</i>)	Určenie parametrov aktivity potenciálnych inhibítorov aldózareduktázy - príspevok ku terapii chronických komplikácií diabetu.	
	Title:	Evaluation of activity parameters of potential inhibitors of aldose reductase - a contribution to therapy of chronic diabetic complications.	2/7074/7
	Department:	Department of Analytical Chemistry	
	Project duration:	01.01.2007 - 31.12.2009	
	Respons. person(STU):	Ing. Pavel Májek, PhD.	
	Responsible person:	RNDr. Magdaléna Májeková, PhD.	
VEGA	Project number:	1/0852/08	
	Title: (<i>in slovak</i>)	Využitie nanotechnológie pri tvorbe DNA a LDL biosenzorov.	
	Title:	Using of nanotechnology in preparation of DNA and LDL biosensors	1/0852/08
	Department:	Department of Analytical Chemistry	
	Project duration:	01.01.2008 - 31.12.2010	
	Responsible person:	Ing. Adriana Ferancová, PhD./Prof. Ing. Ján Labuda, DrSc.	
VEGA	Project number:	1/0827/08	1/0827/08
	Title: (<i>in slovak</i>)	Vývoj rýchlych a účinných metód analýzy organických zlúčenín, dôležitých z hľadiska kvality životného prostredia, v selektívnych jedno- a viackolónových zostavách plynovej chromatografie v spojení s hmotnostnou spektrometriou v režimoch EI/CI/NCI.	

	<p>Title: Development of fast and efficient methods of analysis in selective gas chromatographic single- and multicolumn setups hyphenated to mass spectrometry with EI/CI/NCI spectra measurements for organic compounds of environmental concern</p> <p>Department: Department of Analytical Chemistry</p> <p>Project duration: 01.01.2008 - 31.12.2010</p> <p>Responsible person: prof. Ing. Ján Krupčík, DrSc.</p>	
VEGA	<p>Project number: 1/0058/08</p> <p>Title: <i>(in slovak)</i> Analytické a termodynamické štúdium separácie opticky aktívnych látok metódou HPLC v on-line spojení s DAD, NMR a polarimetrickou detekciou. Príprava nových selektívnych sorbentov použiteľných pri príprave vzorky.</p> <p>Title: Analytical and thermodynamic study of the separation of the optically active compounds by HPLC method with on-line DAD, NMR and polarimetric detection. The preparation of new selective sorbents used for the preparation of the samples.</p> <p>Department: Department of Analytical Chemistry</p> <p>Project duration: 01.01.2008 - 31.12.2010</p> <p>Responsible person: prof. Ing. Jozef Lehotay, DrSc.</p>	1/0058/08
VEGA	<p>Project number: 1/0318/08</p> <p>Title: <i>(in slovak)</i> Kombinácia fluorescenčnej spektroskopie a chemometrie pre analýzu mnohozložkových zmesí.</p> <p>Title: Fluorescence Spectroscopy Combined with Chemometrics for Analysis of Multi-component Mixtures.</p> <p>Department: Department of Analytical Chemistry</p> <p>Project duration: 01.01.2008 - 31.12.2010</p> <p>Responsible person: doc. Ing. Jana Sádecká, PhD.</p>	1/0318/08
VEGA	<p>Project number: 1/0500/08</p> <p>Title: <i>(in slovak)</i> Nové elektroanalytické techniky na stanovenie stopových koncentrácií a chemických foriem arzenu, antimónu a selénu vo vodách pre použitie v laboratóriách i v teréne.</p> <p>Title: New electroanalytical techniques for routine determination of trace concentrations and speciation analysis of arsenic, antimony and selenium in water for laboratory and field applications</p> <p>Department: Department of Analytical Chemistry</p> <p>Project duration: 01.01.2008 - 31.12.2010</p> <p>Responsible person: Doc. Ing. Ernest Beinrohr, CSc.</p>	1/0500/08

List of bachelor (BT), diploma (DT) and dissertation (DissT) theses

Type	Final thesis	Supervisor	Link
BT	Bc. Alexandra Pažitná	Ing. Ivan Špánik, PhD.	➔ <input type="text"/>
	Analytické metódy pre charakterizáciu prchavých zlúčenín v alkoholických nápojoch z borievok.		<input type="text"/>
DT	Ing. Silvia Ondreková	prof. Ing. Eva Matisová, DrSc.	➔ <input type="text"/>
	Využitie rýchlej GC-MS na analýzu vybraných endokrinných disruptorov		<input type="text"/>
DT	Ing. Mária Andraščíková	Ing. Andrea Hercegová, PhD.	➔ <input type="text"/>
	Analýza rezíduí pesticídov vo vodách rýchlou GC-MS		<input type="text"/>
DT	Ing. Katarína Beníková	Ing. Adriana Ferancová, PhD.	➔ <input type="text"/>
	Nanoštrukturované DNA biosenzory pre hodnotenie poškodenia DNA		<input type="text"/>
DT	Ing. Roman Hudec	doc. Ing. Ernest Beinrohr, CSc.	➔ <input type="text"/>
	Využitie automatizovaného elektrochemického meracieho systému na bezobslužné monitorovanie škodlivín vo vodách		<input type="text"/>
BT	Bc. Zuzana Hyravá	doc. Ing. Eva Benická, CSc.	➔ <input type="text"/>
	Kvantitatívna analýza halogenovaných fenolov metódou GC-MS a GC-ECD		<input type="text"/>
BT	Bc. Veronika Kocková	Ing. Andrea Hercegová, PhD.	➔ <input type="text"/>
	Stanovenie rezíduí pesticídov vo vode rýchlou GC		<input type="text"/>
BT	Bc. Jana Grancová	Ing. Adriana Ferancová, PhD.	➔ <input type="text"/>
	Využitie elektrochemického biosenzora pri hodnotení antioxidačnej aktivity potravín		<input type="text"/>
BT	Bc. Jana Riecka	prof. Ing. Ján Labuda, DrSc.	➔ <input type="text"/>
	In vitro redoxný metabolizmus a účinky niektorých potravinových aditív, liečiv a polutantov sledované pomocou DNA elektrochemického biosenzora		<input type="text"/>
DT	Ing. Lucia Nosáľová	Ing. Ivan Špánik, PhD.	➔ <input type="text"/>
	CGC separation of volatile organic compounds present in dairy products.		<input type="text"/>
DT	Ing. Sylvia Cifrová	doc. Ing. Ernest Beinrohr, CSc.	➔ <input type="text"/>
	Vnútroelektródová coulometrická titrácia na stanovenie oxidu chloričitého v pitných vodách		<input type="text"/>
BT	Bc. Lukáš Lauko	doc. Ing. Ernest Beinrohr, CSc.	➔ <input type="text"/>
	Stanovenie rezíduí dezinfekčných prostriedkov v pitnej vode metódou prietokovej coulometrie		<input type="text"/>
DT	Ing. Lýdia Pokorná	doc. Ing. Eva Benická, CSc.	➔ <input type="text"/>
	Optimalizácia podmienok selektívnej analýzy skupín substituovaných fenolov plynovou chromatografiou		<input type="text"/>
BT	Bc. Diana Markechová	doc. Ing. Jana Sádecká, PhD.	➔ <input type="text"/>
	Využitie fluorescenčnej spektrometrie pri analýze potravinových vzoriek		<input type="text"/>
DissT	Ing. Milan Střelec	doc. Ing. Ernest Beinrohr, CSc.	<input type="text"/>
	Elektrochemické predkoncentračné metódy pre atómovú spektroskopiu		<input type="text"/>
DissT	Ing. Michal Kirchner	prof. Ing. Eva Matisová, DrSc.	<input type="text"/>
	Rýchla plynová chromatografia v kombinácii s hmotnostnou spektrometriou v stopovej a ultrastopovej analýze. Využitie v analýze rezíduí pesticídov		<input type="text"/>

DissT	Ing. Júlia Galandová	prof. Ing. Ján Labuda, DrSc.	
	Vývoj DNA biosenzorov ako analytických skriningových zariadení		
DissT	Ing. Dáša Kružlicová	prof. Ing. Ján Mocák, DrSc.	
	Mnohorozmerná analýza potravinárskych komodít		
DissT	Ing. Miroslava Lachová	prof. Ing. Jozef Lehotay, DrSc.	
	Vývoj nových predkoncentračných techník pri stanovení niektorých enantiomérov organických zlúčenín metódou HPLC v biologických vzorkách		
DissT	Ing. Damián Meričko	prof. Ing. Jozef Lehotay, DrSc.	
	Termodynamické štúdium enantioseparácie enantiomérov niektorých organických látok použitím HPLC		

Selected publications

Sádecká, Jana [100%] - Netriová, Jana [neuv.%]: Analytické metódy v klinickej chémii. - : STU v Bratislave, 2008. - 272s. - ISBN 978-80-227-2821-8

Galandová, Júlia [50%] - Ziyatdinova, Guzel [30%] - **Labuda, Ján** [20%]: Disposable electrochemical biosensor with multiwalled carbon nanotubes-chitosan composite layer for the detection of deep DNA damage. In: Analytical Sciences. - 24-6 (2008), s. 711-516, [Project number: APVT-20-015904. - 4/0103/06. - 1/2462/05]

Hroboňová, Katarína [60%] - **Lehotay, Jozef** [20%] - Čižmárik, Jozef [20%]: Determination of some phenolic acids in propolis by an HPLC method. In: Journal of Liquid Chromatography and Related Technologies. - 31-8 (2008), s. 1213-1226

Janáčková, Antónia [25%] - Sádecká, Jana [20%] - **Kohajdová, Zlatica** [10%] - **Špánik, Ivan** [45%]: The Identification of Aroma-Active Compounds in Slovak Brandies Using GC-Sniffing, GC-MS and Sensory Evaluation. In: Chromatographia. - ISSN 0009-5893. - 67 (2008), s. 113-121

Kirchner, Michal [30%] - **Húšková, Renáta** [30%] - **Matisová, Eva** [30%] - **Mocák, Ján** [10%]: Fast gas chromatography for pesticide residues analysis using analyte protectants. In: Journal of Chromatography. - ISSN 0021-9673. - A 1186 (2008), s. 271-280

Krupčík, Ján [20%] - **Mydlová-Memersheimerová, Janka** [60%] - **Májek, Pavel** [10%] - **Šimon, Peter** [10%] - Armstrong, Daniel W. [1%]: Methods for studying reaction kinetics in gas chromatography, exemplified by using the 1-chloro-2,2-dimethylaziridine interconversion reaction. In: Journal of Chromatography. - ISSN 0021-9673. - A 1186 (2008), s. 144-160, [Project number: APVV-20-035205. - 1/2461/05]

Mydlová-Memersheimerová, Janka [84%] - **Krupčík, Ján** [14%] - Korytár, Peter [1%] - Sandra, Pat [1%]: On the use of computer assisted resolution of non-separable peaks in a congener specific polybrominated diphenyl ethers capillary GC analysis. In: Journal of Chromatography. - ISSN 0021-9673. - A 1147 (2007), s. 95-104, [Project number: APVV-20-035205. - 1/2461/05]

Rievaj, Miroslav [40%] - **Tomčík, Peter** [20%] - **Jánošíková, Zuzana** [20%] - **Bustin, Dušan** [10%] - Compton, R.G [10%]: Trace Determination of Manganese(II) in Pharmaceutical Supplements by Cathodic Stripping Voltammetry on Bare Carbon Paste Electrode. In: Chemia analityczna. - ISSN 0009-2223. - 53-2 (2008), s. 153-161

Sádecká, Jana [60%] - **Májek, Pavel** [30%] - **Tóthová, Jana** [30%]: CE Profiling of Organic Acids in Distilled Alcohol Beverages Using Pattern Recognition Analysis. In: Chromatographia. - ISSN 0009-5893. - 67 (2008), S69-S74

Zapadlo, Michal [40%] - **Benická, Eva** [20%] - **Mydlová-Memersheimerová, Janka** [10%] - Vítková, Kateřina [10%] - **Krupčík, Ján** [20%]: Using ionic liquids for separation in gas chromatography. In: Chemické listy. - ISSN 0009-2770. - Vol. 101 (2007), s. 241-245

Ziyatdinova, Guzel [50%] - **Galandová, Júlia** [30%] - **Labuda, Ján** [20%]: Impedimetric nanostructured disposable DNA-based biosensors for the detection of deep DNA damage and effect of antioxidants. In: International Journal of Electrochemical Science. - ISSN 1452-3981. - 3 (2008), s. 223-235, [Project number: APVT-20-015904. - 4/0103/06]

Ferancová, Adriana [60%] - **Labuda, Ján** [40%]: DNA biosensors based on nanostructured materials. In: Nanostructured Materials in Electrochemistry, Eftekhari, Ed., WILEY-VCH Verlag. - , 2008. - ISBN 978-3-527-31876-6. - S. 409-434

Húšková, Renáta [34%] - **Matisová, Eva** [33%] - **Kirchner, Michal** [33%]: Fast GC-MS Pesticide Multiresidue Analysis of Apples. In: Chromatographia , ISSN 0009-5893. -68 (2008), s. 49-55

Mydlová-Memersheimerová, Janka [58%] - **Krupčík, Ján** [10%] - **Májek, Pavel** [10%] - **Skačáni, Ivan** [10%] - **Jakubík, Tibor** [10%] - Sandra, Pat [1%] - Armstrong, Daniel W. [1%]: Gas chromatographic determination of interconversion energy barrier for dialkyl-2,3-pentadienedioate enantiomers. In: Journal of Chromatography. - ISSN 0021-9673. - A 1150 (2007), s. 124-130, [Project number: APVV-20-035205. - 1/2461/05]

Department of NMR Spectroscopy and Mass Spectrometry

Head of Department **Assoc. Prof. Tibor Liptaj, PhD.**



Contact

Department of NMR Spectroscopy and Mass Spectrometry
Institute of Analytical Chemistry,
Faculty of Chemical and Food Technology,
Slovak University of Technology in Bratislava,
tel.: +421 (2) 52 495 788, +421 (2) 52 631 255
fax: +421 (2) 52 926 018
email: tibor.liptaj@stuba.sk
<http://www.chtf.stuba.sk/cl/indexe.php>, <http://www.nmr.sk/>

Staff

Name	Position	Phone	E-mail
Mgr. Ladislav Bačiak	Research fellow	+421 (2) 59 542 665, +421 (2) 59 542 765	baciak [at] is.stuba.sk
Ing. Tibor Jakubík, CSc.	Research fellow	+421 (2) 59 325 417	tibor.jakubik [at] stuba.sk
Ing. Kristína Kačmarská	PhD student		xkacmarska [at] is.stuba.sk
RNDr. Svatava Kašparová	Research fellow	+421 (2) 207 09 384	svatava.kasparova [at] stuba.sk
doc. Ing. Tibor Liptaj, CSc.	Assoc. prof. PhD.	+421 (2) 52 495 788, +421 (2) 52 631 255	tibor.liptaj [at] stuba.sk
Mária Mravcová	Technical staff	+421 (2) 52 926 018, +421 (2) 59 325 452	maria.mravcova [at] stuba.sk
Ing. Agáta Ondrejková	PhD student		xondrejkova [at] is.stuba.sk
Eva Pappová	Technical staff	+421 (2) 52 926 018, +421 (2) 59 325 452	eva.pappova [at] stuba.sk
RNDr. Nadežda Prónayová	Research fellow	+421 (2) 52 631 256, +421 (2) 59 325 454	nadezda.pronayova [at] stuba.sk
Ing. Miroslav Srbecký	Research fellow	+421 (2) 59 542 762	
Ing. Walter Weis	Research fellow	+421 (2) 52 926 018, +421 (2) 59 325 452	walter.weis [at] stuba.sk

Projects

Type of Project	Details 1	Details 2	Link
VEGA	<p>Project number: 2/0093/08</p> <p>Title: (in slovak) Následky akútnej ischémie mozgu v závislosti od veku zvierat a ich ovplyvnenie pyridoidolmi a inými oxidantami</p> <p>Title: Consequences of acute brain ischemia in relation to the age of animals and the effect of pyridoidones and other antioxidants.</p> <p>Department: Department of NMR Spectroscopy and Mass Spectrometry</p> <p>Project duration: 01.01.2008 - 31.12.2010</p> <p>Responsible person: Doc. Ing. Tibor Liptaj, CSc.</p>		2/0093/08
APVV	<p>Project number: 51-017905</p> <p>Title: (in slovak) Molekulové mechanizmy pôsobenia nových liečiv, ovplyvňujúcich oxidačný stres - významný etiopatogenický faktor početných chorôb</p> <p>Title: Molecular mechanisms of the new drugs affecting oxidative stress - the important factor of the number of illnesses</p> <p>Department: Department of NMR Spectroscopy and Mass Spectrometry</p> <p>Project duration: 01.03.2006 - 31.03.2009</p> <p>Responsible person: Doc. Ing. Tibor Liptaj, CSc.</p>		51-017905
SP	<p>Project number: 2003SP200280203</p> <p>Title: (in slovak) Dobudovanie špičkového laboratória so zameraním na nukleárnu magnetickú rezonanciu</p> <p>Title: Establishment of the Top-Class Nuclear Magnetic Resonance Laboratory</p> <p>Department: Department of NMR Spectroscopy and Mass Spectrometry</p> <p>Project duration: 01.06.2003 - 31.12.2010</p> <p>Responsible person: Doc. Ing. Tibor Liptaj, CSc.</p>		2003SP200280203

List of bachelor (BT), diploma (DT) and dissertation (DissT) theses

Type	Final thesis	Supervisor	Link
DissT	RNDr. Svatava Kašparová	doc. Ing. Tibor Liptaj, CSc.	
	Analýza kreatín kinázového systému v patologickom mozgu pomocou prenosu magnetizácie 31-P NMR		

Selected publications

Liptaj, Tibor [100%]: Nuclear Magnetic Resonance. In: Mitochondrial Medicine. - , 2008. - ISBN 978-1-4020-6713-6. - S. 279-302