

Curriculum vitae (CV)

Personal information	
First name, last name	Ilva, Nakurte
Birth data	3rd March 1981
Education	
<p>1999.-2003. Bachelor's degree of natural Science, Department of Chemistry, University of Latvia (2003); EQF level 7;</p> <p>2003. Erasmus Exchange program. Study and work on bachelors' thesis at Ghent University Faculty of Agricultural and Applied Biological Sciences; EQF level 7;</p> <p>2003.-2005. Master's degree of natural Science, Department of Chemistry, University of Latvia (MD A 3171 - 2005); EQF level 7;</p> <p>2006.-2009. Doctor's degree in chemistry, Department of Chemistry, University of Latvia, (D 0249 - 2009); EQF level 8;</p> <p>2009.-2010. Post-Doctoral Studies, Arcadia University, PA, USA; EQF level 8.</p>	
Current employment	
<p>2013.-present. Leading investigator, Laboratory of Chromatography; University of Latvia, Faculty of Chemistry, Riga (Latvia).</p>	
Previous employment	
<p>2012.01.- present Senior Researcher, Faculty of Chemistry, University of Latvia;</p> <p>2010.04.-2012.12. Research Scientist in Project „Capacity building for interdisciplinary biosafety research”, University of Latvia;</p> <p>2009.09. - 2010.02. Research Scientist at Galleon Pharmaceuticals, PA, USA;</p> <p>2007.01. - 2009.08. Researcher, Laboratory of Chromatography, University of Latvia;</p> <p>2005.01. – 2006.10. Senior chemist, Laboratory of Chromatography, JSC „ Grindeks”;</p> <p>2003.09. – 2005.01. Chemist-analyst, Laboratory of Chromatography ,PJSC „ Grindeks”;</p> <p>2002.07. – 2003.01. Technical chemist – analyst, Laboratory of Chromatography, PJSC „ Grindeks”.</p>	
Research experience	
<p>Projects</p> <p>2014.-2015. Leading researcher. "Development of new cosmetic composition for skin renewal and whitening, using environmentally friendly technology". (ERAF);</p> <p>2014.-2017. Leading Researcher. "Cancer-derived exosomes – a source of novel biomarkers and therapeutic targets for gastrointestinal cancers ". (Research cooperation project);</p> <p>2010.2012. Research Scientist. „Capacity building for interdisciplinary biosafety research". (ESF);</p> <p>2007.-2008. Research Scientist. "Evidence-based studies on the medicinal uses of the potato (<i>Solanum tuberosum</i>, L.) extracts". (Research project, University of Latvia).</p>	
<p>Publications</p> <ol style="list-style-type: none"> Ruta Muceniece, Jana Namniece, Ilva Nakurte, Kaspars Jekabsons, Una Riekstina, Baiba Jansone, "Pharmacological research on natural substances in Latvia: Focus on lunasin, betulin, polyprenol and phlorizin", 2016, Pharmacological Research, Accepted for publication, http://dx.doi.org/10.1016/j.phrs.2016.03.040. Klavina Laura, Springe Gunta, Vizma Nikolajeva, Illia Martsinkevich, Ilva Nakurte, Diana Dzabijeva, Iveta Steinberga, "Chemical Composition Analysis, Antimicrobial Activity and Cytotoxicity Screening of Moss Extracts (Moss Phytochemistry)", 2015, Molecules, 20, 17221-17243. doi:10.3390/molecules200917221. Kārlis Bērziņš, Ilze Grante, Ilva Nakurte, Andris Actiņš, "The influence of pH on the stability of 	

- antazoline: kinetic analysis", RSC Advances, **2015**, DOI: 10.1039/C5RA09043A.
4. Aija Gerina-Berzina, Uldis Vikmanis, Ainars Bajinskis, Gunta Purkalne, Silvija Umbrashko, **Ilva Nakurte**, Aleksandrs Kolesovs, "Dosage of cisplatin and related toxicity of cancer patients based on body fat and muscle mass", **2015**, European Scientific Journal, February, 11, 6, 11-22.
 5. Priede Elina, **Nakurte Ilva**, Zicmanis Andris, „Structure Effect of Imidazolium-Based Dicationic Ionic Liquids on Claisen Rearrangement”, *Synthetic Communications*, **2014**, 44:12, 1803-1809.
 6. D. Zacs, J. Rjabova, I. Pugajeva, **I. Nakurte**, A. Viksna, V. Bartkevics, “Ultra high performance liquid chromatography–time-of-flight high resolution mass spectrometry in the analysis of hexabromocyclododecane diastereomers: Method development and comparative evaluation versus ultra high performance liquid chromatography coupled to Orbitrap high resolution mass spectrometry and triple quadrupole tandem mass spectrometry”, *J. Chromatogr. A*, 1366, **2014**, 73–83.
 7. Inese Cakstina, Una Riekstina, Martins Boroduskis, **Ilva Nakurte**, Janis Ancans, Maija H Zile and Indrikis Muiznieks, "Primary culture of avian embryonic heart forming region cells to study the regulation of vertebrate early heart morphogenesis by vitamin A", *BMC Developmental Biology*, **2014**, 14:10.
 8. Linda Legzdina, **Ilva Nakurte**, Inga Kirhnere, Jana Namniece, Liga Krigere, Kristine Saleniece, Indra Beinarovica, Ruta Muceniece, "Up to 92 % increase of cancer-preventing lunasin in organic spring barley", *Agronomy for Sustainable Development*, **2014**, DOI 10.1007/s13593-013-0203-4.
 9. **Ilva Nakurte**, Inga Kirhnere, Jana Namniece, Kristine Saleniece, Liga Krigere, Peteris Mekss, Zaiga Vicupe, Mara Bleidere, Linda Legzdina, Ruta Muceniece, “Detection of the lunasin peptide in oats (*Avena sativa L*)”, *Journal of Cereal Science*, Volume 57, Issue 3, **2013**, 319-324.
 10. Keisa A, **Nakurte I**, Kunga L, Kale L, Rostoks, “Increased auxin content and altered auxin response in barley necrotic mutant *necl*”, *Proceedings of the 11th International Barley Genetics Symposium*, Springer, eds. Zhang G, Li C, Liu X, **2012**, 140-148.
 11. **Ilva Nakurte**, Kristaps Klavins, Inga Kirhnere, Jana Namniece, Liene Adlere, Jaroslavs Matvejevs, Arta Kronberga, Aina Kokare, Vija Strazdina, Linda Legzdina, Ruta Muceniece „Discovery of lunasin peptide in triticale (*X Triticosecale Wittmack*)”, *Journal of Cereal Science*, Volume 56, Issue 2, September **2012**, 510–514.
 12. **Ilva Nakurte**, Anete Keisa, Nils Rostoks, Development and Validation of a Reversed Phase Liquid Chromatography Method for the Simultaneous Determination of Indole-3-Acetic Acid, Indole-3-Pyruvic Acid and Abscisic Acid in Barley (*Hordeum vulgare L.*), *Journal of Analytical Methods in Chemistry*, Volume **2012**, Article ID 103575, doi:10.1155/2012/103575.
 13. Keisa A, Kanberga-Silina K, **Nakurte I**, Kunga L, Rostoks N, Differential disease resistance response in the barley necrotic mutant *necl*. *BMC Plant Biol*, **2011**, 11:66.
 14. **I.Nakurte**, P.Mekss, K.Klavins, A.Zicmanis, G.Vavilina, S.Dubrovina, “Collision-induced dissociation of imidazolium-based zwitterionic liquids”, *European Journal of Mass Spectrometry*, **2009**, vol 15, 471-478.
 15. **I.Nakurte**, P.Mekšs, A.Zicmanis, G.Vavilina, Z.Zhavoronkova, „Sorption of zwitterionic liquids 3-(3-alkyl-1-imidazolium)-propane sulfonates in reverse-phase high performance liquid chromatography”, *Latvian Journal of Chemistry*, **2008**, vol 3, p.233-243.
 16. **I.Nakurte**, K.Vanags, P.Mekšs, G.Vavilina, „Separation of zwitterionic liquids by reverse-phase liquid chromatography”, *Latvian Journal of Chemistry*, **2007**, vol 2, p.167-171.
 17. **I.Nakurte**, Z.Zhavoronkova, P.Mekšs, A.Zicmanis, G.Vavilina, „Sorption of 3-(3-alkyl-1-imidazolium)-propane sulfonates in reverse-phase high performance liquid chromatography”, *Latvian Journal of Chemistry*, **2007**, vol 3, p.285-286.
 18. I.Jakobsone, **I.Nakurte**, „High-performance liquid chromatographic analysis of phenolic compounds in different food products”, *Latvian Journal of Chemistry*, **2007**, vol 3, p.287-288.

Conferences:

1. Comparative transcriptome and metabolite analysis of orthologous barley *necl* and *Arabidopsis dnd2* mutants / N. Rostoks, A. Druka, L. Kāle, I. Nakurte // 6th Baltic Genetics Congress, September 30-October 3, 2015, Institute of Molecular and Cell Biology Tartu University, Estonia: Book of Abstracts Tartu : University of Tartu, 2015. 1 p.
2. Lunasin molecule: a source for the design of novel antipsychotics / Vija Klusa, Zane Dzirkale, Ilva Nakurte, Kaspars Jekabsons, Jana Namniece, Juris Rumaks, Ago Rinke, Anni Allikalt, Ruta Muceniece // Drug Discovery Conference, August 27-29, 2015, Riga, Latvia: Abstract Book Riga:

<p>Latvian Institute of Organic Synthesis, 2015. P.69: OP49</p> <ol style="list-style-type: none"> 3. Separation of polyprenols isolated from <i>Picea abies</i> L. spruce needles by ultra-performance-liquid-chromatography-time of flight mass spectrometry / Ilona Vanaga, Ilva Nakurte, Karolina Skorupinska-Tudek, Ewa Swiezewska, Ausma Korica, Ugis Kletnieks, Ruta Muceniece // Drug Discovery Conference, August, 27-29, 2015, Riga, Latvia: Abstract Book Rīga: Latvian Institute of Organic Synthesis, 2015. P.154: PP72. 4. Hypoxic colorectal cancer-derived exosome influence on mesenchymal stem cell functionality / Kaspars Jekabsons, Līga Saulīte, Ilva Nakurte, Arturs Abols, Aija Line, Ruta Muceniece, Una Riekstiņa // Drug Discovery Conference, August, 27-29, 2015, Riga, Latvia: Abstract Book Rīga: Latvian Institute of Organic Synthesis, 2015. P.108: PP26. 5. Lunasin molekule: a source for the design of novel antipsychotics / Vija Klusa, Zane Dzirkale, Ilva Nakurte, Kaspars Jekabsons, Jana Namniece, Juris Rumaks, Ago Rinke, Anni Allikalt, Ruta Muceniece // Drug Discovery Conference, August 27-29, 2015, Riga, Latvia: Abstract book Rīga: Latvian Institute of Organic Synthesis, 2015. P.69: OP49. 6. Photostability of Nitrofuran derivatives in solutions / Diāna Džabijeva, Ilva Nakurte, Kārlis Bērziņš (Oral session 4: Chemistry and chemical physics) // Open Readings 2015: 58th scientific conference for students of physics and natural sciences, 24-27 March, 2015, Vilnius: programme and abstracts Vilnius: Vilnius University, 2015. P.43 7. Protein analysis of exomes / Ilva Nakurte, Kaspars Jekabsons, Una Riekstina, Arturs Abols, Līga Saulīte, Matīss Otersbergs, Aija Line, Ruta Muceniece. // Open Readings 2015: 58th scientific conference for students of physics and natural sciences, 24-27 March, 2015, Vilnius: programme and abstracts Vilnius: Vilnius University, 2015. P.102 8. Enantiomeric separation of 1-phenyl-1,2,3,4-tetrahydroisoquinoline by high performance liquid chromatography / Diāna Džabijeva, Igors Kļimenkovs, Ilva Nakurte, Jānis Ruško // 8th International Scientific Conference the Vital Nature Sign, May 19-21, 2014: Abstract book Lithuania, Kaunas: Vytautas Magnus University, 2014 P.15. 9. Biologically active seed peptide lunasin and its influence on the CNS / Z. Dzirkale, K. Jekabsons, J. Namniece, I. Nakurte, S. Svirskis, J. Rumaks, R. Muceniece, V. Klusa // World Congress of Pharmacy&Pharmaceutical Science: 73rd International Congress of FIP, Aug 31 – Sept 5, 2013. Dublin, 2013. Poster No.NPR-P-16. 10. Simple UPLC-MS method for adenylate pool analysis in baker's yeast cells / Ilva Nakurte, Juris Kibilds, Agnese Kokina, Marta Baumanė, Ilva Nakurte, Janis Liepins. // 1st International conference "Modern aspects and applications of chromatography in education, research and industry": October 16-18, 2013, Daugavpils. Daugavpils, 2013. 45. p.
Awards and scholarships
<p>2005. LU rector Ivars Lacis NOTE OF ACKNOWLEDGMENT for research work in chemistry, food chemistry sub-sector, Riga, Latvia.</p> <p>2004. University of Latvia Kristaps Morbergs scholarship recipient for research "Evaluation of determination method for 10-hydroksi decanoic acid using HPLC", Riga, Latvia.</p> <p>2002. University of Latvia Kristaps Morbergs scholarship recipient for research „3,5-dihidroksi pyridines - new potential medical drugs”, Riga, Latvia.</p>
Thesis work led
Pedagogical work
<ul style="list-style-type: none"> • "Pharmaceutical and Bioanalytical Analysis" ;Ķīmi6102; 4CP; University of Latvia; • "Methods of Chromatography"; Ķīmi2000; 4CP; University of Latvia; • "Civil Protection I "; Ķīmi1059; 1CP; University of Latvia; • "Civil Protection II "; SDSK1119; 2CP; University of Latvia.
Participation in scientific bodies

Institutional positions
2014.-2015. External expert at State Agency of Medicines of Latvia; 2010.-present. Expert at University of Latvia competence centre in food and nutrition chemistry.