Annex 9

Curriculum vitae (CV)

Annex should be prepared in English only

Personal information

First name, last name	Laura Kļaviņa
Birth data	08.05.1989

Education

2013 – present	University of Latvia, Faculty of Geography and Earth science, Phd study programme in Environmental science. Topic of the PhD thesis "Study of bryophyte secondary metabolite profile". Estimated discussion of the PhD thesis work – 30.05.2017
2011 – 2013.	University of Latvia, Faculty of Geography and Earth science, master study programme in Environmental science
2008 – 2011.	University of Latvia, Faculty of Biology, bachelor study programme in Biology
2013	Master degree of science in Environmental science
2011	Bachelor degree of science in Biology

Current employment

2015 – present	University of Latvia Faculty of Geography and Earth Sciences / Department of Environmental Science/ Head of Laboratory of Natural Resource Research
2014 – present	University of Latvia Faculty of Geography and Earth Sciences / Department of Environmental Science, researcher

Previous employment

2010 – 2014	University of Latvia Faculty of Geography and Earth Sciences / Department of Environmental Science, laborant
2009 – 2011	University of Latvia Faculty of Biology / Department biochemistry and biotechnology, laborant

Research experience

6 year experience in plant material extraction using different methods and both polar and non-polar extrahents. As well as chemical analysis of plant extracts using spectrometrical methods and GC/MS analysis. Experience in doing antimicrobial testing of different plant extracts, as well as other biological activity determining testing methods. 2 year experience on analysis of berry extracts concentrating on extraction process and their chemical analysis using GC/MS.

Projects:

2016 – 2016	Natural saubstance sample content analysis and substance identification
2016 – 2016	Plant material sample extraction and chemical composition analysis
2015 – 2015	Heavy metal, nitrate and POP content monitoring in mosses
2014 – 2015	Interdisciplanary new scientist group for studies of Latvian bog and peat resources
2011 – 2012	The Innovation in peat research and the creation of new products, containing peat

Publications:

G. Tabors, O. Nikodemus, L. Dobkevica, **L. Klavina**, A. Ajanovica, K. Viligurs, I. Kruze; Assessment of atmospheric pollution with heavy metals and nitrogen using *Pleurozium schreberi* mosses as bioindicator in Latvia: spatial and temporal aspects. Environmental and Experimental Biology, 2017, 15, 143-150

L. Klavins, J. Kviesis, I. Steinberga, **L. Klavina**, M. Klavins; Gas chromatography–mass spectrometry study of lipids in northern berries. Agronomy Research, 2016, 14 (2), 1328-1347

L. Klavins, **L. Klavina**, A. Huna, M. Klavins. 2015. Polyphenols, carbohydrates and lipids in berries of *Vaccinium* species. Environmental and Experimental Biology, 13, 147-158

L. Klavina, G. Spriņģe; Optimization of extraction of biologically active secondary metabolites from bryophytes commonly found in Latvia, 2015, LZA vēsties,

L. Klavina, G. Springe, V. Nikolajeva, I. Martsinkevich, I. Nakurte, D. Dzabijeva, I. Steinberga; Chemical Composition Analysis, Antimicrobial Activity and Cytotoxicity Screening of Moss Extracts, Molecules, 2015, 20 (9),17221-17243

L. Klavina, J. Kviesis; Solid phase extraction of bryophyte lipids, RTU zinātniskie raksti Materiālzinātne un lietišķā ķīmija, 2015, 32 (1), 58-67.

L. Klavina; A study on bryophyte composition-search for new applications. Agronomy research, 2015, 13 (4), 969-978,

V. Maksimova, **L. Klavina**, O. Bikovens, A. Zicmanis, O. Purmalis; Chemistry and Biodiversity, 2013, 10 (7): 1284-1294.

L. Klavina, O. Bikovens, I. Steinberga, V. Maksimova, L. Eglite; Environmental and Experimental Biology, 2012, 10: 27-34.

L. Klavina, P. Mekss, I. Silamikele; Analysis of hydrocarbons in bitumens from raised bog profiles. Scientific journal of Riga Technical University, 2012, 24: 100-105.

Conferences:

M.Klavins, **L.Klavina**, A,Kukela, L.Klavins. Berry pressresidues as a valuable source of polyphenolics: extraction optimisation and analysis. Abstract book of the 11th Baltic conference on Food Science and Technology "Food science and technology in a changing world", Riga, Latvia, 2017

M.Klavins, **L. Klavina**, S. Strauta, A. Huna. Chemical composition of Bog Bilberries, blueberries and black crowberry. The 6th Global Summit Medical and Aromatic plants, Riga, Latvia 2016

L.Klavina. Bryophyte chemical composition and biological activity. The 6th Global Summit Medical and Aromatic plants, Riga, Latvia 2016

L. Klavina, L. Arbidans, J. Kviesis. Moss usage for environmental monitoring of PAH. 74. Annual LU conference, Riga, Latvia, 2016

J. Kviesis, **L. Klavina**, L. Arbidans. Diterpenoids in mosses found in Latvia. 74. Annual LU conference, Riga, Latvia, 2016

L. Klavina Secondary metabolites of mosses: a valuable source of biologically active compounds, Abstracts for International symposium on phytochemicals in medicine and food, Shanghai, China, 2015

L. Klavina A study on bryophyte chemical composition-search for new applications, 6th International Conference on Biosystems Engineering 2015, Tartu, Estonia, 2015

L. Klavina, G. Springe. Extraction and analysis of moss secondary metabolites, Vital Nature Sign 9th International Conference, Kauna, Lithuania, 2015

L. Klavina, L. Arbidans, A. Mežaka. Seasonal changes of bryophyte chemical composition. 73. Annual LU conference, Riga, Latvia, 2015

J. Kviesis, **L. Klavina**, L. Arbidans. Fatty acid content in bryophytes. 73. Annual LU conference, Riga, Latvia, 2015

L.Klavina, G. Springe, V. Nikolajeva. Bryophytes- a new source of biologically active substances. Trends in natural products research, Phytochemical society of Europe, Olomuc, Czech republic, 2014

L. Klavina, P. Naidjonoka, L. Arbidans. Fractionation of bryophyte secondary metabolites with following by GC/MS and UPLC. 9th International symposium on chromatography of natural products, Lublin, Poland, 2014

L. Klavina, J. Kviesis, L. Arbidans. Bryophyte extract analysis using GC/MS, 9th International symposium on chromatography of natural products, Lublin, Poland, 26-29.05.2014

L. Klavina, L. Arbidans. Bryophyte chemical composition and their biological activity. 72. Annual LU conference, Riga, Latvia, 2014

L. Klavina, L. Pakalna. Pollution stress biomarkers in bryophytes and their composition. ICCE 2013, Barcelona, Spain, 2013

L. Klavina, V. Maksimova, V. Nikolajeva. Bryophyte composition and their secondary metabolite biological activity. 71. Annual LU conference, Riga, Latvia, 2013

V. Maksimova, **L.Kļaviņa**. Analysis and identification of hydrophobic compounds in some bryophytes. EcoBalt2012, Riga, Latvia, 2012

L.Klavina, O. Bikovens, V. Nikolajeva, L. Eglīte, V. Maksimova. Chemical composition and properties of Sphagnum mosses contributing towards their biological activity. 5th International meeting on the biology of Sphagnum. Abstract book, pp 42. Estonia, Tartu, 2012

L.Klavina, V. Nikolajeva, Polyphenols in bryophytes. 16th International conference on polyphenols. Abstract book, vol.1, pp 191-192. Italy, Florence, 2012

L.Klavina, I. Silamikele, O. Bikovens, V. Nikolajeva. Chemical properties contributing towards the antimicrobial activity of the main peat-forming mosses. 14 th International Peat Congress, Sweden, 2012

O. Bikovens, **L. Klavina**. Usage of analytical pyrolysis in determination of chemical content of bryophytes found in Latvia. 70. annual LU conference, Riga, Latvia, 2012

L. Klavina, I. Martsinkevich. Usage of physico-chemical methods in characterization of chemical content of bryophytes. 70. annual LU conference, Riga, Latvia, 2012

L. Klavina, I. Jakobsone. Biologically active ingredients found in peat and bryophytes. 69. annual LU conference, Riga, Latvia, 2011

Pedagogical work

Supervision of several Bachelor thesis

Participation in scientific bodies

Member of Society of Medicinal Plant and Natural Product Research (GA)
Member of Society of The Groupe Polyphenols (GP)
Member of Society of Phytochemical Society of Europe (PSE)

Institutional positions

2014 – present University of Latvia Faculty of Geography and Earth Sciences / Department of Environmental Science, researcher