

Curriculum vitae (CV)

Personal information													
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">First name, last name</td> <td style="padding: 2px; border-bottom: 1px solid black;">ZANE DZIRKALE</td> </tr> <tr> <td style="padding: 2px;">Birth data</td> <td style="padding: 2px; border-bottom: 1px solid black;">25.04.1983.</td> </tr> </table>	First name, last name	ZANE DZIRKALE	Birth data	25.04.1983.								
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Education													
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">27.06.2014.</td> <td style="padding: 2px;">University of Latvia, Riga, Latvia</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">PhD in Pharmacy (Dr.pharm)</td> </tr> <tr> <td style="padding: 2px;">June 2006</td> <td style="padding: 2px;">Faculty of Medicine, University of Latvia, Latvia,</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">MSc in Pharmacy</td> </tr> <tr> <td style="padding: 2px;">June 2004</td> <td style="padding: 2px;">Faculty of Medicine, University of Latvia, Latvia,</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">BSc in Pharmacy</td> </tr> </table>	27.06.2014.	University of Latvia, Riga, Latvia		PhD in Pharmacy (Dr.pharm)	June 2006	Faculty of Medicine, University of Latvia, Latvia,		MSc in Pharmacy	June 2004	Faculty of Medicine, University of Latvia, Latvia,		BSc in Pharmacy
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Other relevant experience	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">October 2012</td> <td style="padding: 2px;">Certificate C-category competence course in Laboratory Animal Science, University of Latvia, Latvia</td> </tr> </table>	October 2012	Certificate C-category competence course in Laboratory Animal Science, University of Latvia, Latvia										
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Current employment													
Assistant professor,	Department of Pharmacology, Faculty of Medicine, University of Latvia												
Researcher,	Department of Pharmacology, Faculty of Medicine, University of Latvia												
Previous employment													
Sept 2014–April 2015	Researcher, ERDF project „Development of medical device for stimulation of chronic wound healing, Faculty of Medicine, University of Latvia												
2010 - 2012	Researcher, European Social Fund funding “The role of the neuroimmune regulation in the treatment of neurodegenerative disorders by the novel type of the privileged structures”, Faculty of Medicine, University of Latvia												
2007–2009	Research Assistant, Faculty of Medicine, University of Latvia												
Research experience													
Research projects													
2014-2015	Researcher, ERDF project „Development of medical device for stimulation of chronic wound healing”												

2010-2012	Researcher, ESF funding “The role of the neuroimmune regulation in the treatment of neurodegenerative disorders by the novel type of the privileged structures”
2009-2010	Research Assistant, Latvian Council of Science grant Nr 09.1025 „Regenerative Effects of Mitochondria-targeted Small Molecules in Neurodegeneration Models”

Publications (10):

1. Baiba Jansone, **Zane Dzirkale**, Kaspars Jekabsons, Vladimirs Pilipenko, Ulrika Beitnere, Ingrida Magure, Raimonds Skumbiņš, Ugis Kletnieks, Ilona Vanaga, Ruta Muceniece, Vija Kluša. Spruce needle polyphenols protect against atorvastatin-induced muscle weakness and do not influence central nervous system functions in rats. *Proceedings of the Latvian Academy of Sciences, Section B: Natural, Exact, and Applied Sciences* Vol. 70, (2016), No1 (700), p.13-20. DOI: 10.1515/prolas-2016-0003.
2. U.Beitnere, **Z.Dzirkale**, S.Isajevs, J.Rumaks, S.Svirskis, V.Klusa. Carnitine congener mildronate protects against stress- and haloperidol-induced impairment in memory and brain protein expression in rats. *European Journal of Pharmacology*. Vol.745 (2014), p.76-83, DOI: 10.1016/j.ejphar.2014.10.014.
3. Klusa V, Beitnere U, Pupure J, Isajevs S, Rumaks J, Svirskis S, **Dzirkale Z**, Kalvinsh I. Mildronate and its neuroregulatory mechanisms: targeting the mitochondria, neuroinflammation, and protein expression. *Medicina (Kaunas)*. 2013;49(7):301-9.
4. **Dzirkale Z**, Rumaks J, Svirskis S, Mazina O, Allikalt A, Rinken A, Jekabsons K, Muceniece R, Klusa V. Lunasin-induced behavioural effects in mice: Focus on the dopaminergic system. *Behav Brain Res*. 2013;256:5-9.
5. **Dzirkale Z**, Pupure J, Rumaks J, Svirskis S, Vanina M, Mezhapuke R, Sile V, Fernandes MA, Duburs G, Klusa V. Comparative study of taurine and tauropyrone: GABA receptor binding, mitochondrial processes and behaviour. *J Pharm Pharmacol*. 2011 Feb;63(2):230-7.
6. Klusa VZ, Isajevs S, Svirina D, Pupure J, Beitnere U, Rumaks J, Svirskis S, Jansone B, **Dzirkale Z**, Muceniece R, Kalvinsh I, Vinters HV. Neuroprotective properties of mildronate, a small molecule, in a rat model of Parkinson's disease. *Int J Mol Sci*. 2010 Nov 9;11(11):4465-87.
7. Jansone B, Rumaks J, **Dzirkale Z**, Pupure J, Svirskis S, Muceniece R, Klusa V Gamma1- and gamma2-melanocyte stimulating hormones induce central anxiogenic effects and potentiate ethanol withdrawal responses in the elevated plus-maze test in mice. *Pharmacol Biochem Behav*. 2009 Apr;92(2):267-71.
8. Pupure J, Isajevs S, Gordjushina V, Taivans I, Rumaks J, Svirskis S, Kratovska A, **Dzirkale Z**, Pilipenko J, Duburs G, Klusa V Distinct influence of atypical 1,4-dihydropyridine compounds in azidothymidine-induced neuro- and cardiotoxicity in mice ex vivo. *Basic Clin Pharmacol Toxicol*. 2008 Nov;103(5):401-6.
9. Muceniece R, Saleniece K, Krigere L, Rumaks J, **Dzirkale Z**, Mezhapuke R, Zharkova O, Klusa V. Betulin binds to gamma-aminobutyric acid receptors and exerts anticonvulsant action in mice. *Pharmacology Biochemistry and Behavior*. 2008 Oct;90(4):712-6.
10. Muceniece R, Saleniece K, Krigere L, Rumaks J, **Dzirkale Z**, Mezhapuke R, Kviesis J, Mekss P, Klusa V, Schiöth HB, Dambrova M. Potato (*Solanum tuberosum*) Juice Exerts an Anticonvulsant Effect in Mice through Binding to GABA Receptors. *Planta Medica* 2008 Apr;74(5):491-6.

Scientific conferences (last 10):

1. Jansone B, Jenina J, Jukevica K, Boroduskis M, **Dzirkale Z**, Poppela E, Patetko L, Eglite J, Hagina E, Ramata-Stunda A. Functionalized hyaluronic acid based biomaterial and assessment of its safety and wound healing activity in acute and diabetic skin wound models. 7th European Congress of Pharmacology (EPHAR2016), June 26-30, Istanbul, Turkey: Congress Book Istanbul, 2016. P.161; C086.
2. Piļipenko V, Pupure J, Rumaks J, Beitnere U, **Dzirkale Z**, Jansone B, Skumbiņš R, Kluša VZ. Muscimol effectively reverses impaired spatial memory in Alzheimer's disease-type streptozocin icv rat model. European Neuropsychopharmacology: Abstracts of the ECNP Workshop for Junior Scientists in Europe Vol.26, Supplement 1 (2016), p.S37-S38. DOI:10.1016/S0924-977X(16)70042-3
3. Muceniece R, Pilipenko V, Skumbins R, Jekabsons K, Nakurte I, **Dzirkale Z**, Beitnere U, Pupure J, Jansone B, Vanaga I, Klusa V. Influence of polyprenols on stressed rats' behavior. International XXXV Workshop on 'Stress, behavior and the heart' (ERICE2015), Abstract book. 2015, October 1-6, Erice, Sicily, Italy.
4. Raimonds Skumbiņš, Baiba Jansone, **Zane Dzirkale**, Kaspars Jēkabsons, Vladimirs Piļipenko, Ingrīda Māgure, Jana Namniece, Ulrika Beitnere, Elga Poppela, Uģis Klētnieks, Ilona Vanaga, Ruta Muceniece, Vija Kluša. Polyprenols and their influence on muscle strength and CNS functions. Drug Discovery Conference, August, 27-29, 2015, Riga, Latvia : Abstract Book Riga : Latvian Institute of Organic Synthesis, 2015. P.73 : OP53.
5. Vija Klusa, **Zane Dzirkale**, Ilva Nakurte, Kaspars Jekabsons, Jana Namniece, Juris Rumaks, Ago Rinken, Anni Allikalt, Ruta Muceniece. Lunasin molecule: a source for the design of novel antipsychotics. Drug Discovery Conference, August 27-29, 2015, Riga, Latvia : Abstract Book Riga : Latvian Institute of Organic Synthesis, 2015. P.69: OP49.
6. Baiba Jansone, **Zane Dzirkale**, Kaspars Jekabsons, Vladimirs Pilipenko, Ulrika Beitnere, Raimonds Skumbins, Zita Freiberga, Elga Poppela, Ugis Kletnieks, Ilona Vanaga, Karlis Kletnieks, Ruta Muceniece, Vija Klusa. Polyprenols isolated from Picea abies L. spruce needles influence atorvastatin-mediated muscle strength weakness in Wistar female rats. Chinese Journal of Pharmacology and Toxicology : Special Issue of the IUPHAR Conference on the Pharmacology of Natural and Traditional Medicine 2015, July 22-24, 2015, Singapore Singapore, 2015 Vol. 29 (2015), Suppl 1, p. 113 , ISSN 1000-3002.
7. Vladimirs Pilipenko, Jolanta Pupure, Juris Rumaks, Ulrika Beitnere, **Zane Dzirkale**, Raimonds Skumbins, Vija Klusa. GABAA agonist muscimol ameliorates learning/memory deficits in streptozocin-induced Alzheimer's disease non-transgenic rat model. Molecular Mechanisms of Regulation in the Nervous System : European Society for Neurochemistry, Tartu, Estonia, June 14-17, 2015. Tartu, 2015 Vol.4, Suppl. 1 : P 36.
8. Vija Klusa, Ulrika Beitnere, Vladimirs Pilipenko, Jolanta Pupure, Vladimirs Pilipenko, Jolanta Pupure, Juris Rumaks, Simons Svirskis, Baiba Jansone, Ruta Muceniece, **Zane Dzirkale**, Sergejs Isajevs, Thomas van Groen, Inga Kadish. Neurodegenerative diseases: problems, drugs, pharmacotherapeutic strategies. International conference in neuroscience and pharmacology "Neurodegenerative diseases and new trends in pharmacotherapeutic strategies", April, 23-24, 2015: abstract book Riga, 2015. P.16.
9. U. Beitnere, **Z. Dzirkale**, S. Isajevs, B. Jansone, V. Klusa. Adamantyl-group containing 1,4-dihydropyridine derivative protects against stress-induced changes in brain protein expression in rats. Neuro-degenerative Diseases. Vol.15, Suppl.1 : Mechanisms, clinical strategies, and promising treatments of neurodegenerative diseases. 12th International conference AD/PDTM Nice, France, March 18-22, 2015 : abstracts (2015), p.1833, DOI:10.1159/000381736.
10. **Z. Dzirkale**, K. Jekabsons, J. Namniece, I. Nakurte, S. Svirskis, J. Rumaks, R. Muceniece, V. Klusa. Biologically active seed peptide lunasin and its influence on the CNS. World Congress of Pharmacy & Pharmaceutical Sciences: 73rd International Congress of FIP, Aug 31 – Sept 5, 2013. Dublin, 2013. Poster No.NPR-P-16.

Awards and scholarships

2013-2014 Scholar of European Structural Fund stipend for PhD candidates

The Rector's Appreciation for work in medicine's field, the pharmaceutical sub-sector in 2006 and 2004 year, University of Latvia

Scholarship of excellence of patron of University of Latvia K.Morbergs for 2003/2004 and 2004/2005 study year
Pedagogical work
Lecture courses in Pharmacy study program, Faculty of Medicine, University of Latvia: <ol style="list-style-type: none">1) Pharmacology and Pharmacotherapy part I 6 ECTS2) Pharmacology and Pharmacotherapy part II 3 ECTS3) Food supplements 3 ECTS Supervisor of 10 bachelor thesis in Pharmacy study programm, University of Latvia Supervisor of 3 master thesis in Pharmacy study programm, University of Latvia
Participation in scientific bodies
<ol style="list-style-type: none">1. Member of Latvian Society of Pharmacology2. Member of Pharmacists' Society of Latvia
Institutional positions
<ol style="list-style-type: none">1. Member of Certification Commission of Pharmacists' professional qualification, Pharmacists' Society of Latvia2. Member of bachelor and master thesis defence board in Pharmacy, Faculty of Medicine, University of Latvia