CURRICULUM VITAE

First and Family Name	**Raimondas ŠIUKŠTA**		
Date of Birth	*1985-08-24*		
Scientific Degree, Academic Title	*PhD*		
Higher Education			
Name of University	Year of Graduation	Academic Degree or Qualification obtained	
Vilnius University	*2008*	*Biologist (Bachelor)*	
Vilnius University	*2010*	*Biologist (Master)*	
Postgraduate Studies			
Name of University	Title of Theses	Date	Scientific Degree
Vilnius University	*Inherited Phenotypic Instability of Barley Homeotic Single and Double Mutants and Its Possible Causes*	*2015*	*PhD*
Work Experience			
Year (from/to)	Institution		Position
2018 until now	*Department of Botany and Genetics, Life Sciences Center, Vilnius University*		*Associate Professor*
2013–2018	*Department of Botany and Genetics, Vilnius University*		*Assistant Professor*
2011-2021	*Botanical garden of Vilnius University*		*Curator of the botanical collections*
2008–2011	*Botanical garden of Vilnius University*		*Specialist*
Teaching experience		14 years	
Professional (practical work) experience		20 years	
Scientific and Teaching Activity			
Fields of Research		Courses Offered	
Plant developmental genetics, plant molecular biology and biochemistry, genotoxicology, molecular and biochemical markers		*Fundamentals of Genetics for Molecular Biology undergraduates (10 ECTS); Genetics for Biochemistry undergraduates (5 ECTS); Plant Molecular Biology for Genetics undergraduates (5 ECTS)*	

List of most important Publications

Scientific Publications

1. **Šiukšta R**, Pukenytė V, Kleizaitė V, Bondzinskaitė S, Čėsnienė T (2022) The butterfly effect: mild soil pollution with heavy metals elicits major biological consequences in cobalt-sensitized broad bean model plants. *Antioxidants*. 2022; 11(4):793.
2. **Šiukšta R**, Vaitkūnienė V, Mačkinaitė R, Rančelis V (2021) Application of barley *tweaky spike* mutants for the study of effects of plant immunity-related substances. *Agronomy* 11(11):2180.
3. Vaitkūnienė V, **Šiukšta R**, Leistrumaitė A, Rančelis V (2019) Prospective use of barley spike/flower homeotic single and double mutants for ornamental purposes. *Euphytica* 215: 127.
4. Stapulionytė A, Kleizaitė V, **Šiukšta R**, Žvingila D, Taraškevičius R, Čėsnienė T (2019) Cyto/genotoxicological evaluation of hot spots of soil pollution using *Allium* bioassays in relation to geochemistry. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* 842: 102–110.
5. **Šiukšta R**, Bondzinskaitė S, Kleizaitė V, Žvingila D, Taraškevičius R, Mockeliūnas L, Stapulionytė A, Mak K, Čėsnienė T (2019) Response of *Tradescantia* plants to oxidative stress induced by heavy metal pollution of soils from industrial areas. *Environmental Science and Pollution Research* 26(1): 44–61.
6. **Šiukšta R**, Vaitkūnienė V, Rančelis V (2018) Is auxin involved in the induction of genetic instability in barley homeotic double mutants? *Planta* 247(2): 483–498
7. Čėsnienė T, Kleizaitė V, Bondzinskaitė S, Taraškevičius R, Žvingila D, **Šiukšta R**, Rančelis V (2017) Metal bioaccumulation and mutagenesis in a *Tradescantia* clone following long-term exposure to soils from urban industrial areas and closed landfills. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* 823: 65–72.
8. **Šiukšta R**, Vaitkūnienė V, Kaselytė G, Okockytė V, Žukauskaitė J, Žvingila D, Rančelis V (2015) Inherited phenotype instability of inflorescence and floral organ development in homeotic barley double mutants and its specific modification by auxin inhibitors and 2,4-D. *Annals of Botany* 115(4): 651–663.
9. **Siuksta R**, Vaitkuniene V, Rancelis V, Zvingla D, Cesniene T, Kleizaite V, Zukauskaite J, Balciuniene L (2012) Barley homeotic mutants and their hybrids for ornamental purposes. *Acta Horticulturae* 953: 337–343.

10. Žvingila, Donatas; Vaitkūnienė, Virginija; Patamsytė, Jolanta; Leistrumaitė, Algė; Staniūtė, Monika; Balčiūnienė, Laimutė; Čėsnienė, Tatjana; Kleizaitė, Violeta; **Šiukšta, Raimondas**; Rančelis, Vytautas Petras (2012) DNA polymorphism and agronomic traits of revertants from barley (*Hordeum vulgare* L.) mutant *tw*. *Žemdirbystė = Agriculture* 99(2): 139-148.

Participation in the Grants

2024-2027 Genetic mapping and characterization of barley developmental flower/inflorescence *tweaky spike* (*tw*) mutation. Research Council of Lithuania, PI at the partner institution Nature Research Centre.

2024-2025 Investigation of changes in transcriptome profiles in barley tw locus knock-out created using CRISPR-cas9 system. The intramural grant by Vilnius University Science promotion fund, main researcher.

2015-2018 Use of molecular and cytogenetic markers to assess permanent genotoxicity of ecologically dangerous soils. Research Council of Lithuania, investigator.

2009 The study of the interaction between inducer of immunity and pathogen toxin using sensitive plant lines. Lithuanian State Science and Studies Foundation, investigator.

2009 The impact of epigenetic modulators on the variation of barley flower structure. Lithuanian State Science and Studies Foundation, investigator.