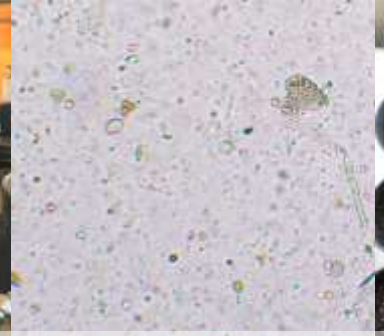

Fugat variants 20.6.2022


Fugat 23.6.2022


Salad 16.6.2022


Salad 14.7.2022

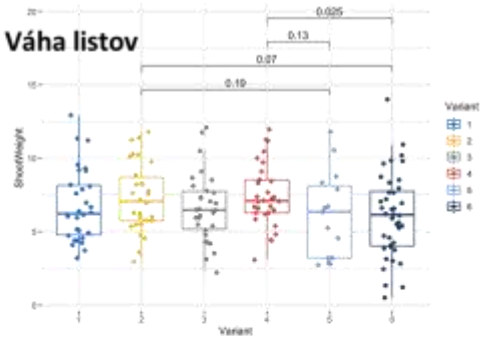

Extract 20.6.2022

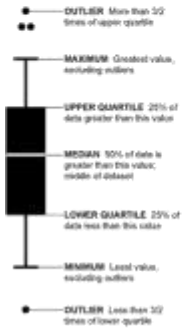

Tee 23.6.2022

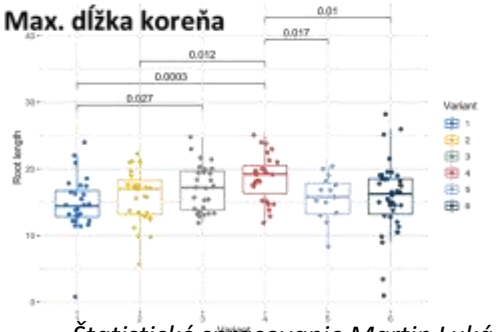

Salad 24.6.2022

Výsledky pestovateľského pokusu so šalátom
Variant zálievky

1 Fugát (50 ml + 100 ml vody)
2 Fugát + Kompostový extrakt (50 ml + 100 ml vody)
3 Fugát + Zeolit (50 ml + 100 ml vody)
4 Kompostový čaj
5 Kontrola dažďová voda
6 Kompostový extrakt

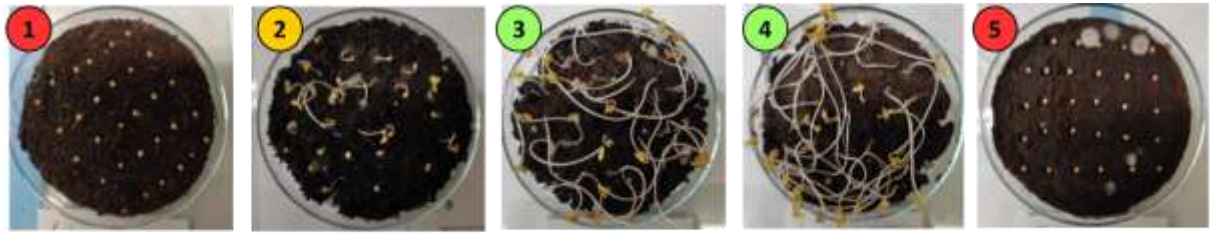






Štatisticky a experimentálne bezvýznamné rozdiely: **Počet listov** a **Váha podzemou**

Štatistické spracovanie Martin Lukáň



1-2 Priemyselný kompost, 3-4 Biologicky kvalitný kompost, 5 Výstup z elektr. "kompostéra"

Test klíčivosti: NPPC Vladimír Píš

Research

Top: Experiment with **biological recovery of fugate** (liquid fraction of digestate) with subsequent application to salad in cooperation with Rostislav Matl, DVP Agro Bratcice, Czech Republic

Bottom right: Testing of **compost quality** in cooperation with Slovak National Agriculture and Food Center (NPPC)

Other experiments:

- Soil, compost and **secondary plant metabolites** in oregano, cooperation NPPC
- **Compostability** of 100% bio based polymers, cooperation SPU, CityCare
- Impact of **limestone**, **ammonium nitrate** and **glyphosate** on soil food web in compost in cooperation with Lubomir Marhavy and Marian Hlavacka

Živá záhrada (2025)

Funkčná skupina pôdneho biómu	1	2	3	4	5	Minimálne požiadavky SFW biologicky kompletný kompost, Dr. Elaine Ingham
Bakteriálna biomasa µg/g	3.874	16.141	2.066	1.550	-	> 135 µg/g
Aktinobakteriálna biomasa µg/g	(0,74)	(1,08)	1,53	(0,15)	0	< 10 µg/g ak chceme mykorízu > 10 µg/g ak nechceme mykorízu (kapustoviny)
Hubová biomasa µg/g	0,00	(5,13)	(342,11)	546,76	0	> 135 µg/g
Pomer **HUBY : BAKTÉRIE**	0,0	0,0	0,2	0,4	0	> 0,3-0,8
Prospešné prvoky počet/g	0	0	1.452.687	233.147	0	> 10.000 /g
Prospešné nematódy počet/g	220	0	440	0	0	> 100 /g

(Hodnoty v zátvorke majú vysokú štandardnú odchýlku)
Hodnoty označené červenou nespĺňajú min. požiadavky SFW

Rozbor mikrobiómu: Živá záhrada, Lucia Baľáková

Valuable biomass instead of waste

- Quality compost has strategic importance for restoring soil health, land recultivantion and biomass production.
- Compost liquid amendments help farmers and green space managers to replace fertilizers, plant protection products and soil improvers.
- Compost operation Živá Záhrada welcomes and educates children, adults, lays and professionals.
- Own capacity to process 2000 tons of biomass per year.

Restoring soil microbial diversity and biomass

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Živá záhrada

Živa Garden s.r.o. is a registered social enterprise in Leopoldov with the long-term goal to restore the microbiome and soil biodiversity and integrate medically disadvantaged and vulnerable.

PEDAVITA OZ

PedaVita is a registered research and development organization, it investigates soil life in the context of plant, animal, human and environmental health.

Activities supporting soil health

Živá Záhrada, s.r.o. / Živa Garden
Social business

PedaVita OZ
Research and development

Education

Laboratory

Consultancy and services

Compost operation

Research and development

Ing. Juraj Balak, PhD. and PhDr. Lucia Balak

- Founders of the research NGO PedaVita OZ and registered social business Živá záhrada, s.r.o. (Živa Garden)
- Students of soil biology school Soil Food Web Inc., Dr. Elaine Ingham
- Independent agricultural consultants (AKIS, Slovakia)
- Scientific and research co-worker NPPC VÚP (Food Research Institute)
- Co-founders of the Composting Association of Slovakia – KOMPAS
- Expert members of the Czech Association for Regenerative Agriculture

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Towards healthy soils

Introduction to selected activities of Živá Garden s.r.o. and PedaVita OZ

a social business and a non-profit research NGO in Slovakia