

LEIDEN, NETHERLANDS - DECEMBER 2015

THE FUTURE OF ISS UTILIZATION: AN INDUSTRY PERSPECTIVE



**BLUE
ORIGIN**



#FUTUREISS



SyNRGE, LLC

Titusville, FL

Space Agriculture and
Controlled Environment
Agriculture Technology

Gary W. Stutte, PhD, Msc, BSc
President

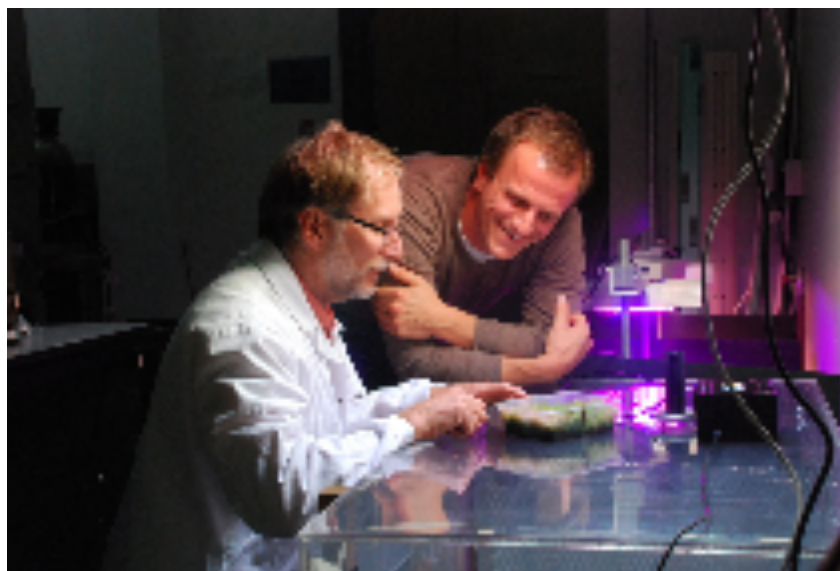
Nanoracks 2015 Europe Workshop
Leiden, The Netherlands 7-8 December, 2015

SyNRGE, LLC

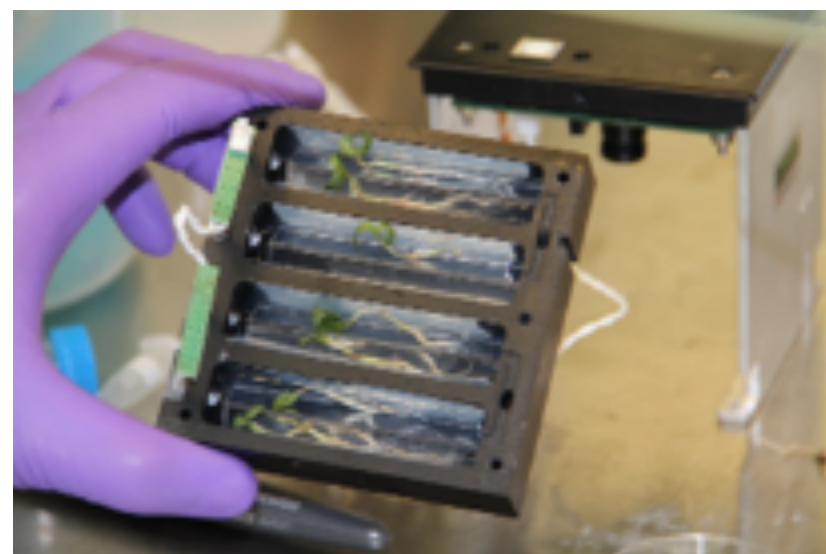
Product and Services



Identify and facilitate opportunities to utilize microgravity environment for individuals, organizations and institutions.



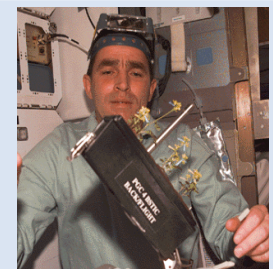


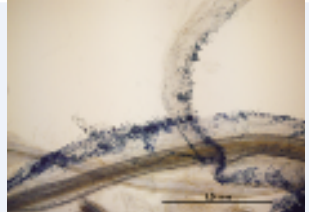

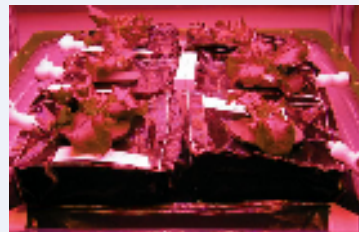


Apply space-based technology to terrestrial develop controlled environment agriculture, vertical farming and plant factories.



Utilize the microgravity environment to accelerate development of biological solutions to terrestrial problems.



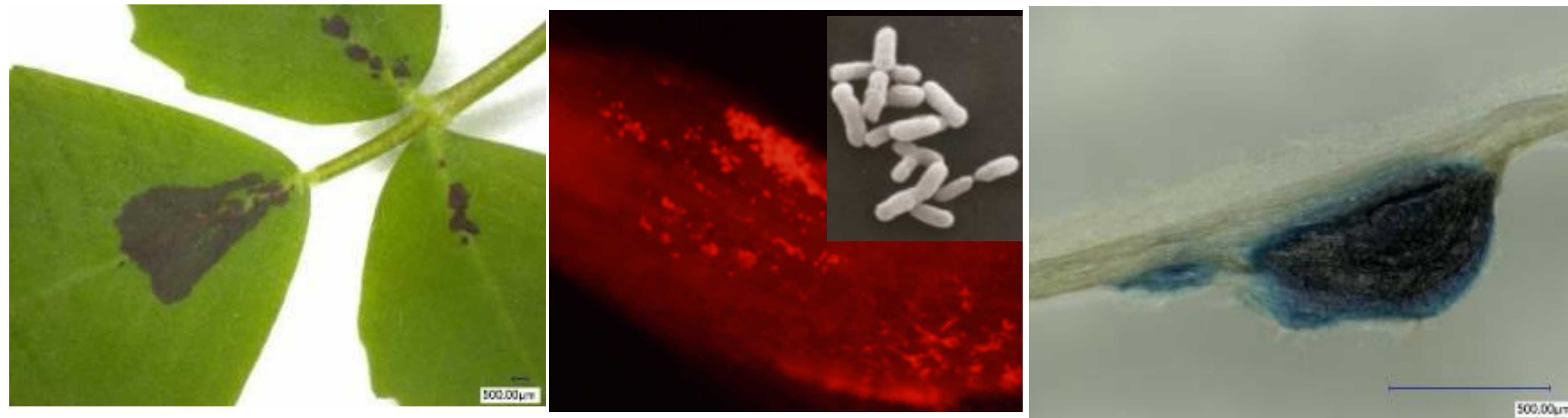
Space Flight Experiments

	Acronym	Hardware	Mission	Role	Role
	CUE	PGF	STS-87	Project Scientist	Collaborative Ukrainian Experiment, multiple PI's
	PESTO	BPS	STS-110	PI	Space effects on Photosynthesis. 1 st flight of BPS.
	RASTA	---	---	PI	VOC effects in microgravity-deselected following STS-107
	MuRGE	---	---	PI	Ground based feasibility study
	SyNRGE	BRIC	STS-135	PI	Plant Microbe interactions
	VEGGIE	VEGGIE		Project Scientist	Technology demonstration, G. Massa, PI
	SyNRGE ³	NanoRack	SpX 4	PI	Plant microbe interactions in microgravity
	SyNRGE ³ -II	NanoRack	SpX 8	PI	Plant microbe interactions in microgravity (reflight)

Role of microgravity on plant microbe interactions



Unique environment of space affects the functioning of plants and bacteria.



Microgravity is tool to accelerate selection of
beneficial relationships.



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