

CURRICULUM VITAE AND LIST OF PUBLICATIONS

MANUEL TEODORO TENANGO

Date of birth: May 31st 1986

Place of birth: Mexico City, Mexico

Address: Přístavní 27, 17000, Prague 7, Czech Republic

Email: teodoro@fzp.czu.cz

EDUCATION

1016 - Present

PhD. Applied and Landscape Ecology

University: Czech University of Life Sciences, Prague

Faculty: Environmental Sciences

Thesis: "Interactions of soil microorganisms and plants with stabilising amendments in contaminated soils"

2012-2014

M.Sc. Natural Resources Conservation

University: Instituto Politecnico Nacional (IPN)

Faculty: Interdisciplinary Centre for Rural Investigations (CIIDIR, Oaxaca)

Thesis: "Study of plant community growing in tailing with silver mine wastes and its phytoremediation capacity"

2004-2008

Bsc. Forest Restoration

University: Chapingo University (UACH)

Faculty: Forestal Sciences Department (DICIFO)

Thesis: "Dormancy break of *Mimosa lacerata* seeds."

Publications

2020 - **Manuel Teodoro**, Lukáš Trakal, Brett N. Gallagher, Pavel Šimek, Peter Soudek, Micheal Pohořelý, Luke Beesley, Lukáš Jačka, Martin Kovář, Samar Seydsadr and Dinesh Mohan *Application of co-composted biochar significantly improved plant-growth relevant physical/chemical properties of a metal contaminated soil*. Chemosphere, 242: 125255.

DOI: 10.1016/j.chemosphere.2019.125255

2020 - **Manuel Teodoro**, Michael Hejzman, Martina Vítková, Songlin Wu, Michael Komárek. *Seasonal fluctuations of Zn, Pb, As and Cd contents in the biomass of selected grass species growing on contaminated soils: implications*

for in situ phytostabilization. Science of The Total Environment, 703: 134710.
DOI: 10.1016/j.scitotenv.2019.134710

2019 - Ariana Latini, Giovanni Bacci, **Manuel Teodoro**, Daniele Mirabile Gattia, Annamaria Bevivino and Lukáš Trakal. *The impact of soil-applied biochars from different vegetal feedstocks on Durum Wheat plant performance and rhizospheric bacterial microbiota in low-metal contaminated soil*. Frontiers in Microbiology, 10: 2694.
DOI: 10.3389/fmicb.2019.02694

2019 - Songlin Wu, Tomáš Cajthaml, Jaroslav Semerád, Alena Filipová, Mariana Klementová, Roman Skála, Martina Vítková, Zuzana Michálková, **Manuel Teodoro**, Zhaoxiang Wu, Domingo Martínez-Fernández and Michael Komárek. *Nano zero-valent iron aging interacts with the soil microbial community: a microcosm study*. In Environ. Sci.: Nano, 6: 1189-1206 ,
DOI: 10.1039/c8en01328d

2018 - Songlin Wu, Miroslav Vosátka, Katarina Vogel-Mikus, Anja Kavčič, Mitja Kelemen, Luka Šepec, Primož Pelicon, Roman Skála, Antonio Roberto Valero Powter, **Manuel Teodoro**, Zuzana Michálková, and Michael Komárek. *Nano Zero-Valent Iron Mediated Metal(loid) Uptake and Translocation by Arbuscular Mycorrhizal Symbioses*. In Environmental Science and Technology, 52(14): 7640-7651.
DOI: 10.1021/acs.est.7b05516

Participation in Projects

- GACR-17-25536Y “Phytoremediation of contaminated soils using nanoparticles: implications for the rhizosphere”
- CIGA-20174205 “Interactions of arbuscular mycorrhiza with nano zero-valent iron and their influence on metal(oid) behaviour in plant-soil system”

- IGA-4240013123156 “Effects of nZVI on the symbiosis AMF - plant: The use of species tolerant to contamination for assisted phyto-stabilization”
- QK1910056 Ministry of Agriculture. “Long-term test of the biochar application produced from waste biomass to solve drought in intensively farmed areas of the Czech Republic”

Participation in Conferences

August 2019

Goldschmidt Conference.
Barcelona, Spain

Poster "Seasonal development of Zn, Pb, As and Cd contents in the biomass of selected grass species growing on contaminated soils: Implications for phytostabilization".

October 2018

XV International Phytotechnologies
Conference. Novi Sad, Serbia

Presentation "Aided Phytostabilization: Effect of biochar and nano zero-valent iron on seed germination".

September 2017

XIV International Phytotechnologies
Conference. Montreal, Canada

Poster "Use of nano-iron for soil remediation: metal/metalloid behaviour within the rhizosphere".

July 2017

IX International Conference on
Mycorrhiza. Prague, Czech Republic.

Poster "Presence of arbuscular mycorrhizal fungi in indigenous grasses growing in contaminated soils".

April 2014

Local symposium Jornadas
Politecnicas. Oaxaca, Mexico.

Presentation "Phytoremediation as alternative for polluted soil restoration".

April 2014 XVI National Congress of Agronomic Sciences. Chapingo, Mexico.
Presentation "Structural description of vegetation established in silver mine tailing in San Jeronimo Taviche, Oaxaca".

November 2013 VII International Congress Red Latinoamericana de Ciencias Ambientales. San Carlos, Costa Rica
Main author of the presentation "Species richness of indigenous plants in tailing from silver mine wastes in Oaxaca, Mex."

Experience

Feb 2012 - Feb 2013 Consultant. ETRADETER, S.C.
Environmental supervision in civil engineering and social projects

Feb 2011 - Jan 2012 Supervisor. PROBOSQUE
Technical supervision for forest management programs to be in accordance with federal laws.

Oct 2008 - May 2009 Technical support. CONAZA
Design and implementation of projects for Conservation and sustainable use of water and soil (program COUSSA).