Biodiversity, Ecosystems and One Health

Research focus & main expertise

restoration ecology
conservation biology
entomology
community ecology
molecular and chemical analyses
wetlands ecology
soil ecology
Simona Polakova
BC CAS (CZ)

RESEARCH FOCUS
MICROBIOTA
FERMENTATION
FOOD RESEARCH
Anna Maria Ogrodowczyk
InLife PAS (PL)

NBS
water system
environ. Gov

Characterisation of Fermentation Systems (spontaneous)
Christian von Wallbrunn
HGU (DE)

Field crop yield, analysis of quality, soil quality & micro-diversity.
Evelin Loit-Harro
EMU (EE)

Bioeconomy, AI, Foodsec, sustainable production
Adam Hruška
CZU (CZ)

- Experience in chemical and biochemical characterisation of plant based material
Lillian Barros
IPB (PT)

Vaccines against ticks & mites
BioPesticides
Jan Perner
BC CAS (CZ)

- One Health
- extracellular vesicles
- AMR
Alireza Fazeli
EMU (EE)

- plant protection
- soil protection
- organic farming
- climate change
- strategies, recommendations, methodologies, programmes
Agnieszka Klembalska
IPP – NRI (PL)

Food analysis
biodiversity of gut microbiome
bioactive in food change biodiversity of microbiome
Dagmara Złotkowska
InLife PAS (PL)

- Entomology
  - Scouting
  - Breeding
- applied plant research
- Water quality
- Soil
- Genomics
Carina Eisfeld
SCFF (NL)

- Bioactive Compounds
- Health promoting Effects
- Human gut health
Sana Ben Othman
EMU (EE)

Nature-based solutions NBS
wetland management
Living Labs
Health benefits and risks of NBS
constructed wetlands
Barbara Sowińska-Świerkosz
UP Lublin (PL)

- RECYCLING
- CIRCULARITY
- WATER TREATMENT
Claudia Belviso
NRC (IT)

- Sustainable resilient cropping systems
  - chemical free
- biocontrol mechanisms
- soil health
Birgit Teunissen
AgroNext (NL)

1) creating demo sites with local research institutions
2) connecting Western Balkan partner with project topics
Vesna Neskovic
ABE (RS)

BIOLOGICAL (GENETIC) RESOURCES / DIVERSITY OF FRUITS & BERRIES

PLANT-BASED BIOACTIVES

FUNCTIONAL FOOD INGREDIENTS
Reelika Rätsep
EMU (EE)

Research infrastructure & resources

molecular labs
chemical labs
artificial environment ships and trailers
Simona Polakova
BC CAS (CZ)

- Human Gut Microbiota Simulation (SHIME)
- ~~[illegible]~~ Valorization Technologies (Extraction)
Sana Ben Othman
EMU (EE)

e-DNA Lab

- Field trials – experimental or producer field
- LAB for quality
- LAB for DNA analysis
Evelin Loit-Harro
EMU (EE)

Strong Compus
AI toolkit
Labs for biogas + water transfer sustainability
Adam Hruška
CZU (CZ)

INFRASTRUCTURE
PROTEOMIC / METABOLIC
IMMUNOREACTIVITY
MICROBIOLOGY LAB
MOLECULAR / ANIMAL
SENSORY LAB / FACILITY
UNIT FOR WILD ANIMALS CARE
Anna Maria Ogrodowczyk
InLife PAS (PL)

Field station KB
2) Machinery – for simplified tillage
3) Farmers – Organic IPM
4) Greenhouse, chambers
5) Utensils for plant physiol

Super computer for AI calculation

- lab: chemical + microbiological
- greenhouse
- Genomics metabolomics
- eDNA
Carina Eisfeld
SCFF (NL)

- open field [illegible] fields
- greenhouses [illegible]
- lab for
  - microbiology
  - analytical
  - [illegible]
Birgit Teunissen
AgroNext (NL)

Mountain Research Centre – CIMO – PT
LC-MS / GC-MS/MS orbitrap / equip / for chemical characterisation
Lillian Barros
IPB (PT)

1) DEMO SITE on blueberries
2) DEMO SITE on agrobiodiversity (PERI-URBAN and RURAL)
Vesna Neskovic
ABE (RS)

NanoParTicle Analysis
-Genomics proteomics
Alireza Fazeli
EMU (EE)

ECOTRONS
highly controlled ~~experimental~~ facility to simulate how ecosystems respond to global change
Laurent Bernadou
CNRS (FR)

modern equipment, drones, greenhouses
600 ha experimental fields
sprinklers, accredited laboratories, branches all over the Poland
Agnieszka Klembalska
IPP – NRI (PL)

[illegible] cereals, perennial cereals, herbs
- Regenerative soil tillage
- Eco-farming
KB

Rearing Facility of Arthropods
Jan Perner
BC CAS (CZ)

Drones
~~[illegible]~~
GIS software
Barbara Sowińska-Świerkosz
UP Lublin (PL)

Data repository

Microbiological analysis
in vitro, ex vivo models
animal infrastructure
wild animals, water control [illegible]
Dagmara Złotkowska
InLife PAS (PL)

Microbiology
Chemical analytics of Flavours, organic compounds
Molecular Biology
Christian von Wallbrunn
HGU (DE)

MODERN RESEARCH LABS

BIOLOGICAL COLLECTION OF FRUITS & BERRIES

INTERDISCIPLINARY TEAM
Reelika Rätsep
EMU (EE)

Engagement with socio-economic stakeholders

Support Pathways To Exploitation Business Creation and Commercialisation
Mario Roccaro
Impact Brussels

Orchestrator For SSH Partnership
Mario Roccaro
Impact Brussels

"Zones Atelier" like Living Labs approach with researchers, decision-makers and end-users (practitioners)
Laurent Bernadou
CNRS (FR)

Global south connections
↳ universities worldwide
↳ Associations
Adam Hruška
CZU (CZ)

Living Lab for R&D

Living labs
- Industry partners
KB

- Farmers
- Chamber of Agriculture
- Young farmers association
Evelin Loit-Harro
EMU (EE)

AgroFood industries, SMEs, Research centres
Lillian Barros
IPB (PT)

Managers of protected areas
Local authorities (City offices, Rural Communities)
social perception, co-design, citizen science
Barbara Sowińska-Świerkosz
UP Lublin (PL)

cooperation
- with NGO
- conservation agencies
Simona Polakova
BC CAS (CZ)

1) policy analysis
2) incorporating non-EU legal framework and gap analysis with EU legal framework
Vesna Neskovic
ABE (RS)

farmers, advisors, policy makers, EU/Polish institutions, producers, SMEs
Agnieszka Klembalska
IPP – NRI (PL)

- FARMERS
- SMES
- MINISTRIES
- SECTORIAL ASSOCIATIONS
- NGO-s
Reelika Rätsep
EMU (EE)

Partnerships & international networks

Network Creation and Matchmaking
Mario Roccaro
Impact Brussels

CROSPATH
EIT
Anna Maria Ogrodowczyk
InLife PAS (PL)

- Ecological International Association
- European Universities, Research Centers and companies
- Citizen Science Association
Barbara Sowińska-Świerkosz
UP Lublin (PL)

* farmers networks and associations
Birgit Teunissen
AgroNext (NL)

InLife colleagues has international connection
Dagmara Złotkowska
InLife PAS (PL)

scientific organisations (Butterfly Europe...)
not sure about others
Simona Polakova
BC CAS (CZ)

1) BIOEAST Initiative
2) Regenerative Agriculture Alliance of Serbia
Vesna Neskovic
ABE (RS)

International Research Network CNRS – CAS (Chinese Academy of Sciences) on Biodiv.
Laurent Bernadou
CNRS (FR)

French-Brazilian Centre for Amazonian Biodiversity
Laurent Bernadou
CNRS (FR)

IFL – International Food Tec Lab
EuFibe Cost action
PANDA
Lillian Barros
IPB (PT)

Network Nature

International Research Lab "Health Deep" specialised in One Health research Bangkok, Thailand
Laurent Bernadou
CNRS (FR)

BIOEAST
ELLS
jetc.
Katrin Kepp
EMU (EE)

FOODFORCE
ISHS
ELLS
Reelika Rätsep
EMU (EE)

_ONE Health center
Alireza Fazeli
EMU (EE)

Project experience & preferred role

NBS4 Drought / Horizon
NatureScape / Biodiversa

WP2 Leader
Social / Technical Partner
Barbara Sowińska-Świerkosz
UP Lublin (PL)

PROJECT EXPERIENCE / ROLE
TASK LEADER OR PARTNER
PARTNER
Anna Maria Ogrodowczyk
InLife PAS (PL)

Partner
National project grants
Cornet (International)
Christian von Wallbrunn
HGU (DE)

UNDP projects
Horizons
Preffer member in consor
Adam Hruška
CZU (CZ)

coordination project partners
Simona Polakova
BC CAS (CZ)

_Coordinator
-Partner
Alireza Fazeli
EMU (EE)

partner
task leader WP
Dagmara Złotkowska
InLife PAS (PL)

Partner
Carina Eisfeld
SCFF (NL)

1) Coordinator
2) WP Lead – DEMO SITE
3) DEC activities
Vesna Neskovic
ABE (RS)

- Few projects in agrobiodiversity, soil tillage, rural development
- Partner
KB

PARTNER,
WP LEADER
TASK LEADER
Reelika Rätsep
EMU (EE)

-PARTNER
Claudia Belviso
NRC (IT)

Team member
co-leader
Lillian Barros
IPB (PT)

- partner
- WP leader
- task leader
Agnieszka Klembalska
IPP – NRI (PL)

Experience in ERA-net projects
- CONNECTFARMS – intercropping
- ~~[illegible]~~
- BioCrop – inter-cropping
Evelin Loit-Harro
EMU (EE)

Partner
Katrin Kepp
EMU (EE)