



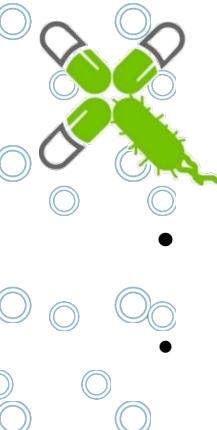
Grupa za eko-biotehnologiju i razvoj lekova

*Institut za molekularnu genetiku i genetičko
inženjerstvo, Univerzitet u Beogradu*

Dr Jasmina Nikodinović-Runić

naučni savetnik





Tim

- **16 istraživača**
- znanja iz biologije, hemije, polimera, veterine i mikrobiologije



Naš fokus:

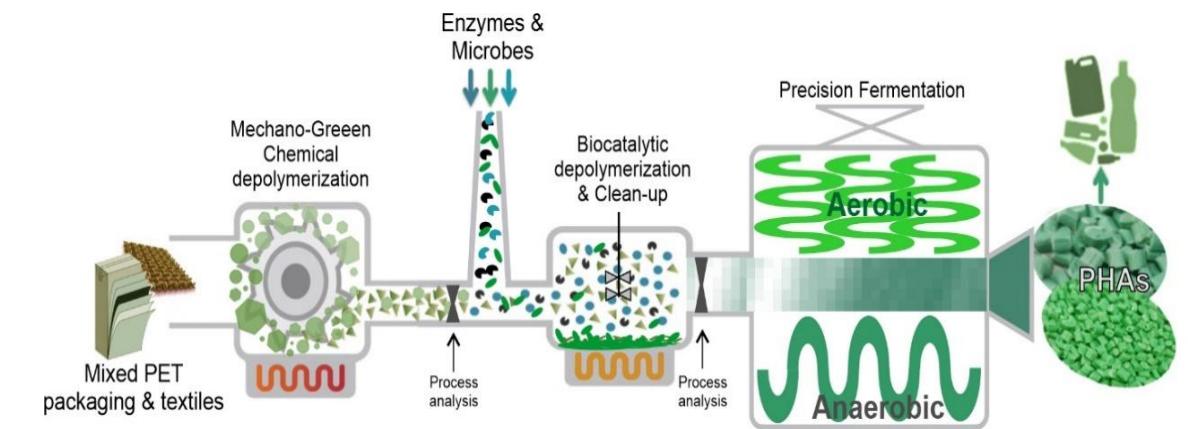
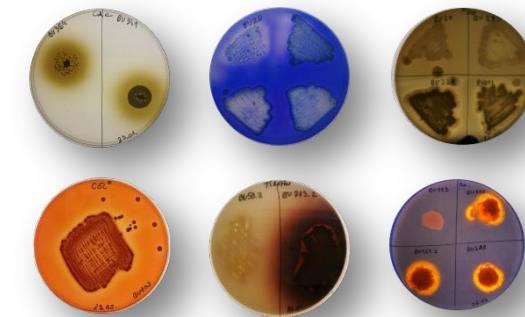
- Biokataliza i zeleni procesi
- Biorazgradivi materijali
- Eko-inovativna reciklaža
- Biotehnološka rešenja za plastični otpad



MIKROPLASTIKA ZA DORUČAK - PRVI SUSRET ISTRAŽIVAČA MIKO I NANOPLASTIKE SRBIJE,
CRNE GORE & BOSNE I HERCEGOVINE

Naš pristup

- Kolekcija mikroorganizama za biokatalizu i bioreciklažu
- Koncept od otpada do vrednosti (W2V)
- Konverzija plastičnog otpada u biomaterijale, bioaktivne molekule i biosurfaktante
- Inovativni materijali za biomedicinske i ekološke primene na bazi biopolimera polihidroksialcanoata (PHA) i bakterijske nanoceluloze
- Bio-alternative za pigmente i farmaceutske proizvode



Analiza i oprema

- Enzimska degradacija plastike i analiza proizvoda razgradnje
- Usmerena evolucija proteina za poboljšanu aktivnost enzima
- Genomska pretraga za nove biokatalizatore
- Proteomske studije degradacije i metaboličkih promena
- Metagenomska analiza mikrobnih zajednica

Bioreactor
EDF-5.4_1,
5 L and 20 L



Spray drier,
continuous
flow centrifuge



RTS-8 Plus Multi-channel bioreactor
with non-invasive OD, pH and pO₂
monitoring (Bio-San)



BioTek Epoch
Microplate Reader



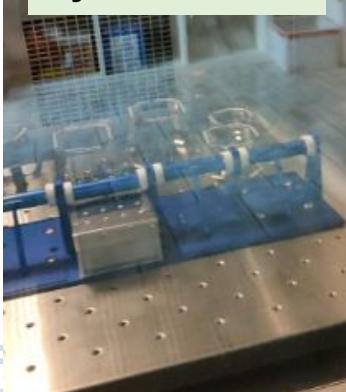
Freeze Drier Alpha
1-2 LDplus Entry
Package



HPLC Ultimate 3000 &
TSQ Fortis LC/MS



System Duetz



Projekti



TwInn4MicroUP - Twinning Innovation Hub for Microbial Platforms in Plastic Upcycling

– HE TWINNING

www.twinn4microup.eu

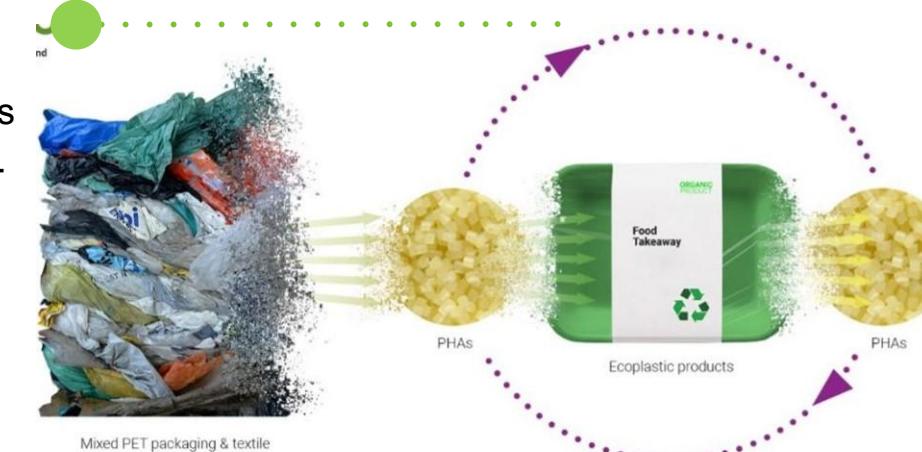
TwInn4MicroUp

EcoPlastiC - Eco conversion of lower grade PET and mixed recalcitrant PET plastic waste into high performing biopolymers

– HE PATHFINDER PROJECT



<https://ecoplasticproject.eu/>



NEW

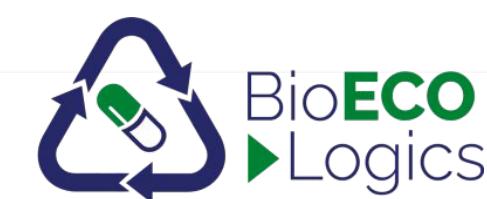


Bio²PEs: DEVELOPMENT OF BIO-BASED AND BIODEGRADABLE POLYETHYLENE AND POLYESTERS FOR PACKAGING AND AGRICULTURAL APPLICATIONS



BioECOLogics - Value-added biologics through eco-sustainable routes

www.bioecologics.rs



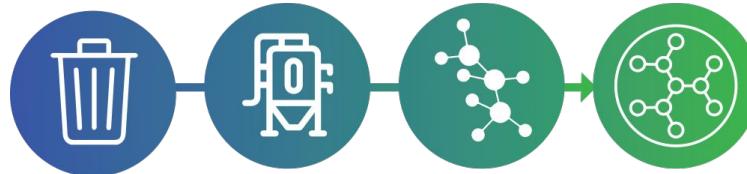
TIKE SRBIJE, HERCEGOVINE
– HE PATHFINDER CHALLENGES

MIKROPLASTIKA ZA DORUČAK - PRVI SUSRET ISTRAŽIVAČA MIKRO I
NANOPLASTIKE SRBIJE, CRNE GORE & BOSNE I HERCEGOVINE



INSTITUT ZA MOLEKULARNU
GENETIKU
I GENETIČKO INŽENJERSTVO
Univerzitet u Beogradu

Hvala



Palatinus.
POSLOVNO SVETOVANJE
Andreja Palatinus s.p.

