



Kultura očuvanja biljnog zdravlja - znanstvena istraživanja patogenih gljiva šumskog drveća

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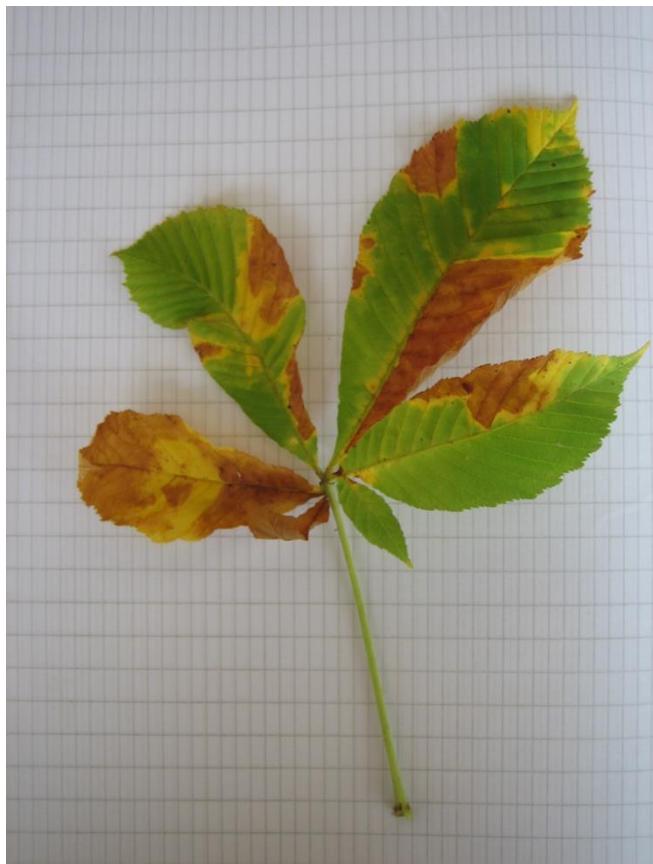
Zagreb, 10.05.2021.



Laboratorij za fitopatološko istraživanje



Simptomi bolesti nekroza lista
divljeg kestena,
uzročnik gljiva
Guignardia aesculi



Simptomi bolesti pepelnica na
listu hrasta lužnjaka
uzročnik gljiva
Erysiphe alphitoides



Simptomi bolesti nekroza lista
obične bukve,
uzročnik gljiva

Apiognomonia errabunda



Simptomi bolesti pjegavost lista pitomog
kestena,
uzročnik gljiva

Mycosphaerella maculiformis



Gljive truležnice na deblu

Trametes sp.



Phellinus pini



Simptomi bolesti na deblu - aktivni rak kore pitomog kestena
uzročnik gljiva
Cryphonectria parasitica



Postupak izolacije gljive iz biljnog tkiva nacjepljivanjem na hranjivu podlogu



Cryphonectria parasitica



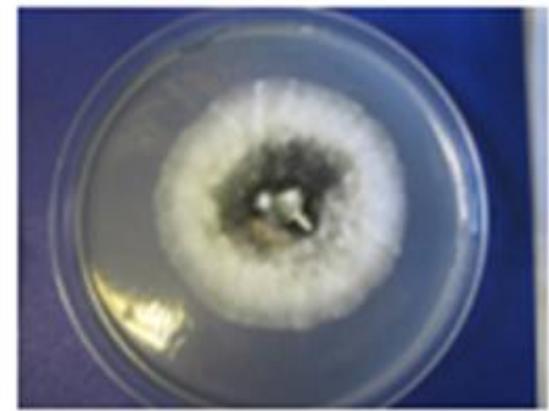
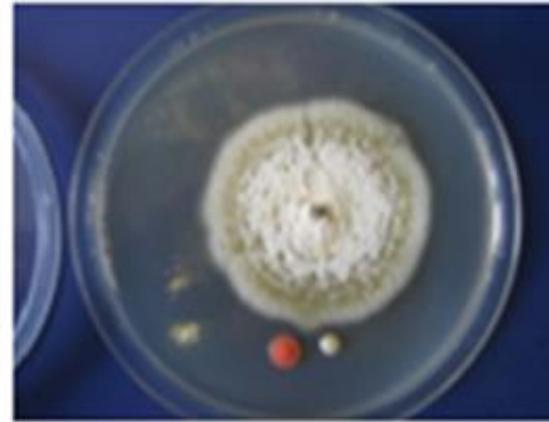
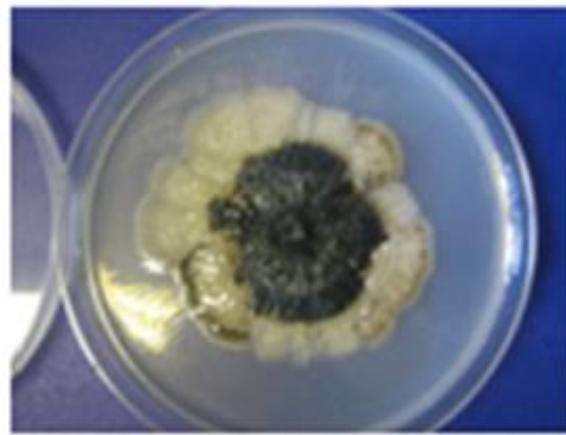
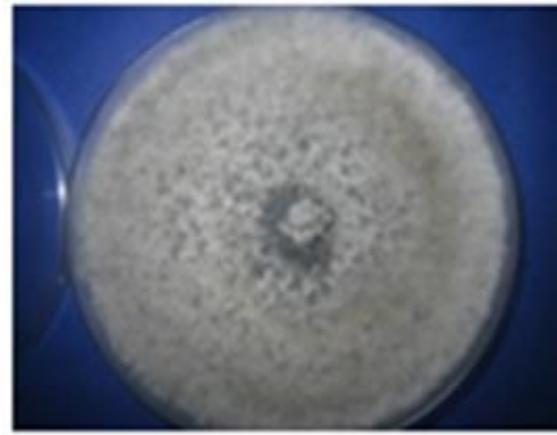
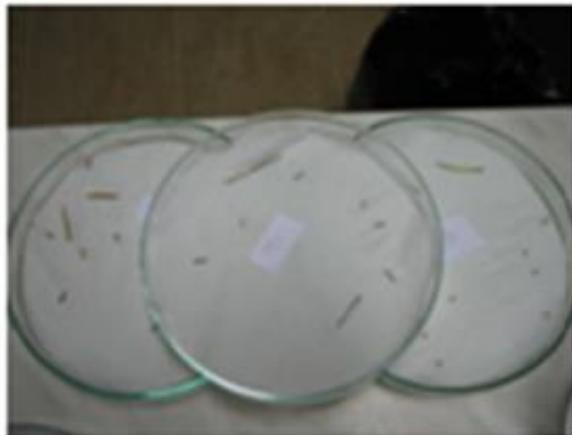
Aktivni rak – narančasti micelij



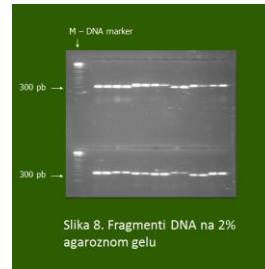
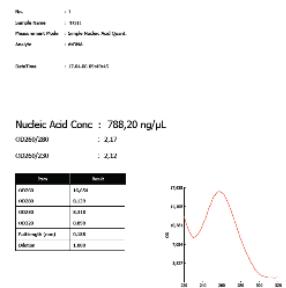
Površinski rak – bijeli micelij



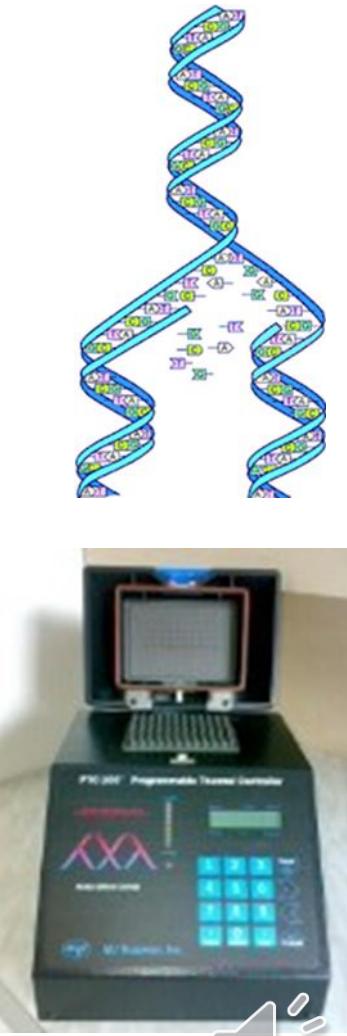
Kulture raznih patogenih gljiva izoliranih iz bolesnih iglica običnog bora



LABORATORIJ ZA MOLEKULARNO-GENETIČKA ISPITIVANJA



Slika 8. Fragmenti DNA na 2% agaroznom gelu

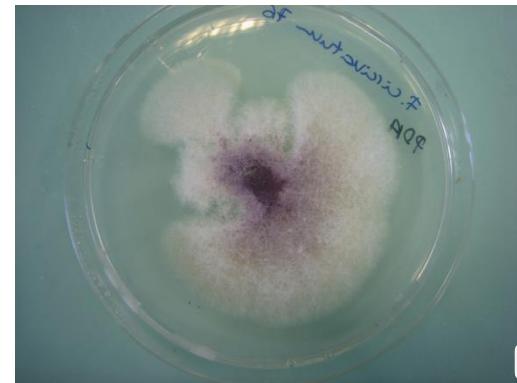
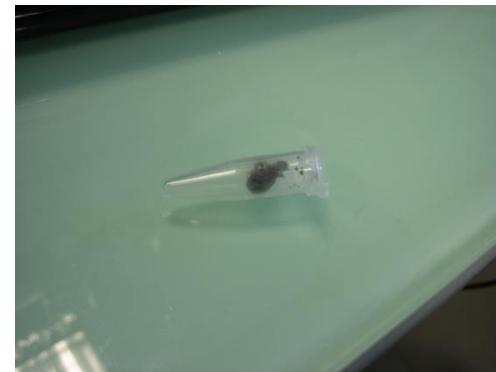


Metode analize DNA

- Izolacija DNA
- Umnožavanje fragmenata – lančana reakcija polimeraze (PCR)
- Sekvenciranje DNA– određivanje primarnog redoslijeda parova baza
- Uspoređivanje sekvenci DNA sa sekvencama DNA pohranjenim u genetičkoj bazi podataka (GenBank, NCBI)



Izolacija sveukupne DNA



Lančana reakcija polimeraze PCR - Polymerase Chain Reaction

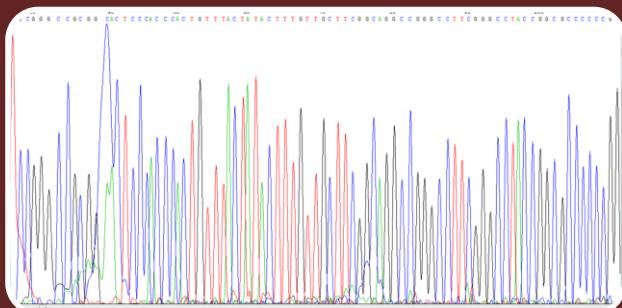
Populacijska struktura

Mikrosateliti

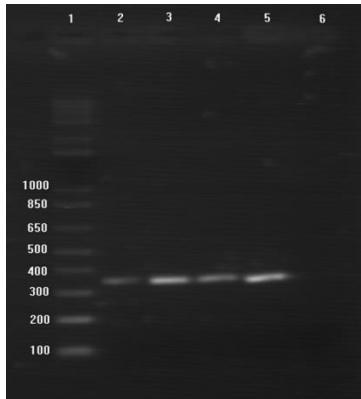


Brza identifikacija

RNA geni ribosoma



DNA sekvenca *Eutypella parasitica* (ITS regija)



1 tgcatcgatg aagaacgcag cgaaatgcga taagtaatgt gaattgcaga attcagtgaa
61 tcatacgaaatc tttgaacgcga cattgcgcggcc attagtattc tagtgggcat gcctgttcga
121 gcgtcatttc aacccttaag ccctagttgc tttagtgttgg gaacctaccc tgttaggtgt
181 tccttaaata tatcgccgga gtcgtgtatgc ccctaagcgt agtaattctt tctcgcttca
241 gtgggtgtcag cgctgacgtt tagccgttaa accccctatt ttcttagtggt tgacctcgga
301 tcaggttagga atacccgcta act



Banka gena (NCBI)

NCBI Resources How To Sign in to NCBI

PopSet PopSet Search Help

GenBank Send to: Analyze this data set
Run BLAST alignment

Eutypella parasitica 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.

PopSet: 917548175
[PopSet](#) [FASTA](#)

Sequences

Study Details

Eutypella parasitic davidson & lorenz seven years after the first tests in Croatia
Novak Agbaba,S.

Go to: ▾

LOCUS KP868619 323 bp DNA linear PLN 22-AUG-2015
DEFINITION Eutypella parasitica 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.
ACCESSION KP868619
VERSION KP868619.1
KEYWORDS .
SOURCE Eutypella parasitica
ORGANISM [Eutypella parasitica](#)
Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Xylariomycetidae; Xylariales; Diatrypaceae;

Analyze this data set
Run BLAST alignment

Related information
Taxonomy
Nucleotide

Recent activity Turn Off Clear

Eutypella parasitica 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. (Select 917548175) (1)

PopSet Links for Nucleotide (Select 917548175) (1)

Eutypella parasitica 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. (Select 917548175) (1)

Eutypella AND parasitica (36)

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