



MINISTERUL EDUCAȚIEI ȘI CERCETĂRII
ROMÂNIA

UNIVERSITATEA DE MEDICINĂ,
FARMACIE, ȘTIINȚE ȘI TEHNOLOGIE
„GEORGE EMIL PALADE”
DIN TÂRGU MUREȘ

ROMANIA
GEORGE EMIL PALADE UNIVERSITY OF MEDICINE,
PHARMACY, SCIENCE AND TECHNOLOGY OF TARGU MURES

STUDENTS RESEARCH GROUPS
FACULTY OF PHARMACY
Available research places for students
ACADEMIC YEAR 2020-2021

Name, acronym	Coordinators
Molecular biology and microbiology MBM	Assoc. prof. Manuela Curticapean, PhD Lecturer Barabas Eniko, MD, PhD





**Student research group on molecular biology and microbiology issues
Academic year 2020-2021**

Acronym: MBM

Team:

Group coordinators: Assoc. prof. Manuela Curticapean, PhD; Lecturer Barabas Eniko, MD, PhD
Technician Darko Bela

Contact:

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Research topics:

- Research regarding establishment protocols for nucleic acids isolating and amplifying for identification and comparison of plants, bacteria and fungi species;
- Research regarding GMO identification;
- Evaluation of anti-infective potential of chemical compounds, plant extracts;
- Intestinal parasitoses, toxoplasmosis, tissue parasites, microbiological control of pharmaceutical preparations, bacterial infections of the respiratory, urinary, genital pathways, antibiotic resistance of the uropathogenic microorganisms.

Research infrastructure (relevant items):

- PCR IQ⁵ (Bio-Rad) ;
- Gel electrophoresis system (Thermo Scientific).

Students involved:

2020

- Ferestăoariu Ana-Maria
- Lukacs Katalin
- Oniga Luciana
- Oprea Ana-Maria
- Petculescu Diana
- Pleșa Iulia
- Pop Anca
- Trandafir Andreea
- Csanyi Tamas
- Soiu Madalina
- Szekely Cosmina
- Trufasu Deborah
- Turos Greta
- Apostol Ecaterina
- Meghesan Ioana
- Hegyi Szabolcs
- Marschall Henrietta





- Rus Anett
- Habuc Maria
- Szabo Zsuzsanna
- Coroșan Annamaria
- Bot Timea

Relevant techniques:

PCR; qRT-PCR

Gel electrophoresis

Microscopy, cultivation of bacteria, antibiotic sensitivity testing,

Microscopy, concentration of parasites,

Serological reactions: Elisa, immunochromatography,

Dilution methods for the tested substances,

Microscopical photography.

Relevant *in extenso* ISI articles of the research team (as main authors: first author, corresponding author and last author; *students):

Enikő Barabás- Hajdu, Sátán Edith, Mihály Ágnes* - *Urogenital myiasis: a human case report*, Acta Microbiologica et Immunologica Hungarica, 2012, 59, p.469-473. DOI: 10.1556/AMicr.59.2012.4.4

Mártha O, Fodor IL*, Szep E., Maier A, Enikő Hajdu Barabás - *Ureaplasma genital infections in an ambulatory urology ward*, European Urology, suppl., 12, e1147, c39, ISI A, FI: 2,162.

BDI articles

Nemes-Nagy E, Uzun CC, Maier A, Man A, Vida ÁO, Demeter R*, Abtessam NA, Pál S, Kudor-Ferice B*, Kovács RZs), Fazakas Z, Balogh-Sămărghișan V, Simon Szabó Zs, Fodor MA, Incze A, Kolcsár M, Szabó M, Mártha O, Barabás Hajdu E - *Study on urinary tract infections in predisposed patients*, Management în sănătate XIX/3/2015; pp. 26-28.

Gorea Diana*, Hancu G, Rusu Aura, Cârje Anca, Barabás Enikő - *Quality assessment indicators of surface waters and soils in the vicinity of the former sulphur mines in the Călimani Mountains*, Forum geografic. Studii și cercetări de geografie și protecția mediului Volume XIII, Issue 2 (December 2014), pp. 212-218 (7) <http://dx.doi.org/10.5775/fg.2067-4635.2014.166.d>

Mártha O, Maier A, Mălău O, Sz. Sándor*, Pricop C, Barabás-Hajdu E - *Ureaplasma male genital infections in an ambulatory urology ward*, Revista română de urologie, 2013, 12, p 29-33, Rev Rom Uro, BDI.

Curticăpean M, Toma F, Șoptorean AM* - *Detection of the sensitivity of some bacteria and fungi to the action of sodium phosphotungstate beta - $Na_6[P_2W_{18}O_{62}] \times 18 H_2O$* , Bacteriol.Virusol.Parazitol.Epidemiol., 2007, 52(3-4): 139-147, Indexată MEDLINE, PubMed, PMID: 19326727

Relevant abstracts with students contributions*:

Barabás- Hajdu E, Turos Greta* - *Controlul purității microbiologice a preparatelor farmaceutice*, Orvostudományi Ertesito, 2020, 93, suppl.1, p.153.

Puia Romulus*, Todoran Emilia Florina*, Silasi Oana Alexandra*, Barabas Eniko, Todoran Nicoleta - *The labelled cosmetic ingredients and the microbiological quality of a "natural & organic" moisturising*





cream vs. a moisturising cream, Congresul Științific Marisiensis, 2018, poster, Acta Medica Marisiensis, vol 64, S1, 2018, p. 84.

Kucsera Dániel*, Barabás- Hajdu E - *Dinamica parazitozelor intestinale în spitalul pentru bolnavi handicapați de la Brâncovenești*, Orvostudományi Értesítő, 2018, vol.91, supl.TDK, p.78.

Szigeti Amália-Beáta*, Váncza Lóránd*, Barabás- Hajdu E - *Tetraciklinrezisztencia előfordulása húgyúti fertőzésekben, rezistență la tetraciclina a bacteriilor izolate din infecții ale tractului urinar*, Orvostudományi Értesítő, 2018, vol.91, TDK, p.177- 178.

Szabó Evelin-Andrea*, Pál Sándor*, Raluca Tilinca*, Barabás- Hajdu E - *Laboratóriumi állapotjelzők és társbetegségek összehasonlítása beutalt, illetve ambuláns cukorbeteg esetében, compararea parametrilor de laborator și a bolilor asociate la pacienți diabetici spitalizați și din ambulatoriu*, Orvostudományi Értesítő, 2018, vol.91, TDK, p.36, premiul 1. in secțiunea de diagnostic de laborator.

Barabás- Hajdu E, Sándor Sz*, Cighir T, Majoros L, Kovács M, Maráz A - *Urinary tract infections caused by Trichosporon*, Acta Microbiologica et Immunologica Hungarica, 62, 2, supplement, 2015, pp. 132-133.

Kudor Ferice B* - *Risk factors in occurrence of urinary tract lithiasis*, Orvostudományi Értesítő, 88, 2015, p.26.

Kenyeres A*, Benkő H*, Koncz Sz* - *Frequency of multiresistant bacterial strains and importance of targeted therapy*, Orvostudományi Értesítő, 88, 2015, p.139.

Demeter R*, Kovács ZSR*, Kudor- Ferice B* - *Frequency of bacteria causing urinary tract infections and their antibiotic resistance*, Orvostudományi Értesítő, 88, 2015, p.147.

Iacob OM*, Curticapean M, Bucur R, Sin AI - *Methods of qualitative assessment regarding the presence or absence of genetically modified organisms in food products*, Acta Medica Marisiensis, 2014, 60 (4) : 38. (Conferința doctoranzilor, 2014).

Sándor Sz.*, Barabás-Hajdu E - *Antibiotic resistance evolution among E. coli strains causing urinary tract infections*, Acta Medica Marisiensis, abstracts volume, p.30.

Hajdu-Barabás E, Vida O, Maier A, Sándor Sz*, Mártha O - *Rapid laboratory tests compared with urine culture in the diagnosis of urinary tract infections*, XXX National Congress of Urology, 05.- 07.05. 2014, abstracts supplement 13, p. 120-121.

Sándor Sz*, Ambrus I, Mártha O, Barabás-Hajdu E - *Urine test strips and they usefulness*, Acta Medica Marisiensis, suppl. abstracts, 2014, p. 108.

Tőkés EO*, Koncz Sz*, Barabás-Hajdu E - *Phenotipe and molecular studies of extended betalactamase producer (ESBL) Escherichia coli strains*, Acta Medica Marisiensis, suppl. abstracts, 2014, p. 123.

Barabás- Hajdu E, Kerényi M, Sátán E, Ladó Cs*, Mártha O, Emődy L – *Molecular studies of pathogenicity in uropathogenic and extended betalactamase producer (ESBL) E.coli strains*, Orvostudományi Értesítő, 2014, 87, 2, p. 3.

Fodor II*, Balan R*, Balan D*, Mártha O, Barabás-Hajdu E- *Ureaplasma urealyticum urogenital infections in the Marmed Ambulatory Ward*, Acta Medica Marisiensis, suppl. abstracts, 2013.





Enikő Barabás- Hajdu, Leonóra Szép, Sz. Sándor*, Orsolya Mártha - *Comparison of rapid urine test, sedimentation and bacterial culture*, Acta Medica Marisiensis, 59, suppl. 4, 2013, p.81, BDI.

Curticăpean M, Boer M*, Rusu A-M* – *Establishment of protocols for isolation of nucleic acids to identify Stachys and Valeriana species from Botanical Garden of the University of Medicine and Pharmacy from Tîrgu Mureș*, Acta Medica Marisiensis, 2013, 59(3): 8.

Barabás- Hajdu E, Mártha O, Nemes- Nagy E, Pakuts N*, Martonos A* - *Ureaplasma urealyticum- a microorganism with increasing frequency In the etiology of male genital infections*, ROMURO, Book of abstracts, 2012, 11, p.102.

Barabás- Hajdu E, Mártha O, Nemes- Nagy E, Fazakas Z, Sátán E, Fodor II*, Martonos A* - *Trends in the antibiotic resistance of Ureaplasma urealyticum strains isolated from male urogenital infections*, Acta Medica Marisiensis, 2012, Book of abstracts, p.96.

Fazakas Z, Tripon R*, Vida AO, Barabás- Hajdu E, Balogh-Samarghitan V, David E, Nemes-Nagy E - *Arylsulphatase activity related to prostate cancer*, Acta Medica Marisiensis, 2012, Book of abstracts, p.3.

Kirizs R*, Maricic M*, Kirizs T*, Barabás- Hajdu E, Mártha O, Nemes-Nagy E, Szabó M - *Comparison of urinary tract infections in diabetes and non- diabetes presenting patients*, Acta Medica Marisiensis, abstracts volume, 2011, p. 16.

Kirizs R*, Maricic M*, Kirizs T*, Barabás- Hajdu E, Mártha O, Nemes-Nagy E, Szabó M - *Orvostudományi Értesítő*, 2011, 84, p. 28. I price, poster session.

Martonos A*, Shakeri S*, Barabás- Hajdu E, Mártha O, Szávuj J - *Mycoplasma and Ureaplasma infections in patients of an ambulatory Urology ward*, Acta Medica Marisiensis, 57, supplement 1, 2011, p. 16. III.price, preclinical sessions, Marisiensis.

Szász T*, Barabás- Hajdu E - *Evaluation of microorganisms involved in vulvovaginitis and purity grade distribution amongst women attending a gynecological ambulatory care clinique in Targu- Mureș*, Acta Medica Marisiensis, 57, supplement 1, 2011, p. 11.

Szász O*, Para Sz*, Barabás- Hajdu E, Butiurca D - *Human echinococcosis/hydatidosis in the Emergency County Hospital Targu- Mureș in 2009- 2010*, Acta Medica Marisiensis, 57, supplement 1, 2011, p. 14.

Szász T*, Barabás- Hajdu E - *Microorganisms causing bacterial vaginosis*, Acta Medica Marisiensis, abstracts volume, 2011, p. 18. II.price, Students Conference.

Mihály (Bálint) R*, Barabás- Hajdu E - *Synthesis of miconazole argentic and copper compounds and their antimicotic effect*, Acta Medica Marisiensis, abstracts volume, 2011, p. 111. III. Price Students Conference TDK.

Barabás- Hajdu E, Mártha O, Nemes- Nagy E, Kirizs R* - *Multiple resistant Enterobacteriaceae implied in urinary tract infections in an ambulatory urological ward*, International Urology, 2011, supplement 3A, p.78.

Barabás- Hajdu E, Mocan S, Mihály Á*, Barabás D - *Human strongyloidosis- a case report*, Acta Microbiologica et immunologica Hungarica, 2011, 58, p. 7.





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Barabás- Hajdu E, Kovács Z, Sátán E, Szász O*, Para Sz *, Butiurca D, Cretu M, Muresan M - *Echinococcosis/Hydatidosis treated in county Mures, Acta Microbiologica et immunologica Hungarica*, 2011, 58, p. 121-122.

Carabulea Karina* - *Izolarea, identificarea și determinarea rezistenței unor bacterii la metale grele, Acta Medica Marisiensis*, 2010, Premiul I la Marisiensis.

