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Head of Department of Microbiology
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CURRICULUM VITAE

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1. PERSONAL INFORMATION

Name	Efthymia Petinaki
Place and year of birth	Volos, 1961
Marital status	Married, mother of three children
Home address/phone number	Pavlou Mela 13, Volos 38221, Greece/ +30-24210-36112
Work Address	Department of Microbiology, University Hospital of Larissa, 41100, Larissa, Greece
Work Phone / Fax / e-Mail	241350-2508, -2504, -2517 / -1570 / petinaki@med.uth.gr
Foreign languages	French (Sorbonne II) –English (Lower Cambridge)

2. CURRENT POSITION

February 2017 -	Professor of Medical Biopathology-Clinical Microbiology, School of Medicine, University of Thessaly (UTH)
March 2010 –2016	Associate Professor of Microbiology, School of Medicine, University of Thessaly (UTH)
March 2009 –	Head of Department of Microbiology, School of Medicine, UTH (University Hospital of Larissa)
February 2013 –	Director of Department of Clinical Chemistry, School of Medicine, UTH (University Hospital of Larissa)
January 2017-	Professor of Medical Biopathology-Clinical Microbiology, School of Medicine, UTH

3. EDUCATION – DEGREES

1979—1985	Medical School Aristotle University of Thessaloniki
1988—1993	Residency in «Medical Biopathology» (formerly «Microbiology»), University General Hospital of Heraklion, Crete, Greece
1995–2000	Ph.D. Thesis « <i>Study of resistance' mechanisms of staphylococci isolated from patients with nosocomial infections</i> » Department of Microbiology, Medical School, University of Patras

4. POSTGRADUATE TRAINING

28/10 – 28/11/1995	Max-Plank Institut fur Molekulare Genetik, Berlin (Head: Prof. R. Hackenbeck) <i>Scholarship of the Hellenic Microbiology Society</i> <u>Aim:</u> Characterization of Penicillin-Binding Proteins' affinity
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01/08/2006 – Department of Microbiology, University Hospital of Caen, France
 01/08/2007 (Head: Prof. R. Leclercq)

Aim : Molecular basis of resistance to Macrolides- Lincosamides- Streptogramins B of Gram(+)cocci (characterization of *InuD* gene, Gen Bank EF452177 in *Streptococcus uberis*)

5. PROFESSIONAL POSITIONS

January 2017- Professor of Medical Biopathology-Clinical Microbiology, School of Medicine, UTH

09/03/2010 – Associate Professor of Microbiology
 (6½ years) School of Medicine, UTH

02/04/2009 – Director
 (7½ years) Department of Microbiology, School of Medicine, UTH
 (University Hospital of Larissa, UHL)

26/02/2013 – Director
 (3½ years) Department of Clinical Chemistry, School of Medicine, UTH
 UHL

20/08/2004 – 08/03/2010 Assistant Professor of Microbiology
 (5 ½ years) School of Medicine, UTH

17/01/2002 – 19/08/2004 Lecturer of Microbiology
 (2 ½ years) School of Medicine, UTH

17/05/1999 – 16/01/2002 Consultant A'
 (2 ½ years) Department of Microbiology, UHL

01/12/1998 – 16/05/1999 Consultant B'
 (6 months) Department of Medical Biopathology, General Hospital of Larissa

09/09/1995 – 30/11/1998 Consultant B'
 (3 years) Department of Immunology, University Hospital of Herakleion, Crete

01/11/1994 – 08/09/1995 Consultant
 (10 months) Department of Medical Biopathology, General Clinic «Asklipio»,
 Herakleion, Crete

01/06/1993 – 7/10/1994 Member of Research Team,
 (1 year και 4 months) Clinical Microbiology Laboratory, University of Crete (Head: Professor Y.
 Tselentis)

1998-1993 Residency in «Medical Biopathology», University General Hospital of
 Heraklion, Crete, Greece

17/10/1986 – 12/02/1988 Rural Service as Medical Doctor in Promyri, Magnesia, Greece
(1 ½ year)

6. EDUCATIONAL ACTIVITY

A. UNDERGRADUATE LEVEL

i. School of Medicine, University of Thessaly

01/04/2009 – Assumed full responsibility for two obligatory lessons «Microbiology I»
(4 ECTS, 5th semester) και «Microbiology II» (4 ECTS, 6th semester)

Teaching and practical training to undergraduate students of School of
Medicine, University of Thessaly

After taking the responsibility for the lessons, I re-organized the content in order to
focus on clinical microbiology.

Each lecture program includes 52 hours theory and 104 hours laboratory practicals
per year.

17/01/2002 – 01/04/2009 As Lecturer and Assistant Professor, I participated in the teaching (lectures
and practical training) of both subjects «Microbiology I» and «Microbiology
II » (5th και 6th semester, respectively)

2009 – 2012 Participation (12 hours/year) in the teaching of «Pharmacology II» (5th
semester)

Issues: beta lactams, glycopeptides, sulfonamides, trimethoprim, quinolones,
aminoglycosides, spectinomycine, chloramphenicol, tetracycline, macrolides,
clindamycin, streptogramins, linezolid, clinical applications of antimicrobial agents

2004 – 2009 Participation (2 hours/year) in the teaching of «Pharmacology II» (5th
semester)

Issue: Clinical examples of antimicrobial resistance

ii. Department of Biochemistry and Biotechnology, University of Thessaly

2006 – 2015 Responsible for the two-months training on «Microbiology» of
undergraduate students

Supervisor (3) και member of Supervising Scientific Committee (5) Diploma
Theses (all completed)

iii. School of Medicine, National and Kapodistrian University of Athens

2014 – 2015 and Participation (4 hours/ year) in the teaching of the mandatory elective lesson
2015 – 2016 «Travel Medicine and International Health» for 7th, 9th and 11th semester
students.

Issues: Malaria, Diarrhoea of travelers

B. POSTGRADUATE LEVEL

i. School of Medicine, University of Thessaly

- 2009 – M.Sc. program «Clinical Applications of Molecular Medicine»
Responsible for the lesson «Molecular Microbiology»
(26 hours of lectures and 520 hours of practical training).
Supervisor (5) and member of Supervisory Scientific Committee (6) Diploma
Theses (all completed)
- 2004 – 2007 Participation in the above M.Sc. program and supervision of two (2) diploma
reviews and one diploma thesis
- 2007 – 200 and
2015 – 2016 I taught in the M.Sc. program «Primary Health Care» (2 hours/ year) and I
was Supervisor (1) and member of the Supervisory Scientific Committee (1)
of Diploma Theses
- 2007 – 2008 I taught in the M.Sc. program «Hygiene of Water and Food» (2 hours/ year)
and I was Supervisor of 3 Diploma Theses

ii. School of Biochemistry and Biotechnology, University of Thessalia

- 2008- 2012 Supervisor (2) and member of the Supervisory Scientific Committee (4) of
postgraduate students in two M.Sc. programs: «Molecular Biology- Genetics
Application» and «Biotechnology- Nutrition and Environment».

iii. School of Biology, National University of Athens

- 2010 – Participation in the M.Sc. program «Microbial Biotechnology» (4 hours/
year)
Co-supervisor of one Diploma Thesis

C. Ph.D. SUPERVISING COMMITTEES

I have supervised twenty (20) Ph.D. theses, from which the eight first have been completed. In addition, I was a member of the Supervisory Scientific Committee of 28 other Ph.D. theses (11 have been completed), while, I participated as member of the 7-member Examination Committee in 21 others.

D. CONTINUING MEDICAL EDUCATION

i. Education on Medical Biopathology

- 2009 – Responsible for the educational program of interns in Medical Biopathology of the
University Hospital of Larissa (full training in the specialty of Medical Biopathology)
Coordinator of the postgraduate courses on “Microbiology” for interns and clinical
microbiologists in the area of Thessaly
- 1995 – Participation on the educational program (lectures, daily practical training) of the
(19 years) interns of Medical Biopathology

ii. Postgraduate courses

1. Participation in the educational program of "Society of Medical Biopathology" (6hours), Athens 2016
2. Participation on the educational program of " Society of Clinical Microbiology and Laboratory Diagnosis, Athens 2013-2016
3. Organization of four (4) series in Medical Biopathology and participation as teacher (6 hours) *Reserarch Institut of Biopathology and Laboratory in collaboration with Cambridge University Hospitals, Athens 2013*
4. Participation on the educational program «Internal Medicine-Surgery Nursing speciality» *University Hospital of Larissa, (3 hours/ year), Larissa 2010 –to now*
5. Lecture: Epidemiology and prevention of enterococcal infection *National School of Public Health, Athens 2012*
6. Lecture: Cat–scratch disease: causative agent, diagnosis *Educational Program of Internal Medicine, School of Medicine, University of Thessaly, Larissa 2012*
7. Lecture: Role of the microbiological laboratory on the diagnosis of tuberculosis *Educational Program of Internal Medicine, School of Medicine, University of Thessaly, Larissa 2012*
8. Lecture: Microbial resistance – new data *Educational Program of Vascular Surgery Department, School of Medicine, University of Thessaly, Larissa 2012*
9. Lecture: Microbial flora of the University Hospital of Larissa –resistance to new antimicrobial agents *Educational Program of Surgical Department, School of Medicine, University of Thessaly, Larissa 2011*
10. Lecture: Multiresistant bacteria in the University Hospital of Larissa *Informative seminars of 5th Health Prefecture (Thessaly and Central Greece), Larissa 2011*
11. Participation on the educational program of "Hellenic Microbiological Society" (4hours), Athens 2007-2008
12. Organization of the first course "*Antimicrobial agents: action– resistance -treatment*" and participation as teacher **(17 hours)** *Institut of BioMedical Research and Technology (IBET), Larissa 2007-2008*

7. CLINICAL EXPERIENCE AND ACTIVITY

I obtained the medical specialty of Medical Biopathology (former Microbiology) in 1993 after residency in the University Hospital of Heraklion. Since then, I have served 3 years as National Health Service (Greek Health Centre) Consultant B' in the corresponding Department of Clinical Immunology- Histocompatibility at the University Hospital of Heraklion (PEPAGNI), 6 months as Consultant B' in the Department of Medical Biopathology of General Hospital of Larissa and 3 years as Consultant A' in the Department of Microbiology at the UHL. Since 2002, I have been serving uninterruptedly from the position of Lecturer and up to Associate Professor in the Department of Microbiology at the UHL, of which I have been the Director since 2009, while, since 2013 I also direct the Department of Clinical Chemistry. Moreover, since 2011 until today I have been the President of the Hospital Infection Control Committee at the UHL. Consequently, I possess uninterrupted clinical experience at tertiary level in three disciplines of the specialty of Medical Biopathology (Microbiology, Clinical Chemistry, Immunology).

8. ORGANISATION AND ADMINISTRATIVE EXPERIENCE

A. ORGANIZATION OF UNITS

During my service as Consultant B' in the Department of Clinical Immunology – Histocompatibility at PEPAGNI, I participated actively in its organization particularly, in the development of Flow Cytometry Unit.

My appointment to the Department of Microbiology at the University Hospital of Larisa in 1999, coincided with the launch of its operation and, therefore, I took an active part in the organization of diagnostic protocols and laboratory staff training. Especially, after my placement of 9/5/2007 in charge of the newly established Unit of Parasitology, I organized this laboratory, I studied the epidemiology of parasite infections in our region and I introduced new diagnostic methods.

After the assignment of the Direction of the Department of Microbiology at the University Hospital of Larissa, in August 2009, I organized a flu control unit, certified by the Hellenic Center for Disease Control and Prevention (KEELPNO), which managed all suspected cases of H1N1v in the 5th Health Region of Thessaly and Mainland Greece during the pandemic (4000 cases) and which continues to operate until today. At the same time, and after studying the diagnostic requirements of Thessaly, I organized a unit of Molecular Microbiology for supporting:

1. molecular diagnosis of tuberculosis
2. molecular diagnosis of hepatitis B and C
3. molecular diagnosis of viral infections of Central Nervous System
4. investigation of hospital outbreaks
5. molecular diagnosis of *Clostridium difficile* infection

B. ADMINISTRATIVE POSITIONS

- | | |
|-----------------|---|
| 2009 – | Director of Department of Microbiology, School of Medicine, UTH
(UHL) |
| March 2013 – | Director of Department of Clinical Chemistry, School of Medicine, UTH
(UHL) |
| November 2011 – | President of Hospital Infection Control Committee, UHL |
| 2008 – 2011 | Member and vice-President of Hospital Infection Control Committee, UHL |
| November 2016 – | Regular member of Administrative Council of Hellenic Institut Pasteur (Gov Gazette 833/19-11-2016) |
| 2009 – | Regular member of the Examination Committee for the specialization of Medical Biopathology for the Thessaly |
| 2016 – | Regular Member of National Committee of Vaccination |
| 2011 – | Member of the Infection Management Group for multidrug- resistant bacteria of the UHL |
| 2009- | Member of the Advisory Board of the postgraduate program «Clinical Applications of Molecular Medicine» |

2018- Representative of Hellenic National Committee for Antimicrobial Susceptibility in the General Committee of European Committee of Antimicrobial Susceptibility Testing (EUCAST)

2018- Member of the Steering Committee of the European Committee of Antimicrobial Susceptibility Testing (EUCAST)

C. SCIENTIFIC MEMBERSHIP

1. Society of Medical Biopathology (elected member of Administrative Council since 2014 to now)
2. Educational Institut of Biopathology and Laboratory Medicine (Founding member and President since 2013 to now)
3. Hellenic Society of Immunology (regular member)
4. Hellenic Society of Clinical Microbiology and Laboratory Diagnosis (regular member)
5. Hellenic Society of Medical Biochemistry (regular member)
6. European Society of Clinical Microbiology and Infectious Diseases (regular member)

D. SCIENTIFIC COURSES ORGANIZATION

1. Four series of postgraduate lectures : (α) « *Laboratory analysis of urine* », (b) « *CSF-Diagnostic approaches* », (c) « *Laboratory Hematology* », (d) « *Application of molecular methods in Microbiology* » (President of Organizing Committee)
Educational Institut of Biopathology and Laboratory Medicine in collaboration to Cambridge University Hospitals, Athens 2013
2. First Postgraduate Course « *Antibiotics: action-resistance-therapy* » (Member of the Organizing Committee)
Institut of Biomedical Research and Technology (IBET), Larissa 2007-2008
3. Postgraduate seminar « *Diagnostic Immunology-Histocompatibility* » (Member of the Organizing Committee)
Department of Immunology- *Histocompatibility*, School of Medicine, University of Thessaly, Larissa 2003
4. Course « *Antimicrobial Resistance* » (Member of the Organizing Committee)
Department of Microbiology, School of Medicine, University of Thessaly, Kalambaka 2000

E. PRESIDENT AND COORDINATOR OF ROUND TABLES

I have participated to 18 international national scientific meetings as coordinator of scientific sessions.

9. GRANTS

A. RESTRICTED PROGRAMS (PI)

- Prevalence of HPV in the upper respiratory tract in healthy individuals in Thessaly, Research Committee of University of Thessaly 15.000 €, 2010
- Study of nasal carriage of healthy individuals in Thessaly in order to prevent infections caused by *Staphylococcus aureus* carriers of Panton Valentin leucocidin, Research Committee of University of Thessaly 3.000 €, 2007
- Laboratory detection of *Influentza virus* H1N1v, Hellenic Center for Disease, Control and Prevention 140.000 €, 2010
- European, multi-centre, prospective bi-annual point prevalence study of *Clostridium difficile* infection in hospitalised patients with diarrhea (EUCLID), UK, 30.000 €, 2012

B. UNRESTRICTED GRANDS BY PHARMA (PI)

- Serological study of *Toxoplasma gondii* infections in Thessaly, 6000 €, 2016
- Comparison of serological and molecular methods for the diagnosis of Hepatitis C infection, 14.000 €, 2016
- Evaluation of immunoassays for detection of EBV in healthy individuals in Thessaly, 6000 €, 2015
- Vitamin D status in patients with head and neck cancer, 14.000 €, 2015
- Evaluation of the clinical performance characteristics of the Genspeed VRE assay for the detection of vancomycin resistant enterococci, 5000 €, 2015
- Determination of the clinical performance parameters of the GENSPEED Superbug CR rapid test for the identification of carbapenemase resistance genes present in bacteria from human stool samples and cultured bacterial isolates, 5000 €, 2015
- Evaluation of immunoassays for the quantitative determination of vitamin D in healthy individuals in Thessaly, 20.000 €, 2014
- Vitamin D deficiency in hepatitis C patients, 26.000 €, 2013
- Distribution of serotypes of *Streptococcus pneumoniae* in patients with community-acquired pneumonia during one year study in Greece, 1.399 €, 2013
- Epidemiological study of multiresistant bacteria, 45.000 €, 2009
- Application of molecular methods for infection diagnosis, 8.000 €, 2009

10. PARTICIPATION IN SCIENTIFIC EVENTS AS SPEAKER

A. INTERNATIONAL

1. *Molecular methods for diagnosis of implanted material related infections: myth or reality*
1st International Symposium on Plasma Processing and BioMedical Applications, Milos 2008
2. *Molecular Microbiology in clinical practice*
26th Annual Meeting of the European Bone & Joint infection Society, Corfu 2007
3. *Bacterial Ecosystem of the Upper Extremity*
XII Congress 2007. Federation of European Societies for Surgery of the Hand, Athens 2007

B. NATIONAL

I have participated as speaker to 63 events (33 as Professor)

11. SCIENTIFIC ACTIVITY

A. PUBLICATIONS IN PEER-REVIEWED INTERNATIONAL JOURNALS

201. N.G.C. Vasileiou, D.A. Gougoulis, A.I. Katsafadou, V.S. Mavrogianni, E. **Petinaki**, G.C. Fthenaki Anti-staphylococcal biofilm antibodies in ewes and association with subclinical mastitis. *Small Ruminant Research* 2019; 178: 117-122
200. Vontas A, Hadjicristodoulou C, Krikelis V, **Petinaki** E. The Use of Immunochromatography Technique for Rotavirus Detection: Experience from a Tertiary Care Hospital in Central Greece. *Intervirology*. 2019;62(3-4):164-168
199. Vasileiou NGC, Chatzopoulos DC, Sarrou S, Fragkou IA, Katsafadou AI, Mavrogianni VS, **Petinaki** E, Fthenakis GC. Role of staphylococci in mastitis in sheep. *J Dairy Res*. 2019 Aug;86(3):254-266.
198. Malli E, Tsilipounidaki K, Xitsas S, Pyridou P, Papagiannitsis CC, **Petinaki** E. Implementation of the Rapid Polymyxin Acinetobacter Test to Detect Colistin-Resistant Acinetobacter baumannii. *Microb Drug Resist*. 2019 Aug 12. doi: 10.1089/mdr.2019.0221.
197. Vasileiou NGC, Chatzopoulos DC, Cripps PJ, Ioannidi KS, Gougoulis DA, Chouzouris TM, Lianou DT, Gonzalez-Valerio TC, Vallverdu RG, Argyros S, Cesio M, Font I, Mavrogianni VS, **Petinaki** E, Fthenakis GC. Evaluation of efficacy of a biofilm-embedded bacteria-based vaccine against staphylococcal mastitis in sheep-A randomized, placebo-controlled field study. *J Dairy Sci*. 2019 J Dairy Sci. 2019 Oct;102(10):9328-9344
196. Vasileiou NGC, Mavrogianni VS, **Petinaki** E, Fthenakis GC. Predisposing factors for bacterial mastitis in ewes. *Reprod Domest Anim*. 2019 Jul 30. doi: 10.1111/rda.13541
195. Papagiannitsis CC, Bitar I, Malli E, Tsilipounidaki K, Hrabak J, **Petinaki** E. IncC bla_{KPC-2}-positive plasmid characterized from ST648 Escherichia coli. *J Glob Antimicrob Resist*. May 8;19:73-77.
194. Drougka E, Foka A, Giormezis N, Sergelidis D, Militopoulou M, Jelastopoulou E, Komodoros D, Sarrou S, Anastassiou E, **Petinaki** E, Spiliopoulou I. Multidrug-resistant enterotoxigenic Staphylococcus aureus lineages isolated from animals, their carcasses, the personnel, and the environment of an abattoir in Greece. *J Food Process Preserv* 2019; e13961
193. Vasileiou NGC, Sarrou S, Papagiannitsis C, Chatzopoulos DC, Malli E, Mavrogianni VS, **Petinaki** E, Fthenakis GC. Antimicrobial Agent susceptibility and Typing of staphylococcal Isolates from subclinical mastitis. *Microb Drug Resist*. 2019 2019 Sep;25(7):1099-1110
192. Papagiannitsis CC, Tsilipounidaki K, Malli E, **Petinaki** E. Detection in Greece of a clinical Enterococcus faecium isolate carrying the novel oxazolidinone resistance gene poxtA. *J Antimicrob Chemother*. 2019 Aug 1;74(8):2461-2462.
191. Tsilipounidaki K, Gerontopoulos A, Papagiannitsis C, **Petinaki** E. First detection of an oprA-positive, linezolid-resistant ST16 Enterococcus faecalis from human in Greece. *New Microbes New Infect*. 2019 Feb 7;29:100515
190. Gkavarela L, Florou Z, Papadimitriou-Olivergeris M, Kontos F, Foka A, Vasdeki A, Kolonitsiou F, Charokopos N, Karkoulas K, Marangos M, Anastassiou E, Zerva L, Petinaki E, Spiliopoulou I. Characterization of Mycobacterium tuberculosis complex strains: a multicenter retrospective Greek study. *Cohesive Journal of Microbiology and Infectious Disease* ISSN 2578-0190

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189. Skoulakis A, Fountas S, Mantzana-Peteinelli M, Pantelidi K, **Petinaki E**. Prevalence of human papillomavirus and subtype distribution in male partners of women with cervical intraepithelial neoplasia (CIN): a systematic review. *BMC Infect Dis*. 2019 Feb 26;19(1):192
188. Galani I, Nafplioti K, Adamou P, Karaiskos I, Giamarellou H, Souli M; Study Collaborators. Nationwide epidemiology of carbapenem resistant *Klebsiella pneumoniae* isolates from Greek hospitals, with regards to plazomicin and aminoglycoside resistance. *BMC Infect Dis*. 2019 Feb 15;19(1):167.
187. Vasileiou NGC, Giannakopoulos A, Cripps PJ, Ioannidi KS, Chatzopoulos DC, Gougoulis DA, Billinis C, Mavrogianni VS, **Petinaki E**, Fthenakis GC. Study of potential environmental factors predisposing ewes to subclinical mastitis in Greece. *Comp Immunol Microbiol Infect Dis*. 2019 Feb;62:40-45
186. Kontopoulou K, Iosifidis E, Antoniadou E, Tasioudis P, **Petinaki E**, Malli E, Metallidis S, Vatopoulos A, Malisiovas N. The clinical significance of carbapenem-resistant *Klebsiella pneumoniae* rectal colonization in critically ill patients: from colonization to bloodstream infection. *J Med Microbiol*. 2019 Mar;68(3):326-335
185. Malli E, Gatselis NK, Dalekos GN, **Petinaki E**. Combination of vial culture and broad-range PCR for the diagnosis of spontaneous bacterial peritonitis: experience in a Greek tertiary care hospital. *New Microbes New Infect*. 2018 Dec 18;28:1-5.
184. Karapetsa M, Tsolaki V, Arabatzis M, **Petinaki E**, Velegraki A, Zakynthinos E. Septic shock due to *Candida famata* (*Debaryomyces hansenii*) candidemia in an ICU immunocompetent trauma-patient. *J Infect Public Health*. 2019 Jul - Aug;12(4):594-597
183. Dotis J, Printza N, Stabouli S, Petinaki E, Papaschristou F. Spontaneous peritonitis and bacteria caused by *Streptococcus equinus*: value of 16 srRNA gene sequencing analysis. *Pediatr Dimensions* 2017 doi: 10.15761/P.D.1000139
182. Giannakopoulos A, Vasileiou NGC, Gougoulis DA, Cripps PJ, Ioannidi KS, Chatzopoulos DC, Billinis C, Mavrogianni VS, **Petinaki E**, Fthenakis GC. Use of geographical information system and ecological niche modelling for predicting potential space distribution of subclinical mastitis in ewes. *Vet Microbiol. Vet Microbiol*. 2019 Jan;228:119-128
181. Perifanou D, Zoe D, **Petinaki E**, Konstantinou K, Gourgoulis K. Screening for Latent Tuberculosis Infection in Patients with Autoimmune Diseases Before Initiating TNF- α Inhibitors Therapy. *Mater Sociomed*. 2018 Mar;30(1):32-37.
180. Sarrou S, Malli E, Tsilipounidaki K, Florou Z, Medvecky M, Skoulakis A, Hrabak J, Papagiannitsis CC, **Petinaki E**. MLS_B-Resistant *Staphylococcus aureus* in Central Greece: Rate of Resistance and Molecular Characterization. *Microb Drug Resist*. 2019 May;25(4):543-550
179. Mousailidis GK, Lachanas VA, Vasdeki A, Alexopoulos EI, Kaditis AG, **Petinaki E**, Balatsos N, Bizakis JG, Skoulakis CE. Urine concentrations changes of cysteinyl leukotrienes in non-obese children with obstructive sleep apnea undergoing adenotonsillectomy. *Int J Pediatr Otorhinolaryngol*. 2018 Dec; 115:149-152.
178. Vasileiou NGC, Chatzopoulos DC, Gougoulis DA, Sarrou S, Katsafadou AI, Spyrou V, Mavrogianni VS, **Petinaki E**, Fthenakis GC. Slime-producing staphylococci as causal agents of subclinical mastitis in sheep. *Vet Microbiol*. 2018 Oct;224:93-99.
177. Chatedaki C, Voulgaridi I, Kachrimanidou M, Hrabak J, Papagiannitsis CC, **Petinaki E**. Antimicrobial susceptibility and mechanisms of resistance of Greek *Clostridium difficile* clinical isolates. *J Glob Antimicrob Resist*. 2019 Mar;16:53-58
176. Malli E, Florou Z, Tsilipounidaki K, Voulgaridi I, Stefos A, Xitsas S, Papagiannitsis CC, **Petinaki E**. Evaluation of rapid polymyxin NP test to detect colistin-resistant *Klebsiella pneumoniae* isolated in a tertiary Greek hospital. *J Microbiol Methods*. 2018 Oct;153:35-39.
175. Galani I, Karaiskos I, Karantani I, Papoutsaki V, Maraki S, Papaioannou V, Kazila P, Tsorlini H, Charalampaki N, Toutouza M, Vagiakou H, Pappas K, Kyratsa A, Kontopoulou K, Legga O, **Petinaki E**, Papadogeorgaki H, Chinou E, Souli M, Giamarellou H, On Behalf Of The Study Collaborators. Epidemiology and resistance phenotypes of carbapenemase-producing *Klebsiella pneumoniae* in Greece, 2014 to 2016. *Euro Surveill*. 2018 Aug;23(31). doi: 10.2807/1560-791
174. Vasileiou NG, Gougoulis DA, Riggio V, Ioannidi KS, Chatzopoulos DC, Mavrogianni VS, **Petinaki E**, Fthenakis GC. Association of subclinical mastitis prevalence with sheep breeds in Greece. *J Dairy Res*. 2018 Jun 21:1-4.
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 59. *Resistance mechanisms of isoniazid and rifampicin-resistant Mycobacterium tuberculosis isolates from the island of Crete, Greece.* GITTI Z, NEONAKIS I, BARITAKI M, KOURBETI I, **PETINAKI E**, KONTOS F, DILINTAS A, KATRINAKI M, KANAKI S, BAZIGOS S, KRAMBOVITIS E, SPANDIDOS D. 28th Annual congress of the European Society of Mycobacteriology, Athens 2007
 58. *Clinical manifestations of tuberculosis in Central Greece.* PAPALA M, GEROGIANNI I, GOURGOULIANIS K, **PETINAKI E**. 28th Annual congress of the European Society of Mycobacteriology, Athens 2007
 57. *High prevalence of community acquired (CA) staphylococci carrying Panton-Valentine leucidin (PVL) gene in upper extremity infections.* POULTSIDES LA, RIGOPOULOS N, VARITIMIDIS S, DAILIANA Z, **PETINAKI E**, MALIZOS KN. 12th Congress of Federation of European Societies for Surgery of the Hand, Athens 2007
 56. *Prevalence of ica-operon among coagulase-negative staphylococci (CoNS) isolated from orthopaedic patients. Reduced expression of icaA and icaC genes influence the biofilm production.* POULTSIDES LA, **PETINAKI E**, MALIZOS KN. 8th EFORT Congress, Florence 2007
 55. *Late haematogenous infection by a community-acquired methicillin resistance Staphylococcus aureus (MRSA) strain in an experimental model of implant-related infection (IRI).* POULTSIDES LA, PAPATHEODOROU L, KARACHALIOS T, **PETINAKI E**, KHALDI L, MALIZOS KN. 8th Effort Congress, Florence 2007
 54. *Antimicrobial activity of tigecycline and daptomycin against Gram-positive cocci: a multicentre study in Greek hospitals.* KOLONITSIOU F, PRATTI A, SPILIOPOULOU I, KARANIKA M, ALEXIOU-DANIEL S, BAKOLA D, VERGI M, OECONOMOU M, KOUTSIA-KAROUZOU C, MALAMOU-LADA H, ZERVA L, **PETINAKI E**. 17th European Congress of Clinical Microbiology and Infectious Diseases/ 25th International Congress of Chemotherapy, Munchen 2007
 53. *First nine cases of Mycobacterium lentiflavum detection in Greece.* NEONAKIS I, GITTI Z, KOURBETI I, MICHELAKI H, **PETINAKI E**, CHRISTIDOU A, BARITAKI M, NYKTARI E, DILINTAS A, POTAMIANAKIS D, KRAMBOVITIS E, SPANDIDOS D. 28th Annual congress of the European Society of Mycobacteriology, Athens 2007
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 51. *Phenotypic and genotyping aminoglycoside resistance in staphylococci isolated in Greek hospitals*. SPILIOPOULOU I, KLAPSA D, MORAVA M, FOKA A, CHINI V, PRATTI A, ALEXIOU-DANIEL S, KOUTSIA-KAROUZOU C, **PETINAKI E**. 12th International Symposium on Staphylococci and Staphylococcal Infections, Maastricht 2006
 50. *Evaluation of genotyping MTBC assay in a university hospital in Greece*. NEONAKIS I, GITTI Z, BARITAKI M, FANTI G, **PETINAKI E**, KONTOS F, ANDROULAKIS N, CHRISTIDOU A, DILINTAS A, TSELENTIS Y. 27th Annual congress of the European Society of Mycobacteriology, London 2006
 49. *An unusual phenotype of Enterococcus faecalis in Greece expressing low-level resistance to clindamycin and dalfopristin but susceptibility to quinupristin-dalfopristin*. MANIATI M, KONTOS F, LIAKOS P, **PETINAKI E**, SPILIOPOULOU I, MANIATIS A. 16th European Congress of Clinical Microbiology and Infectious Diseases, Nice 2006
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 46. *Phenotypes and genotypes of slime positive - methicillin resistant Staphylococcus epidermidis clinical isolates*. FOKA A, CHINI V, **PETINAKI E**, KOLONITSIOU F, ANASTASSIOU ED, DIMITRACOPOULOS G, SPILIOPOULOU I. 16th European Congress of Clinical Microbiology and Infectious Diseases, Nice 2006
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 44. *High prevalence of community acquired staphylococci carrying PVL gene in upper extremity infections*. RIGOPOULOS R, POULTSIDES LA, DAILIANA Z, **PETINAKI E**, MALIZOS KN. AAOS Meeting, Chicago 2006
 43. *Prevalence of the internalisation-associated prtF1 gene in a bacterial population of Streptococcus pyogenes isolated from patients with acute pharyngotonsillitis in Greece before and after antibiotic therapy*. MANIATI M, SKOULAKIS C, BERSOS Z, **PETINAKI E**, MANIATIS AN. 15th European Congress of Clinical Microbiology and Infectious Diseases, Copenhagen 2005
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 40. *Late haematogenous infection with MRSA strains carrying Panton-Valentine Leucocidin (PVL) and ica A and D genes in an experimental model of implant-related infection (IRI)*. POULTSIDES LA, PAPTAEODOROU L, KARACHALIOS T, **PETINAKI E**, MANIATIS A, KHALDI L, MALIZOS KN. 24th Annual Meeting of European Bone & Joint Infection Society, Ljubljana 2005
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 37. *Emergence of Enterococcus faecium clinical isolates resistant to quinupristin/dalfopristin.* KOLONITSIOU F, **PETINAKI E**, MANIATI M, DIMITRAKOPOULOS G, SPILIOPOULOU I. 14th European Congress of Clinical Microbiology and Infectious Diseases, Prague 2004
 36. *Mupirocin resistance in staphylococci is related to certain clonal types.* SPILIOPOULOU I, **PETINAKI E**, MANIATI M, KONTOS F, MANIATIS AN. 6th International Meeting on Microbial Epidemiological Markers, Les Diablerets 2003
 35. *Glycopeptide-resistant staphylococci in Greece.* MANIATI M, **PETINAKI E**, KONTOS F, PRATTI A, PETROPOULOU-MILONA D, SPALIARA L, GANTERIS G, ECONOMOU M, KAIRIS D, BERSOS Z, KOUTSIA-CAROUZOU C, MALAMOU-LADA H, MANIATIS AN. 13th European Congress of Clinical Microbiology and Infectious Diseases, Glasgow 2003
 34. *High prevalence of mupirocin-resistance among coagulase- negative staphylococci in Greece* MANIATI M, KONTOS F, SPILIOPOULOU I, PRATTI A, PETROPOULOU-MILONA D, BERSOS Z, KOUTSORINAKI S, **PETINAKI E**, MALAMOU-LADA H, MANIATIS AN. 13th European Congress of Clinical Microbiology and Infectious Diseases, Glasgow 2003
 33. *Rapid identification of mycobacterial isolates by PCR- Restriction FragmentLength Polymorphism analysis (PCR-RFLP) of rpoB gene.* KONTOS F, **PETINAKI E**, NICOLAOU R, GITTI Z, ANAGNOSTOU S, MANIATI M, COSTOPOULOS C, TSELENTIS I, MANIATIS AN. 13th European Congress of Clinical Microbiology and Infectious Diseases, Glasgow 2003
 32. *Correlation between the macrolide-resistance phenotypes and genotypes in methicillin-resistant Staphylococcus aureus isolates from two Greek University Hospitals.* SPILIOPOULOU I, **PETINAKI E**, PAPANDREOU P, DIMITRAKOPOULOS G. 13th European Congress of Clinical Microbiology and Infectious Diseases, Glasgow 2003
 31. *Controlling the prevalence of methicillin-resistant Staphylococcus aureus isolates in a new orthopaedic department.* DAILIANA Z, **PETINAKI E**, KONTOS F, MANIATIS AN, MALIZOS KN. 6th Congress of the European federation of national Associations of Orthopaedics and Traumatology, Helsinki 2003
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 29. *Rapid identification of Streptococcus pyogenes by use of a new commercial immunocard assay.* PRATTI A, SKOULAKIS C, **PETINAKI E**, KONTOS F, KOUTROUBELI A, MANIATIS AN. 12th European Congress of Clinical Microbiology and Infectious Diseases, Milan 2002
 28. *Combined use of Bactec MGIT 960 system and a PCR assay for the detection and identification of Mycobacterium tuberculosis from clinical specimens.* KONTOS F, **PETINAKI E**, GKITI Z, KOSTOPOULOS C, ANAGNOSTOU S, TSELENTIS Y, MANIATIS AN. 12th European Congress of Clinical Microbiology and Infectious Diseases, Milan 2002
 27. *Emergence of multiple clones of erythromycin and vancomycin resistant Enterococcus faecium isolates in a Greek hospital.* POURNARAS S, KANELLOPOULOU M, KONTOS F, **PETINAKI E**, DIMITROULIA E, PAPAFRANGAS E, TSAKRIS A, MANIATIS AN. 2nd Balkan Conference of Microbiology, Thessaloniki 2001
 26. *Rapid identification of methicillin resistant S. aureus isolates.* **PETINAKI E**, KONTOS F, SPILIOPOULOU I, DIMITRAKOPOULOS G, MANIATIS AN. 2nd Balkan Conference of Microbiology, Thessaloniki 2001
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 23. *Low affinity of PBP3 is responsible for the expression of borderline methicillin resistance in a Staphylococcus epidermidis clinical strain.* **PETINAKI E**, DIMITRACOPOULOS G, SPILIOPOULOU I. 10th European Congress of Clinical Microbiology and Infectious Diseases, Stockholm 2000
 22. *Resistant phenotypes to beta-lactam antibiotics of Escherichia coli in two different parts of Greece (rural and industrial).* **PETINAKI E**, HATZI F, HATZAKI D, PAPAGEORGIOU I, TZOUVELEKIS L, MANIATIS AN. 10th European Congress of Clinical Microbiology and Infectious Diseases, Stockholm 2000
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 19. *Identification of mecA-positive methicillin resistant S. aureus strains by a PBP2a – latex agglutination test.* **PETINAKI E**, MARAKI S, GEORGILADAKIS A, , MIRIAGOU V, KONTOS F, MANIATI M, TSELENTIS Y, A. MANIATIS AN. 11th European Congress of Clinical Microbiology and Infectious Diseases, Istanbul 2000
 18. *Methicillin-resistant Staphylococcus strains in the region of Magnesia.* VLAHAKI E, KRIKOU D, KOURAKI K, **PETINAKI E**, MANIATIS AN. First Balkan Conference of Microbiology, Plovdiv 1999
 17. *Resistance to carbapenems of Pseudomonas aeruginosa in the region of Magnesia.* VLAHAKI E, KRIKOU D, KOURAKI K, **PETINAKI E**, MANIATIS AN. First Balkan Conference of Microbiology, Plovdiv 1999
 16. *Etiology of chronic prostatitis in infertile men: use of lower urinary tract localization cultures.* MANIATIS AN, MANANAS A, KANZANO M, **PETINAKI E**. First Balkan Conference of Microbiology, Plovdiv 1999
 15. *Study of immunity in children with recurrent otitis media.* **PETINAKI E**, SKOULAKIS C, PAPADAKIS C, HELIDONIS E, MANIATIS AN. First Balkan Conference of Microbiology, Plovdiv 1999
 14. *Study of the borderline methicillin resistance in Staphylococcus aureus clinical strains.* **PETINAKI E**, MANIATIS A. First Balkan Conference of Microbiology Microbiology, Plovdiv 1999
 13. *Investigation of carbapenem resistance in Pseudomonas aeruginosa.* POURNARAS S, MANIATIS AN, **PETINAKI E**, KOUTSIA-CAROZOU C, TSAKRIS A, DOUBOYAS J. First Balkan Conference of Microbiology, Plovdiv 1999
 12. *Small Vessel Vasculitis (SVV) with renal involvement : incidence of clinical syndromes and outcome in the island of Crete.* DAPHNIS E, ZOGRAFAKIS E, IOANNIDOU D, **PETEINAKI E**, SOTSIU F, EMMANOUEL DS. International Symposium, Vasculitis-Aims of Therapy, Cambridge 1999
 11. *Subpopulations of lymphocytes in the peripheral blood of Greek patients with rheumatoid arthritis.* KRITIKOS H, **PETINAKI E**, CASTANAS E. XVI European League Against Rheumatism Congress, Glaskow 1999
 10. *Anticardiolipin and anti-beta 2-glycoprotein I antibodies in patients with autoimmune diseases.* KOUTROUBAKIS I, KRITIKOS H, **PETINAKI E**, ANAGNOSTOPOULOU E, MOUZAS I, KOUROUMALIS E. Panamerican Congress of Rheumatology, 1998
 9. *Anticardiolipin and anti-beta 2-glycoprotein I antibodies in patient with inflammatory bowel disease.* KOUTROUBAKIS I, **PETINAKI E**, ANAGNOSTOPOULOU E, KRITIKOS H, MOUZAS I, KOUROUMALIS E, MANOUSOS O. Published as abstract on Gastroenterology, 1998
 8. *Pattern of anticardiolipin antibodies in patients with various autoimmune and infectious diseases.* **PETINAKI E**, KOUTROUBAKIS I, KRITIKOS H, KOFTERIDIS D, KOUROUMALIS E, CASTANAS E. EULAR, Geneve, 1998.
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5. *Anticardiolipin and anti-beta 2-glycoproteinI antibodies in patients with inflammatory bowel disease.* KOUTROUBAKIS I, **PETINAKI E**, ANAGNOSTOPOULOU E, KRITIKOS E, MOUZAS I, KOUROUMALIS EA. Manousos ON. Falk Symposium, Brussels 1998
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3. *Study of b-lactam binding affinity to Penicillin- Binding Proteins among Methicillin Resistant coagulase negative Staphylococci.* **PETINAKI E**, SPILIOPOULOU I, DIMITRACOPOULOS G. 8th European Congress of Clinical Microbiology and Infectious Diseases, Lausanne 1997
2. *Distribution of mec genes among methicillin-resistant Staphylococcus isolates by PCR.* SPILIOPOULOU I, **PETINAKI E**, ARVANITI A, DIMITRACOPOULOS G. 8th International Symposium on Staphylococci and Staphylococcal infections, Aix-les-Bains 1996
1. *An immunological study of primary biliary chirosis in Crete.* KOULENTAKI M, **PETINAKI E**, KRITIKOS H, ALEXANDRAKIS G, RAKINZAKI E, KOUROUMALIS E. 4th Mediterranean

ii. National

I have participated to 142 national meetings

E . AWARDS

15. *Microview: Medical Diagnostic Application.* ZAMANIS, MICHPOULOS A, NTAKAKI G, **PETINAKI E**. Two day seminar Innovation in Health Social responsibility of Health Services, Larisa 2014. Award
14. *Molecular epidemiology and mechanisms of resistance to carbapenems of P. aeruginosa strains in a tertiary care Greek hospital.* LIAKOPOULOS A, MAVROIDI A, MIRIAGOU V, SARROU S, KATSIFAS S, KARAGOUNI A, **PETINAKI E**. 6th National Congress of Clinical Microbiology and Nosocomial infections , Athens 2013.
13. *The effect of Panton-Valentin leucocidin (PVL) in the airway smooth muscle.* STAMATIOU R, PETINAKI E, CHATZIEFTHIMIOU A. 20th Panellenic Congress of Thorax Diseases, Athens 2011.
12. *Development of the in-house PCR for Staphylococcus lugdunensis identification.* CHAZIGEORGIOU K, SIAFAKAS N, PETINAKI E, ZERVA L. 35th Panhellenic Medical Congress, Athens 2009. B' Research Prize
11. *Application of the broad range 16S rRNA PCR for the diagnosis of bacterial infections: myth or reality.* MALLI E, **PETINAKI E**. Prize as the best publication to the Journal of Clinical Microbiological Society and Laboratory Diagnosis for 2008.
10. *Role of Haemophilus influenza in the pathogenesis of recurrent pharyngitis.* KLAPSA D, TIGIROGLOU E, MALLI E, MORAVA M, PRATTI A, KARANIKA M, VALAGIANNIS D, SKOULAKIS C, **PETINAKI E**. 3rd National Congress of Clinical Microbiology, Athens 2007.
9. *Presence of ica-operon genes in coagulase-negative staphylococci isolated from a Neonatal Intensive Care Unit.* FOKA A, CHINI V, **PETINAKI E**, KOLONITSIOU F, ANASTASSIOU E, DIMITRACOPOULOS G, SPILIOPOULOU I. Panhellenic Congress of Medical Biopathology, Athens 2006.
8. *Late haematogenous infection with MRSA strains carrying Panton-Valentine Leucocidin (PVL) and ICA A and D genes in an experimental model of implant-related infection (IRI).* POULTSIDES LA,

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- PAPATHEODOROU L, KARACHALIOS TH, **PETINAKI E**, MANIATIS AN, KHALDI L, MALIZOS KN. 61st Panhellenic Congress of Orthopaedics & Trauma, Athens 2005.
7. *Late haematogenous infection with MRSA strains carrying Panton-Valentine Leucocidin (PVL) and ICA A and D genes in an experimental model of implant-related infection (IRI).* POULTSIDES LA, PAPATHEODOROU L, KARACHALIOS TH, **PETINAKI E**, MANIATIS AN, KHALDI L, MALIZOS KN. European Bone and Joint Infection Society 24th Annual Meeting, Ljubjiana 2005.
 6. *High prevalence of MRSA strains carriers of Panton-Valentine Leucocidin gene among orthopaedic patients in Central Greece.* POULTSIDES LA, **PETINAKI E**, KARACHALIOS T, PAPATHEODOROU L, MANIATIS AN, MALIZOS KN. European Bone and Joint Infection Society 24th Annual Meeting, Ljubjiana 2005. 2^o Prize
 5. *Evaluation of E-test on the detection of staphylococci with reduced susceptibility to glycopeptides.* MANIATI M, STYLOPOULOU S, PRATTI A, KOUTSORINAKI S, TOULIA V, TSIKOULI P, KONTOS F, SPALIARA L, MYLONA D, SPILIOPOULOU I, MALAMOU-LADA E, KOUTSIA C, **PETINAKI E**, MANIATIS AN. Panhellenic Congress of Medical Biopathology, Thessaloniki 2004.
 4. *Resistance to macrolides of clinical Streptococcus pyogenes isolates in Thessaly .* **PETINAKI E**, KONTOS F, PRATTI A, KOUTROUBELI A, MANIATIS AN. 20th Congress of Microbiology , Athens 2002.
 3. *Anti-cardiolipin antibodies in στις ιδιοπαθείς φλεγμονώδεις εντεροπάθειες.* KOUTROUBAKIS I, **PETINAKI E**, ANAGNOSTOPOULOU E, KRITIKOS H, MOUZAS I, KOUROUMALIS E, MANOUSSOS O. 17th Panhellenic Congress of Gastroenterology, Hreklion 1997.
 2. *Detection by PCR of the mecA gene and study of its expression in Staphylococcus aureus with borderline resistance to methicillin.* **PETINAKI E**, SKOULIKA E, GEORGILADAKIS A, HARVALOU C, TSELENTIS I. 16th Congress of Microbiology , Patras 1994.
 1. *Molecular basis of resistance of Staphylococcus aureus to beta-lactams.* **PETINAKI E**, HARVALOU C. 16th Congress of Microbiology , Patras 1994.

12. ANALYSIS OF RESEARCH ACTIVITY

My research interest is mainly focused on Clinical Microbiology and specifically on the following five issues:

1. Investigation of the role of microorganisms in infections' pathogenesis
2. Application of diagnostic algorithms for infection diagnosis
3. Prevention of hospital infections
4. Infectious diseases (tuberculosis, CDI, etc.)
5. Molecular epidemiology of antimicrobial resistance

In addition, I have participated in several research protocols on the subject of Laboratory Immunology. All these studies were based to investigate of pathophysiology of auto-antibodies and interleukins in various diseases and to determine the role of TLRs in infectious diseases.

12. PARTICIPATION AS MEMBER OF THE EDITORIAL BOARD

1. BMC Infectious Diseases
2. Journal of Medical Microbiology

13. REVIEWER

Future Microbiology, Journal of Antimicrobial Chemotherapy, Journal of Infection and Chemotherapy, Journal of Thoracic Disease, Journal of Clinical Laboratory Analysis, Clinical Microbiology and Infection, Journal of Medical Microbiology, World Journal of Pediatrics, Microbial Drug Resistance, Antimicrobial Agents and Chemotherapy, Hippokratia, SpringerPlus, Indian Journal of Medical Research, JMM Case reports, Scientific World Journal, British Microbiology Research Journal, Case Reports in Pediatrics, European Journal of Clinical Microbiology and Infectious Diseases, Journal of Global Antimicrobial Resistance, British Journal of Medicine and Molecular Resistance, BMC Infectious Diseases, Folia Microbiologica, International Journal of Environmental Research and Public Health, Progress in Health Sciences, Saudi Medical Journal, BMC Public Health, Recent Patents on Biotechnology