

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Name



**[PROFESSOR ALEMKA MARKOTIĆ  
DIRECTOR, UNIVERSITY HOSPITAL FOR INFECTIOUS DISEASES "DR. FRAN MIHALJEVIĆ", ZAGREB  
FULL PROFESSOR AT THE FACULTY OF MEDICINE, UNIVERSITY OF RIJEKA  
FULL PROFESSOR OF THE CROATIAN CATHOLIC UNIVERSITY  
ASSOCIATE MEMBER OF THE CROATIAN ACADEMY OF SCIENCES AND ARTS]**

Address	<b>[Hruševačka 1, 10000 Zagreb, Croatia]</b>
Telephone	<b>385-91-3645-468</b>
Fax	<b>385-1-2826-148</b>
E-mail	<b>alemka.markotic@gmail.com</b>

Nationality

Croatian

Date of birth

[07.10.1964]

**WORK EXPERIENCE**

• Dates (from – to)	<b>1989-1990</b>
• Name and address of employer	Outpatient Clinic – general practice
• Type of business or sector	Mandatory medical internship
• Occupation or position held	Medical doctor – general practice
• Main activities and responsibilities	Mandatory medical internship
• Dates (from – to)	<b>1990-1993</b>
• Name and address of employer	Department for Microbiology, Medical School, University of Sarajevo, BH
• Type of business or sector	Medical microbiology and parasitology
• Occupation or position held	Research assistant
• Main activities and responsibilities	Work on an international research project on Ribavirin therapy of patients with hemorrhagic fever with renal syndrome with the U.S. Army Medical Research Institute for Infectious Diseases, Maryland, USA Work with students Serological diagnosis of hantavirus
• Dates (from – to)	<b>1992-1994</b>
• Name and address of employer	Healthcare "Caritas" Vrhbosna, Sarajevo, Bosnia and Herzegovina

• Type of business or sector	Charitable medical work
• Occupation or position held	Medical doctor
• Main activities and responsibilities	Work organization "Caritas" war pharmacy and outpatient clinic Working with patients in outpatient clinic, pharmacy Home visits
• Dates (from – to)	<b>1993-1994</b>
• Name and address of employer	Department for Microbiology, Medical School, University of Sarajevo, BH
• Type of business or sector	Medical microbiology and parasitology
• Occupation or position held	Faculty assistant
• Main activities and responsibilities	Exercises for students of medicine, dentistry and pharmacy
• Dates (from – to)	<b>1994</b>
• Name and address of employer	Catholic Relief Services-CRS, Zagreb
• Type of business or sector	Charitable medical work
• Occupation or position held	Medical coordinator
• Main activities and responsibilities	Organization and planning of drug supply for displaced and refugee settlements in Croatia Field epidemiologic studies on prevalence of chronic non-communicable diseases in displaced and refugee settlements in Croatia - health monitoring Reports, coordination with other humanitarian organizations and non-governmental bodies, employees of WHO Regional center
• Dates (from – to)	<b>1994-1995</b>
• Name and address of employer	Viral Vaccines and Interferon Quality Control Unit, Institute of Immunology, Zagreb, Croatia
• Type of business or sector	Viral vaccines and interferon quality control
• Occupation or position held	Associate
• Main activities and responsibilities	Conducting laboratory methods for testing of viral vaccines and leukocyte interferon according to GLP Establishing of new methods Control of vaccines in accordance with national regulations, the WHO, EU Ph., ICH, FDA Keeping complete records related to the control of viral vaccines and interferon
• Dates (from – to)	<b>1995-1999</b>
• Name and address of employer	Viral Vaccines and Interferon Quality Control Unit, Institute of Immunology, Zagreb, Croatia
• Type of business or sector	Viral vaccines and interferon quality control
• Occupation or position held	Head of the Unit
• Main activities and responsibilities	Management of the viral vaccines and interferon quality control Conducting laboratory methods for testing of viral vaccines and leukocyte interferon according to GLP Establishing new methods and stability studies Control of vaccines in accordance with national regulations, the WHO, EU Ph., ICH, FDA Keeping complete records related to the control of viral vaccines and interferon
• Dates (from – to)	<b>1999-2000</b>
• Name and address of employer	Virology Division, Molecular Virology Department, US Army Medical Research Institute for Infectious Diseases, Frederick, Maryland, USA
• Type of business or sector	Postdoctoral research
• Occupation or position held	Postdoc, scholarship National Research Council, National Academy of Science, USA
• Main activities and responsibilities	Postdoctoral research on the role of cytokines and chemokines in the immunopathogenesis of hemorrhagic fever with renal syndrome and hantavirus pulmonary syndrome, own project Theoretical training for work in the Biosafety Level 3 and 4 laboratories (BSL3 and BSL4) Practical training and certification for work in the BSL3 laboratory
• Dates (from – to)	<b>2000-2004</b>
• Name and address of employer	Department of Research and Development Cellular Immunology Unit, Institute of Immunology, Zagreb

• Type of business or sector	Virological and immunological research
• Occupation or position held	Research associate
• Main activities and responsibilities	Research of immunopathogenesis, molecular epidemiology and clinical features of hemorrhagic fever with renal syndrome and other intracellular pathogens Innovative technological solutions in leukocyte interferon production Independent conduction of scientific and technological projects Mentoring junior researchers - PhD students Laboratory diagnosis of hantaviruses
• Dates (from – to)	<b>2004-2005</b>
• Name and address of employer	Department of Research and Development Cellular Immunology Unit, Institute of Immunology, Zagreb
• Type of business or sector	Virological and immunological research
• Occupation or position held	Senior Research Fellow
• Main activities and responsibilities	Research of immunopathogenesis, molecular epidemiology and clinical features of hemorrhagic fever with renal syndrome and other intracellular pathogens Innovative technological solutions in leukocyte interferon production Independent conduction of scientific and technological projects Mentoring junior researchers - PhD students Laboratory diagnosis of hantaviruses
• Dates (from – to)	<b>2005-2010</b>
• Name and address of employer	Research Unit, University Hospital for Infectious Diseases "Dr. Fran Mihaljević, Zagreb
• Type of business or sector	Organization of the research activities in the Hospital
• Occupation or position held	Head
• Main activities and responsibilities	Organization of the research activities in the Hospital Designing and organizing of research projects Mentoring junior researchers - PhD students Laboratory diagnosis of zoonoses Project coordination „Telemedicine in infectious diseases“ with the University of Texas Medical Branch, Galveston, TX, SAD
• Dates (from – to)	<b>Since 2007-</b>
• Name and address of employer	Department of urogenital infections, University hospital for Infectious Diseases "Dr. Fran Mihaljevic ", Zagreb
• Type of business or sector	Clinical work with patients
• Occupation or position held	specialist in infectious diseases
• Main activities and responsibilities	Clinical work with patients Working in a specialist clinic for urogenital activity Temporary 24 h duty in the hospital
• Dates (from – to)	<b>Since 2007-</b>
• Name and address of employer	Department for Research, University Hospital for Infectious Diseases "Dr. Fran Mihaljević, Zagreb
• Type of business or sector	Organization of the research activities in the Hospital
• Occupation or position held	Head
• Main activities and responsibilities	Organization of the research activities in the Hospital Designing and organizing of research projects Mentoring junior researchers - PhD students Laboratory diagnosis of zoonoses Project coordination „Telemedicine in infectious diseases“ with the University of Texas Medical Branch, Galveston, TX, SAD Management of BSL3 laboratory Management of Clinical Immunology Laboratory
• Dates (from – to)	<b>2014-2016</b>
• Name and address of employer	University Hospital for Infectious Diseases "Dr. Fran Mihaljević, Zagreb

• Type of business or sector	Management of the Hospital
• Occupation or position held	Assistant director
• Main activities and responsibilities	Assistance in hospital management
• Dates (from – to)	<b>Since 2016</b>
• Name and address of employer	University Hospital for Infectious Diseases "Dr. Fran Mihaljević, Zagreb
• Type of business or sector	Management of the Hospital
• Occupation or position held	Acting director
• Main activities and responsibilities	Hospital management
• Dates (from – to)	<b>2016-2017</b>
• Name and address of employer	University Hospital for Infectious Diseases "Dr. Fran Mihaljević, Zagreb
• Type of business or sector	Management of the Clinical Department for Urinary Tract Infection
• Occupation or position held	Head
• Main activities and responsibilities	Clinical Department Management, Patients management
• Dates (from – to)	<b>Since 2017</b>
• Name and address of employer	University Hospital for Infectious Diseases "Dr. Fran Mihaljević, Zagreb
• Type of business or sector	Management of the Hospital
• Occupation or position held	Director
• Main activities and responsibilities	Hospital management

## EDUCATION AND TRAINING

• Dates (from – to)	<b>1979 – 1983</b>
• Name and type of organization providing education and training	Gymnasium "Prof. Rizah Odžačkić", Zavidovići, BH
• Principal subjects/occupational skills covered	Secondary school
• Title of qualification awarded	
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>1983 – 18.04.1989</b>
• Name and type of organization providing education and training	Medical Faculty, University of Sarajevo, BH
• Principal subjects/occupational skills covered	School of Medicine
• Title of qualification awarded	Medical doctor
• Level in national classification (if appropriate)	MD
• Dates (from – to)	<b>July 1987</b>
• Name and type of organization providing education and training	Clinic for Cardiac Surgery, Clinic for Abdominal Surgery, Akademia Medyczna, Krakow, Poland
• Principal subjects/occupational skills covered	student internship
• Title of qualification awarded	
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>August 1988</b>
• Name and type of organization providing education and training	Clinic for Internal Medicine, "Rebro" University Hospital of Zagreb, Croatia

• Principal subjects/occupational skills covered	student internship
• Title of qualification awarded	
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>May 1989</b>
• Name and type of organization providing education and training	Institute for Immunobiology and Virology "Torlak", Belgrade, Serbia
• Principal subjects/occupational skills covered	Training in hantavirus laboratory diagnosis
• Title of qualification awarded	
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>1989-1991</b>
• Name and type of organization providing education and training	Medical Faculty, University of Zagreb, Croatia
• Principal subjects/occupational skills covered	Postgraduate Study in Medical Microbiology and Parasitology
• Title of qualification awarded	Master of Medical Sciences (1996)
• Level in national classification (if appropriate)	MSc
• Dates (from – to)	<b>February 2004</b>
• Name and type of organization providing education and training	Department for Microbiology and Immunology, World Health Organization, Geneva, Switzerland
• Principal subjects/occupational skills covered	Temporary advisor
• Title of qualification awarded	
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>October 2004</b>
• Name and type of organization providing education and training	Third Central European International School of Immunology, Košice, Slovačka
• Principal subjects/occupational skills covered	Immunology training
• Title of qualification awarded	
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>June 1996</b>
• Name and type of organization providing education and training	Training Course "Advances in Animal Cell Culture", European Collection of Cell Cultures and Instituto de Biologia Experimental e Tecnologica (IBET), Lisbon, Portugal
• Principal subjects/occupational skills covered	Cell cultures training
• Title of qualification awarded	
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>1993-1997</b>
• Name and type of organization providing education and training	Medical Faculty University of Sarajevo, BH and Institute of Immunology Zagreb, Croatia University Hospitals in Sarajevo and Zagreb
• Principal subjects/occupational skills covered	Specialization, Clinical Immunology

• Title of qualification awarded	Specialist in Clinical Immunology
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>1996-1999</b>
• Name and type of organization providing education and training	Medical Faculty University of Zagreb, Croatia and Institute of Immunology Zagreb, Croatia
• Principal subjects/occupational skills covered	PhD research
• Title of qualification awarded	Doctor of Sciences
• Level in national classification (if appropriate)	PhD
• Dates (from – to)	<b>1999-2000</b>
• Name and type of organization providing education and training	National Research Council, National Academy of Science, US Army Medical Research Institute for Infectious Diseases, Frederick, Maryland, SAD
• Principal subjects/occupational skills covered	Postdoctoral research, training for work in BSL3 laboratory
• Title of qualification awarded	
• Level in national classification (if appropriate)	
• Dates (from – to)	<b>2003-2007</b>
• Name and type of organization providing education and training	Institute of Immunology Zagreb and University Hospital for Infectious Diseases, Zagreb Croatia, University Hospitals in Zagreb
• Principal subjects/occupational skills covered	Specialization in infectious diseases
• Title of qualification awarded	Specialist in infectious diseases
• Level in national classification (if appropriate)	

<b>PERSONAL SKILLS AND COMPETENCIES</b> <i>Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.</i>		
MOTHER TONGUE		[Croatian]
OTHER LANGUAGES		
		[English]
• Reading skills		[excellent]
• Writing skills		[excellent]
• Verbal skills		[excellent]
		[Latin]
• Reading skills		[excellent]
• Writing skills		[good]
• Verbal skills		[basic]
<b>SOCIAL SKILLS AND COMPETENCIES</b> <i>Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.</i>		Thirty years was educated in a multicultural and multinational environment such as Bosnia and Herzegovina, was involved in numerous extracurricular scientific and cultural activities and humanitarian work.
<b>ORGANIZATIONAL SKILLS AND COMPETENCIES</b> <i>Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.</i>		Was head of several research projects, research teams, work related to quality control of vaccines and interferon, head of laboratory and research departments.
<b>TECHNICAL SKILLS AND COMPETENCIES</b> <i>With computers, specific kinds of equipment, machinery, etc.</i>		Basics of working with computers, handling a variety of laboratory equipment, basic statistics
<b>ARTISTIC SKILLS AND COMPETENCIES</b> <i>Music, writing, design, etc.</i>		Primary music school – piano, the organ and mouth harmonica playing, writing, modeling
<b>OTHER SKILLS AND COMPETENCIES</b> <i>Competences not mentioned above.</i>		Survival in wartime ☺
DRIVING LICENCE(S)		Clean driving license, B category
<b>ADDITIONAL INFORMATION</b>		[Include here any other information that may be relevant, for example contact persons, references, etc.]

## ANNEXES

### Books:

#### National:

1. **Markotić A**, LeDuc JW. Bioterrorism and forensic microbiology. In: Primorac D., ed DNA Analysis in Forensic Medicine and the judiciary. Medical Edition 2008<sup>th</sup>
2. **Markotić Alemka**, James W. LeDuc, Jenifer Smith. [Bioterrorism and forensic microbiology]. In: Dragan Primorac, Moses Schanfield, eds. [Forensic DNA analysis]. Školska knjiga d.d., Zagreb, 2016. - Croatian

#### International:

1. **Markotić A** Rabatić S, Gagro A Sabioncello A, Kuzman I, Dekaris D: Immunopathogenesis of hemorrhagic fever with renal syndrome (HFRS) in humans. In: Emergence and Control of Rodent-Borne Viral Diseases (hantaviruses and Arenaviruses). "Les Pensières" Veyrier-du-Lac, Annecy, France, 1999, 125-131.
2. **Markotić A**, Schmaljohn C. Immunoreactions to hantaviruses. In: V. Georgiev ed National Institute of Allergy and Infectious Diseases, NIH. Vol.1 Frontiers in Sciences, Humana Press, Springer Verlag., 2008., 435-444.
3. Turk Nenad; Margaletić Josip, **Markotić Alemka**. Forest Ecosystems and Zoonoses, Wildlife: Destruction, Conservation / Harris, John D., Brown, L. Paul (eds.). Hauppauge, NY, USA: Nova Science Publishers, Inc., 2009. Str. 1-45
4. Ivan-Christian Kurolt; Lidija Cvetko Krajinović; Mirna Vranić-Ladavac; **Alemka Markotić**. Flaviviridae // Medical Microbiology / Selma, Uzunović-Kamberović (eds.). Zenica: Printing Fojnica LLC, 2009. Str. 845-849.
5. Lidija Cvetko Krajinović, John-Christian Kurolt; Mirna Vranic-Ladavac; **Alemka Markotić**. Filoviridae // Medical Microbiology / Selma, Uzunović-Kamberović (eds.). Zenica: Printing Fojnica LLC, 2009. Str. 861-864.
6. **Markotić A**, LeDuc JW, Smith J. Bioterrorism and Forensic Microbiology. In: Primorac D., Schanfield M. eds. Forensic DNA Applications. An Interdisciplinary Perspective. CRC Press, Taylor&Francis Group 2014.

#### Invited lectures-international

1. 1995 Professional Meeting of the Institute of Immunology, Zagreb ("Hemorrhagic Fever with Renal Syndrome").
2. 1995 55. Scientific and Professional Meeting of The Croatian Society of Infectious Diseases, Dubrovnik ("Hantavirus, Hidden Enemy in War")
3. 1996 57. Scientific and Professional Meeting of the Croatian Society of Infectious Diseases. Zadar ("New Efforts in the Production and Application of Viral Vaccines in Children").
4. 1996 58. Scientific and Professional Meeting of the the Croatian Society of Infectious Disea, Zagreb
5. 1997 Seminar on Biological and Toxin Weapon Prevention and Protection. Croatian Military Academy "Petar Zrinski", Zagreb
6. 1998 60. Scientific and Professional Meeting of the Croatian Society of Infectious Disea, Šibenik ("The Importance of Viral Diagnostics")
7. 1998 1. Croatian Congress of Infectologists with International Participation, Dubrovnik ("Ethiology and Immunopatogenesis of hemorrhage fever with kidney syndrome (HVBS) in Croatia")
8. 1998 Fondation Mérieux, International Symposium, "Emergence and Control of Rodent-Borne Viral Diseases (Hantaviruses and Arenaviruses)" (Immunopathogenesis of hemorrhagic fever with renal syndrome (HFRS) in humans).
9. 2001 64. Scientific and Professional Meeting of the Croatian Society of Infectious Disea, Varaždin, Croatia ("Research and Development of Zoonotic Vaccines").
10. 2001 The Fifth International Conference on HFRS, HPS and Hantaviruses, Fondation Mérieux, Les Pensieres, Veyrier-du-Lac, France ("The possible role of cytokines, chemokines and their receptors in the immunopathogenesis of HFRS and HPS")
11. 2001 65th Scientific and Professional Meeting of the Croatian Society of Infectious Disea, Zagreb, Croatia
12. 2002 Symposium - Hemorrhagic fever with renal syndrome in Croatia in 2002 ("Diagnosis of hemorrhage fever with renal syndrome with ELISA test")
13. 2002 Section "Jadran", Croatian Microbiological Society, Rijeka ("Diagnosis of hemorrhage



fever with renal syndrome").

14. 2002 Seminar - Department of Virology, Institute for Medical Microbiology & Hygiene, Universitätsklinikum, Freiburg, Germany ("Immunoreactions to Hantaviruses. Can we link in vivo and in vitro?").
15. 2003 program of permanent medical training - Infections of biomaterials - Faculty of Medicine, University of Osijek ("The specificity of the immune response in biomaterialic infections").
16. 2004 Annual Meeting of the Croatian Immunological Society, Opatija, October 2004 ("The role of mitochondrial factors and extracellular matrix molecules in apoptosis caused by hantaviruses").
17. 2004 Transfusiology, Zagreb, Croatia ("Immune Response to Viral Liver Infections").
18. 2005 INCO MED Thematic Workshops for the definition of Euro-Mediterranean within FP7; MED7 Workshop on Public Health, ISERD's Offices, Tel-Aviv, Israel, 25-26, May, 2005. ("Public health in Croatia in relation to future research cooperation in FP7")
19. 2005 Medical School, University of Nevada, USA ("Immunopathogenesis of Hantaviruses")
20. 2005 Fourth European-American School in Forensic Genetics and Mayo Clinic Course in Advanced Molecular and Cellular Medicine, Dubrovnik, Croatia ("Innate immunity to biothreat agents as a basis for therapy development")
21. 2006 National Institutes of Health / National Institute of Allergy and Infectious Diseases Conference, Opatija, Croatia ("Immunoreactions to Hantaviruses")
22. 2006 5. Croatian Congress on Infectious Diseases with International Participation ("Forensic Microbiology - Importance in Defense of Bioterrorism")
23. 2006 5. Croatian Infectious Congress with International Participation ("Unclear Epidemic of Infectious Diseases and Forensic Epidemiology")
24. 2007 "Increasing US - Croatian Cooperation in ICT, Biotechnology and Pharmaceutical Industry" (October 1 - 4, 2007, Split, Croatia) (Novel Center for Emerging and Re-Emerging Infectious Diseases in Zagreb: The Role of US Collaborators, Alemka Markotić, University Hospital for Infectious Diseases, Zagreb)
25. 2007 23rd Conference of the European Union of Sexual Transmitted Infections (IUSTI) on Sexually Transmitted Infections and HIV / AIDS, Cavtat, October, 2007 (What Challenges a Clinician May Expect from STIs in the Future)
26. 2009 18th Meeting of the European Network for Diagnostics of "Imported" Viral Diseases (ENIVD), May 2009 (Hantaviruses in Croatia)
27. 2010 Columbia University, Medical Center, Center for Infection and Immunity, New York, August 13, ("Zoonoses research in Croatia")
28. 2010 National Institutes for Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA ("Zoonoses research in Croatia and future perspectives for collaboration")
29. 2011 International Symposium on Biosecurity, US National Academy of Sciences, Istanbul, Turkey (Management of dangerous pathogens in Croatia)
30. 2011 3rd Annual International Symposium - Biosecurity and Biosafety: Future Trends and Solutions, Milan, Italy ("Political boundaries, Biothreat and Preparedness")
31. 2012 Institut für Medizinische Mikrobiologie, Universitätsmedizin Göttingen, Georg-August-Universität, Göttingen, Germany ("Zoonoses in Croatia")
32. 2013 National Academy of Sciences, USA, Academy of Sciences and Arts and the Royal Academy UK: "Science Needs for Microbial Forensics: Developing an Initial International Science Roadmap (HAZU, Zagreb), "Clinical and Forensic Approaches to Microbial Identification"
33. 2013 Polish Academy of Sciences: "How to Prevent and Manage Methods to Assess Its Origin: Biosecurity, Surveillance, Forensics" ("Clinical and Forensic Approaches to Microbial Identification- Clinical Diagnostic Practices"), Warsaw, 2013.
34. 2013 Biological Weapons Convention (BWC), Annual BWC Meeting of States Parties in Geneva, UN ("Science Needs for Microbial Forensics: Developing An Initial International Science Roadmap"), Geneva, 2013.
35. 2014 Biological Weapons Convention (BWC), Annual BWC Meeting of States Parties in Geneva, UN ("Science Needs for Microbial Forensics: Developing an Initial International Science Roadmap"), Geneva, 2014.
36. Polish Academy of Sciences. Natural or Deliberate Outbreak - Biosecurity, Surveillance, Forensics; Warsaw 2013
37. UK Royal Society, Polish Academy of Sciences & US National Academy of Sciences. S & T Trends Symposium to Support the BTWC, Warsaw, September, 2015.
38. Meeting of States Parties of the Biological Weapons Convention, Geneva, December 2015 (Representative for the UK Royal Society)
39. AMZH lectures: What should be the strategy of biosecurity and biosafety in the Republic of Croatia in various wars and migration ?, Zagreb 2017
39. US National Academy of Sciences, National Academy of Sciences of Ukraine, Regional Workshop for Eastern Europe and Central Asia Implications of Developments in Science and Technology for the Biological Weapons Convention, September 2017.

### **The editorial board of the journals:**

- Deputy Editor Croatian Journal of Infection 2016-2017  
Editor Croatian Journal of Infection 2017
- Member Editorial ISRN Infectious Diseases 2012-2014.

### **The number and quality of students:**

#### ***Mentoring-defended doctorates and doctorates in progress***

1. Marica Miletić Medved, MD, PhD- 2006 doctoral dissertation, MF, Zagreb - "Zoonoses in Forest Workers of Middle Posavina"
2. Ljiljana Cebalo, MD, PhD - - defended her doctorate in 2007. at MF Zagreb: "Immune responses caused by infection of Hantaan and Andi viruses in MRC-5 and HEK293 cells"
3. Anđelko Vidović, MD, PhD - defended his doctorate in 2010. at MF Zagreb: "Interaction of Immune System and Endocrinological System in Post-Traumatic Stress Disorder"
4. Dragan Ledina, MD, PhD defended his Ph.D. at MF Zagreb under the title "Markers of endothelial dysfunction and chronic kidney changes in Croatian soldiers infected with hantaviruses in the Homeland War"
5. Lidija Cvetko Krajnović, B.Sc., PhD - defended his doctorate in 2014. at PMF Zagreb: "Early Immune Reactions in Mononuclear Peripheral Blood Cells Caused by the Puumala Virus"
6. Ivan-Christian Kurolt, B.Sc., PhD - defended his doctorate in 2014.g. at the PMF Zagreb titled "The Influence of Puumala Virus on the Micro RNA Expression in Human Epithelial Cells"
7. Ante Tadin, B.Sc. -PhD student- PhD theses in progress
8. Petra Svoboda, B.Sc. - PhD theses in progress

#### **Mentoring undergraduate students-Rector's Award**

- Ljiljana Cebalo - 2002
- Mateja Jankovic - 2004

### **Impact on the development of the field / specialty:**

- Establish a serologic and molecular diagnostic of hantaviruses by ELISA test in Croatia
- initiated the first molecular epidemiological studies on hemorrhagic fever with renal syndrome (HFRS)
- demonstrated that two different hantaviruses cause disease in Croatia, and that another circulates among small rodents and that the whole Croatia except coast and islands is endemic area for HFRS
- established one of the world's two published studies that compare the clinical and immunopathogenetic features in patients infected with the viruses Puumala or Dobrava
- showed that hantaviruses, previously considered non-cytopathic viruses can cause cytopathic effect in HEK293 cells
- shown that hantaviruses can directly cause macrophage differentiation towards mature dendritic cells
- With junior researchers established molecular diagnostic tools for communicable diseases (Dengue, tick meningoencephalitis etc.) and molecularly characterized the first indigenous dengue virus in Croatia
- together with the young scientist, shows the importance of multiple infections of the rodents with variety of zoonotic agents
- establishing the first Croatian Biosafety level 3 laboratory, listed Croatia in a group of European and world countries that have adequate infrastructure for the diagnosis and investigation of dangerous, deadly pathogens

### **Establishment of departments, institutes, referral centers, societies:**

The Center for emerging and re-emergent infectious diseases, University Hospital for Infectious Diseases "Dr. Fran Mihaljević", Zagreb (2007)  
Section of Immunology of infectious diseases, the Croatian Society for Infectious Diseases (2010)  
The First Croatian Biosafety Laboratory 3, University Hospital for Infectious Diseases "Dr. Fran

Mihaljević, Zagreb (2010)

Founder and the first president of the Croatian Society of Biosafety and Biosecurity (2014)

### **Important books in Croatian:**

1. Markotić A. Filoviridae. Mlinarić Galinović G, Ramljak Šešo M eds, In: Medical Microbiology and Parasitology II (special). Textbook for high school students, 2003, p.
2. Markotić A. Togaviridae. Mlinarić Galinović G, Ramljak Šešo M eds, In: Medical Microbiology and Parasitology II (special). Textbook for high school students, 2003, p.
3. Markotić A. Bunyaviridae. Mlinarić Galinović G, Ramljak Šešo M eds, In: Medical Microbiology and Parasitology II (special). Textbook for high school students, 2003, p.
4. Kuzman I, A. Markotić. Bunyaviruses, hemorrhagic fever, hantavirus pulmonary syndrome, and California encephalitis. Infectious diseases and their causes, Zagreb, Profile 2006th
5. Kuzman I, A. Markotić. Ebola and Marburg hemorrhagic fever. Infectious diseases and their causes, Zagreb, Profile 2006th
6. Kuzman I, Markotić A, Beus I. Lassa and the South American hemorrhagic fevers. Infectious diseases and their causes, Zagreb, Profile 2006th

### **Organization of international and national conferences**

#### ***National:***

1. Professional meeting of the Institute of Immunology, Zagreb, 1995.
2. 55th Scientific and Professional Meeting of The Croatian Society for Infectious Diseases, Dubrovnik, 1995
3. 57th Scientific and Professional Meeting of The Croatian Society for Infectious Diseases. Zadar, 1996.g.
4. 58th Scientific and Professional Meeting of The Croatian Society for Infectious Diseases, Zagreb, 1996.
5. 60th Scientific and Professional Meeting of The Croatian Society for Infectious Diseases, Šibenik, 1988.
6. 6th Croatian Congress of Infectologists with International Participation, Dubrovnik, 1998
7. 64th Scientific and Professional Meeting of The Croatian Society for Infectious Diseases, Varaždin, Croatia, 2001.
8. 65th Scientific and Professional Meeting of The Croatian Society for Infectious Diseases, Zagreb, Croatia, 2001.
9. Symposium - Hemorrhagic fever with kidney syndrome in Croatia in 2002, 2002
10. 10th Croatian Infectious Congress with International Participation, 2006
11. 6th Croatian Congress on Infectious Diseases with International Participation, Šibenik, 2009
12. Days of Prof. Fran Mihaljević - 76th Scientific and Professional Symposium "Influence of Globalization on Infectious Diseases", Zagreb, 2009
13. 77th Scientific and Professional Symposium on Infectious Diseases with International Participation "Infection in Surgical, Neurological and Immune Compromised Patients and Role and Significance of Infectologist in County Hospital", Koprivnica, 2010
14. Symposium: "Practical Knowledge against Dengue Virus", University Hospital for Infectious Diseases "Dr. Fran Mihaljević", Zagreb, 2011.g.
15. Symposium: "Therapeutics as Immunomodulators", Hotel Dubrovnik, Zagreb, 2011
16. 79. Scientific-Professional Symposium "Novelties in Infectology", Trogir, hotel resort "Medena", 2011.g.
17. Symposium: "Controversy in Vaccination", University Hospital for Infectious Diseases "Dr. Fran Mihaljević", Zagreb, 2011.g.
18. Symposium: Hemorrhagic fever with renal syndrome - challenge for doctors and scientists, HAZU, 07.11.2012.
19. 2014. Course- "Dangerous Causes of Infectious Diseases-Biosafety and Bio-Protection Measures", University Hospital for Infectious Diseases "Dr. Fran Mihaljević", Zagreb.
20. 2014. Tribina - "Epidemic Ebola - Challenge for Contemporary Medicine", HAZU, Department of Clinical and Transplantation Immunology and Molecular Medicine in Rijeka, Rijeka
- 21st 2014 Symposium - "Ebola Virus and Other Dangerous Causes of Infectious Diseases - Threat of Biosafety in the Modern World", University Hospital for Infectious Diseases "Dr.

Fran Mihaljević ", Zagreb

22. 2016. "Applied genomics in the Republic of Croatia", HAZU, Zagreb.

23. 2016. In the Clinical Center for Infectious Diseases "Dr. Fran Mihaljević" in Zagreb - Round Table entitled "MERS Risk Assessment for Republic of Croatia and Biosafety Measures" organized by the Croatian Society for Biosafety and Biosecurity of the HLZ and the University Hospital for Infectious Diseases "Dr. Fran Mihaljević "

24. 2016. University Hospital for Infectious Diseases "Dr. Fran Mihaljević" in Zagreb - symposium titled "Neglected Tropical Disease", organized by the Croatian Society for Biosafety and Biosecurity of HLZ, Clinical Center for Infectious Diseases "Dr. Fran Mihaljević "and the Office of the World Health Organization in the Republic of Croatia.

25. 2016, Opatija, Croatia - 8th Croatian Congress on Urogenital and Sexually Transmitted Infections with International Participation organized by the Croatian Society for Urogenital and Sexually Transmitted Infections of the HLZ.

26. 2017. Symposium titled "Molecular Genetics - News in Diagnosis and Therapy." The Symposium was held in the organization of the Croatian Academy for Sciences and Arts (HAZU).

27. 2017. - First Croatian Congress on Biosafety and Biosecurity with International Participation organized by the Croatian Society for Biosafety and Biosecurity, Zagreb, Croatia.

28. 2017., Zagreb, Croatia - symposium - Hemorrhagic fever with renal syndrome - introduction to the new epidemic in 2017, organized by the Croatian Society for Biosafety and Biosecurity and the the Croatian Society for Infectious Diseases.

29. 2017, Opatija, Croatia - 9th Croatian Congress on Genital and Sexually Transmitted Infections with International Participation organized by the Croatian Society for Urogenital and Sexually Transmitted Infections of the National Health Organization.

30. 2017., Zagreb, Croatia - 2017 Annual meeting of the Croatian Immunological Society with EFIS on tour organized by the Croatian Immunological Society.

1.

#### International:

National Institutes of Health/National Institute of Allergy and Infectious Diseases Conference, Opatija, Croatia, **2006.g.**

2. Eurolept2012, European meeting of Leptospirosis, Dubrovnik 30.05. do 03.06.**2012.**

3. 3rd Southeast European Conference of Chemotherapy and Infection (SEEC), Dubrovnik, 08-11-11.**2012.**

4. SEE-WHO Symposium on „One Health“, Klinika za infektivne bolesti „Dr. Fran Mihaljević“, Zagreb, lipanj 2013.

5. National Academy of Sciences, USA, Royal Society, UK and Croatian Academy for Sciences and Arts. *Science Needs for Microbial Forensics: Developing an International Roadmap* from 14-16 October **2013**, Zagreb, Croatia.

6. **2015.** 2. Inter-Academy Scientific Symposium „Emerging and reemerging zoonoses of 21. century“, HAZU,SAZU, ANUBiH, Zagreb, Hrvatska.

7. **2016.** - 2. Inter-Academy Scientific Symposium „EMERGING ZOOZOSES“, SAZU, Ljubljana, Slovenia -SAZU, HAZU and ANUBiH

8. **2016.g.**, „Biosafety Course for Southeast European influenza laboratories“ in organization of: The U.S. Centers for Disease Control and Prevention (CDC) i the Association of Public Health Laboratories (APHL) in collaboration with the Southeast European Center for Surveillance and Control of Infectious Diseases (SECID), Croatian Society for Biosafety and Biosecurity and the University Hospital for Infectious diseases "Dr. Fran Mihaljević".

9. **2017.** - 3. Inter-Academy Scientific Symposium „EMERGING AND RE-EMERGING ZOOZOSES OF 21ST CENTURY“, ANUBiH, Sarajevo, Bosnia and Hercegovina-ANUBiH, HAZU i SAZU.

## **Awards and Recognition**

### **National:**

1. Annual Award for Chemistry (Interdisciplinary Science), 1982, "Science movement to Youth" Bosnia and Herzegovina.
2. Annual Award for Chemistry (Interdisciplinary Science), 1983, ""Science movement to Youth", Bosnia and Herzegovina.
3. Annual Award for Medicine (Interdisciplinary Science), 1985, ""Science movement to Youth", Bosnia and Herzegovina.
4. Annual National Science Award - Award for Young Scientists, 1998 - Croatian Parliament and the Croatian Ministry of Science.
5. The award of the Croatian Academy of Arts and Sciences for Medicine in 2001; Croatian Academy of Sciences and Arts, 2002.
6. The prize for the poster ("Hantaviruses induce cytokine and chemokine production and differentiation of human monocytes"), 2002, Croatian Immunological Society, Annual Meeting in 2002.
7. Annual National Science Award - Award for Biomedicine, 2007, the Croatian Parliament and the Croatian Ministry of Science, Education and Sports.

### **International:**

1. The prize for the poster ("Problems in the diagnosis of hemorrhagic fever with renal syndrome in Bosnia and Herzegovina"), 1994, 3 Central European immunological school in Kosice, Slovakia.
2. European Award for Young Scientists, 1997, European Society of Clinical Microbiology and Infectious Diseases and the 8th European Congress of Clinical Microbiology and Infectious Diseases.
3. Research Fellowship for the excellent research in the fields of clinical microbiology and infectious diseases, 1999, the European Society of Clinical Microbiology and Infectious Diseases.
4. National Research Council Award, 1999, National Academy of Sciences, Washington, USA.
5. Joel M. Dalrymple Memorial Award in 2000, the American Society for Virology, USA.
6. USAMRIID's coin for outstanding contribution to the study of hantaviruses at USAMRIID in 2000, the U.S. Army Medical Research Institute for Infectious Diseases, Frederick, Maryland, USA.
7. Scholarship Award, 2002, XIIth International Congress of Virology, Paris, France.
8. Travel Award, 2002, American Society for Tropical Medicine and Hygiene.
9. Team Award, 2005, American Society of Microbiology.

### **Principal investigator in national and international projects:**

#### **National:**

1. Technology-research and development project: "3-D cell technology in the production of interferon and viral proteins," the Croatian Ministry of Science and Technology (TP-01/0021-06), 2001-2003.
2. Research project, "The immune response during infection with intracellular pathogens" (0021005), "the Croatian Ministry of Science," 2002-2005.
3. Co-PI of the research project "Forest ecosystems as natural foci of zoonoses," Croatian Forests, 2003-2010.
4. Research project: "The immune response to hantaviruses and leptospires", Croatian Ministry of Science, Education and Sports 2006-2013.
5. Research Programme "Hantavirus and Leptospira", Croatian Ministry of Science, Education and Sports, 2006-2008.
6. Technological, Development and Research Project- "Nucleus" (J-29/07) "Center for emerging and re-emerging infectious diseases," the Croatian Ministry of Science, Education and Sports, 2007-2010.
7. 2014-2018 – P.I. „Innate immunity to hantaviruses“, Croatian Sciences Foundation
8. 2014-2018 – Work package leader and coordinator for the University Hospital for Infectious Diseases „Dr. Fran Mihaljević“ at the project „Center of Excellence for Viral Vaccines and Immunology“

## International

1. Postdoctoral research project "The role of cytokines and chemokines in human cells infected with hantaviruses," (project supervisor: Prof. Dr. Connie Schmaljohn C., postdoctoral research at the U.S. Army Medical Research Institute for Infectious Diseases, Frederick, Maryland, USA), the National Research Council, National Academy of Sciences, USA.
2. ISID Small Grants: "Mechanisms of apoptosis induced by hantaviruses", International Society of Infectious Diseases, U.S., 2003-2004.
3. Co-leader (Croatian partner) Telemedicine Project in infectious diseases at the University of Texas Medical Branch, Galveston, USA from 2007
4. National coordinator and leader of FP7 part of the project for the University Hospital for Infectious Diseases "Dr. Fran Mihaljević": **Multi-centre EuROpean study of MAJOR Infectious Disease Syndromes (MERMAIDS) Arboviral compatible febrile illness**, EC Framework 7 Project called "Platform for European Preparedness Against (Re)emerging Epidemics" ("PREPARE"), **University of Oxford, UK. – 2016-2018.**

## Other activities (membership, organizing committees, established organizations and laboratories):

- 1995 - Present Member of the Croatian Immunological Society
- From 2007-present, member of the Chamber, the Croatian Immunological Society
- 1995-present Member of the Croatian Society of Allergology and Clinical Immunology
- 1997-present Member of the European Society of Clinical Microbiology and Infectious Diseases
- 1998 - Present Member of The Croatian Society for Infectious Diseases
- 2007-2011. – Treasurer, The Croatian Society for Infectious Diseases.
- 2004-2008 - Member of the Croatian National Council for Science
- 2005-2008 Vice President of the Croatian Research Council for Biomedicine and Health
- 2005-2008 - member of the Board of the National Science Foundation.
- 2007 - Member of the Investment Committee Business Innovation Agency of Republic of Croatia
- 2008 - Reviewer for projects NIAID / NIH, USA
- 2009 - evaluator for EU FP6 projects
- 2009 - Reviewer for projects NIAID / NIH, USA
- 2009 – Organization and lecturing at the course on "Biosecurity and Biosafety" for the Chinese ministry of agriculture in collaboration with the EU Commission, Beijing, China
- since 2009 - Croatian delegate at the ERAC High Level Group for Joint Programming
- Since 2010 - Founder and president of the Section of Immunology of infectious diseases, the Croatian Society for Infectious Diseases
- 2011 - Reviewer for projects NIAID / NIH, USA
- 2012- associate member, Croatian Academy of Sciences and Arts
- Since 2013 - Member of the Council for Genomics - Croatian Academy of Sciences and Arts
- 2013-2014 Member of the National Research Committee (NRC) on Science Needs for Microbial Forensics: Developing an Initial International Roadmap at the National Academy of Sciences, USA
- Since 2014 - the founder and the first president of the Croatian Society of Biosafety and Biosecurity
- 2016 Member of the European Society of Microbiology and Infectious Diseases (ESCMID) Research and Projects Expert Panel
- Since 2016 Member of the European Society of Microbiology and Infectious Diseases (ESCMID) Study Group for Forensic and Postmortem Microbiology
- Since 2017 Member of the European Society of Microbiology and Infectious Diseases (ESCMID) Emerging Infections Task Force Expert Panel
- 2017 Member of the European Society of Microbiology and Infectious Diseases (ESCMID) Research and Projects Expert Panel
- 2017th to 2018th - Member, Committee on Regional Workshops on Science and Technology Issues for Biological Weapons Convention, Board of Life Sciences, The National Academies, USA
- 2018 - Member of the National Research Committee (NRC) on Governance of Dual Use Research in Life Sciences: Advancing Global Consensus on Research Oversight, The National Academies, USA.

## Educational Activities

- 2001 – present, lecturer, Postgraduate study - Medicine, School of Medicine, University of Zagreb, the elective course, "Mechanisms of allergic reaction"
- 2002-present, lecturer, Postgraduate study - Medicine, School of Medicine, University of Zagreb: elective course - Pathogenesis of Bacterial and viral infections
- 2002-present -lecturer - Postgraduate studies in Biomedicine and Health, Faculty of Medicine, University of Osijek, elective-Antimicrobials
- 2002-present – lecturer, -graduate studies at the Faculty of Food Technology, University of Zagreb, Immunology course
- 2003-present - Head of the elective course-Infections caused by hantaviruses, postgraduate research study- Medicine, School of Medicine, University of Rijeka
- Since 2006 – lecturer, Department of Infectious Diseases, Faculty of Medicine in Zagreb, course for students in English, "Infectious Diseases and Tropical Medicine with Clinical Microbiology and Parasitology"
- Since 2010 - Head of the elective course "Bioterrorism" The forensics study, University of Split
- From 2012 - Head of the course "Immunity and allergy " a university postgraduate degree in epidemiology, School of Medicine, Zagreb, University of Zagreb
- From 2012 - Head of the course "Immunology of infectious diseases," the University postgraduate studies in infectious diseases, School of Medicine, Zagreb, University of Zagreb
- Since 2016 an external associate, Faculty for Nurses, Croatian Catholic University
- since 2017 a full professor at the Faculty for Nurses, Croatian Catholic University

## Reviewer - projects, journals, books

### Projects

- EU FP6 projects for the EU Commission (26)
- Projects of the Croatian Ministry of Science, Education and Sports (17)
- Projects of the Croatian Ministry of Health and Social Welfare (1)
- Projects of the Bulgarian Ministry of Science - "National Program on strengthening and upgrading the research capacity of Bulgaria" (5)
- National Institutes of Health / National Institutes of Allergy and Infectious Diseases, USA (NIAID / NIH) (76)

### Scientific Journals

- Journal of Medical Virology
- Emerging Infectious Diseases
- Neuroimmunology
- Vector Borne and Zoonotic Diseases
- Croatian Medical Journal
- Acta Medica Croatica
- Croatian Journal of Infection
- Medical Science Monitor International
- Plos One
- Clinical Microbiology and Infection

### Books

1. Hukić M, Šibalić S. [Viral hemorrhagic fevers]. DOO «OFF-SET», Tuzla, Bosnia and Herzegovina, 2003.g.
2. Hukić M et al. ["Prevention and Control of Infections in Health Institutions"], "TDP" Sarajevo, 2010
3. Benčić D, Batinić D, Malenica B. ["Immunology and Immune Lung Diseases"], Graphis, Zagreb, 2011.
4. Cvetnić Ž. ["Bacterial and Fungal Zoonoses"], Medicinska Naklada, 2013.

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### Papers that are referenced in databases worldwide (CC / SCI)

1. **Markotić A**, Šarčević A, Hlača D, Barać V, LeDuc JW. Rats and hantavirus disease.

2. **Markotić A**, Šarčević A, Hlača D, LeDuc JW. Problems in the diagnosis of hemorrhagic fever with renal syndrome (HFRS) encountered in Bosnia and Herzegovina. XVI European Congress of Allergology and Clinical Immunology ECACI'95. **Proceedings II. Monduzzi editore S.p.A**, Bologna-Italy, 1995.<sup>1</sup>
3. **Markotić A**, LeDuc JW, Hlača D, Rabatić S, Šarčević A, Dašić G, Gagro A, Kuzman I, Barač V, Avšič-Županc T, Beus I, Dekaris D. Hantaviruses are a likely threat to NATO forces in Bosnia and Herzegovina and Croatia. **Nature Med 1996;2:269-270. (IF 30,71)**
4. **Markotić A**. *Oida hoti, ouden oida* about the hantaviruses. **Period Biol 1996; 98:151-154.**
5. **Markotić A**. Human-to-human transmission of hantaviruses. **The Lancet 1997; 350: 596. (IF 18,5)**
6. **Markotić A**, Dašić G, Gagro A, Sabioncello A, Rabatić S, Kuzman I, Zgorelec R, Smoljan I, Beus I, Avšič-Županc T, Dekaris D. Role of the blood mononuclear cell phenotype changes in the pathogenesis of hemorrhagic fever with renal syndrome. **Clin Exp Immunol 1999; 115:329-334. (IF 2,39)**
7. **Markotić A**, Rabatić S, Gagro A, Sabioncello A, Kuzman I, Dekaris D: Immunopathogenesis of hemorrhagic fever with renal syndrome (HFRS) in humans. In: **Emergence and Control of Rodent-Borne Viral Diseases (Hantaviruses and Arenaviruses)**. "Les Pensées", Veyrier-Du-Lac, Annecy, France, 1999, 125-131 . (citirano u CC-u)<sup>2</sup>
8. **Markotić A**, Nichol ST, Kuzman I, Sanchez AJ, Ksiazek TG, Gagro A, Rabatić S, Zgorelec R, Avšič-Županc T, Beus I, Dekaris D. Characteristics of Puumala and Dobrava Infections in Croatia. **J Med Virol 2002; 66:542-551. (IF 2,44)**
9. **Markotić A**, Kuzman I, Babić K, Gagro A, Nichol S, Ksiazek TG, Rabatić S, Dekaris D. Double trouble: hemorrhagic fever with renal syndrome and leptospirosis. **Scand J Infect Dis 2002;34:221-224. (IF 1,094)**
10. **Markotić A**. The Balkan syndrome. **Lancet 2002; 359: 166. (IF 18,5)**
11. Miletić Medved M, **Markotić A**, Cebalo Lj, Turković B, Avšič-Županc T. Haemorrhagic fever with renal syndrome in Croatia. **Lancet 2002; 360: 415-416. (IF 18,5)**
12. **Markotić A**, Gagro A, Dašić G, Kuzman I, Lukas D, Nichol S, Ksiazek TG, Sabioncello A, Rode O, Rabatić S, Dekaris D. Immune parameters in patient with hemorrhagic fever with renal syndrome during the period of incubation and in acute disease. **Croat Med J 2002;43: 587-590. (IF 0,78)**
13. **Markotić A**, Hensley L, Geisbert T, Spik K, Schmaljohn C. Hantaviruses induce cytopathic effect and apoptosis in continuous human embryonic kidney cells. **J Gen Virol 2003; 84: 2197-2202. (IF 3,186)**
14. Sabioncello A, Gotovac K, Vidović A, Gagro A, **Markotić A**, Rabatić S, Dekaris D. The immune system under stress. **Period Biol 2004; 4: 317-323.**
15. Dekaris I, Gabric N, Bosnar D, Gagro A, **Markotić A**, Lazic R. Interleukin-1alpha production in human corneal scars. **Coll Antropol. 2005;29 Suppl 1:81-4. (IF 0,306)**
16. Puljiz I, Kuzman I, **Markotić A**, Turcinov D, Matic M, Makek N. Electrocardiographic changes in patients with haemorrhagic fever with renal syndrome. **Scand J Infect Dis. 2005;37:594-598. (IF 1,094)**
17. Cvetko L, **Markotić A**, Plyusnina A, Margaletic J, Miletic-Medved M, Turk N, Milas Z, Avs Županc T, Plyusnin A. Puumala virus in Croatia in the 2002 HFRS outbreak. **J Med Viro 2005;77:290-4. (IF 2,44)**

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<sup>1</sup> The research paper as the part of the book listed in CC (referenced in the books)

<sup>2</sup> The research paper as the part of the book listed in CC (referenced in the books)



18. Lidija Cvetko, Nenad Turk, **Alemka Markotic**, Zoran Milas, Josip Margaletic, Marica Miletic-Medved, Alexander Plyusnin, Guy Baranton, Daniele Postic, and Tatjana Avsic-Zupanc. Dual infections with Puumala virus and *Leptospira interrogans* serovar Iora in a bank vole (*Clethrionomys glareolus*); **Am J Trop Med Hyg** 2006; 74:612-614. (IF 2,06)
19. Bosnar D, Dekaris I, Gabric N, **Markotic A**, Lazic R, Spoljaric N. Influence of interleukin-1alpha and tumor necrosis factor-alpha production on corneal graft survival. **Croat Med J.** 2006;47:59-66. (IF 0,78)
20. Vidović A, Vilibić M, **Markotić A**, Sabioncello A, Gotovac K, Folnegović-Šmalc V, Dekaris D. Baseline level of platelet-leukocyte aggregates, platelet CD63 expression and soluble P-selectin concentration in patients with posttraumatic stress disorder: A pilot study. **Psychiatry Research** 2006; 150:211-6. (IF 1,957)
21. Cebalo Lj, **Markotić A**. "Chemokine Production Predominates in Human Monocytes Infected with Tula Virus" **Viral Immunology.** 2007;20: 206-13. (IF 2,06)
22. Kosor Krnic E, Gagro A, Kozaric-Kovacic D, Vilibic M, Grubisic-Ilic M, Folnegovic-Smalc V, Drazenovic V, Cecuk-Jelicic E, Gjenero-Margan I, Kuzman I, Jeren T, Sabioncello A, Kerhin-Brkljacic V, Kaic B, **Markotic A**, Gotovac K, Rabatic S, Mlinaric-Galinovic G, Dekaris D. Outcome of influenza vaccination in combat-related post-traumatic stress disorder (PTSD) patients. **Clin Exp Immunol** 2007; 149:303-10. (IF 2,39)
23. Kosor Krnic E, Gagro A, Drazenovic V, Kuzman I, Jeren T, Cecuk-Jelicic E, Kerhin-Brkljacic V, Gjenero-Margan I, Kaic B, Rakusic S, Sabioncello A, **Markotic A**, Rabatic S, Mlinaric-Galinovic G, dekaris D. Enumeration of haemagglutinin-specific CD8+ T cells after influenza vaccination using MHC class I peptide tetramers. **Scand J Immunol** 2008; 67:86-94. (IF 2,09)
24. **Markotić A**, Hensley L, Daddario K, Spik K, Anderson K, Schmaljohn C. Pathogenic hantaviruses elicit different immunoreactions in THP-1 cells and primary monocytes and induce differentiation of human monocytes to dendritic-like cells. **Coll Antropol.** 2007;31:1159-67. (IF 0,306)
24. Puljiz I, Kuzman I, **Markotić A**. Imported case of nephropathia epidemica-a, case report. **Coll Antropol.** 2008;32:1263-5. (IF 0,306)
25. Darabos N, Hundric-Haspl Z, Haspl M, **Markotic A**, Darabos A, Moser C. Correlation between synovial fluid and serum IL-1beta levels after ACL surgery-preliminary report. **Int Orthop.** 2009;33:413-8. (IF 1,825)
26. Škerk V, Roglić S, Cajić V, **Markotić A**, Radonić A, Skerk V, Granić J, Zidovec-Lepej S, Parazajder J, Begovac J. Comparison of clinical symptoms scored according to the National Institutes of Health chronic prostatitis symptoms index and assessment of antimicrobial treatment in patients with chronic prostatitis syndrome. **J Chemother.** 2009;21:181-7. (IF 1,17)
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29. Radonić A, Kovacević V, **Markotić A**, Skerk V, Turčić P, Skerk V. The clinical significance of *Ureaplasma urealyticum* in chronic prostatitis. **J Chemother.** 2009; 21: 465-6. (IF 1,17)

30. **Markotić A**, Skerk V, Cvetko Krajinović L, Beus A. Is the clinical picture of Schnitzler syndrome always Schnitzler syndrome? **Clin Exp Rheumatol**. 2009;27:507-9. (IF 1,348)
31. Hukic M, Nikolic J, Valjevac A, Seremet M, Tesic G, **Markotic A**. A Serosurvey reveals Bosnia and Herzegovina as a Europe's hotspot in Hantavirus seroprevalence. **Epidemiol Infect**. 2010; 138:1185-93. (IF 2,37)
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34. Vidović A, Grubišić-Ilić M, Kozarić-Kovačić D, Gotovac K, Rakoš I, **Markotić A**, Rabatić S, Dekaris D, Sabioncello A. Exaggerated platelet reactivity to physiological agonists in war veterans with posttraumatic stress disorder. **Psychoneuroendocrinology**. 2011;36:161-72. (IF 5,528)
35. Magri V, Marras E, Skerk V, **Markotić A**, Restelli A, Garlaschi MC, Perletti G. Eradication of Chlamydia trachomatis parallels symptom regression in chronic bacterial prostatitis patients treated with a fluoroquinolone-macrolide combination. **Andrologia**. 2010;42:366-75. (IF 1,244)
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38. Skerk V, **Markotic A**, Puljiz I, Kuzman I, Celjuska Tosev E, Habus J, Turk N, Begovac J. Electrocardiographic changes in hospitalized patients with leptospirosis over a 10-year period. **Med Sci Monit** 2011;17:CR369-375. (IF 1,699)
39. Magri V, Montanari E, Skerk V, **Markotić A**, Marras E, Restelli A, Naber KG, Perletti G. Fluoroquinolone-macrolide combination therapy for chronic bacterial prostatitis: retrospective analysis of pathogen eradication rates, inflammatory findings and sexual dysfunction. **Asian J Androl** 2011;13:819-27. (IF 1,549)
40. Kolumbić Lakos A, Skerk V, Maleković G, Dujnić Spoljarević T, Kovacic D, Pasini M, **Markotić A**, Magri V, Perletti G. A switch therapy protocol with intravenous azithromycin and ciprofloxacin combination for severe, relapsing chronic bacterial prostatitis: a prospective non-comparative pilot study. **J Chemother** 2011; 23:350-3. (IF 1,17)
41. Tadin A, Turk N, Korva M, Margaletić J, Beck R, Vucelja M, Habuš J, Svoboda P, Županc TA, Henttonen H, **Markotić A**. Multiple co-infections of rodents with hantaviruses, Leptospira, and Babesia in Croatia. **Vector Borne Zoonotic Dis** 2012;12:388-92. (IF 2,44)
42. Kurolti IC, Paessler S, **Markotić A**. Resequencing of the Puumala virus strain Sotkamo from the WHO Arbovirus collection. **Virus Genes** 2012;45:389-92. (IF 1,85)
43. Cvetko Krajinović L, Šoprek S, Korva M, Dželalija B, Đaković Rode O, Škerk V, Avšič-Županc T, **Markotić A**. Serum levels of metalloproteinases and their inhibitors during infection with pathogens having integrin receptor-mediated cellular entry. **Scand J Infect Dis** 2012;44:663-9. (IF 1,72)
44. Đakovic Rode O, **Markotić A**, Kujundžić Tiljak M, Židovec Lepej S, Begovac J. Serum apoptosis markers in HIV-infected patients with human herpesvirus type 8

and herpes simplex virus type 2 co-infection. **Eur J Clin Microbiol Infect Dis** 2012;31:3303-8. (IF 2,86)

45. Puljiz I, **Markotić A**, Cvetko Krajinović L, Gužvinac M, Polašek O, Kuzman I. Mycoplasma pneumoniae in adult community-acquired pneumonia increases matrix metalloproteinase-9 serum level and induces its gene expression in peripheral blood mononuclear cells. **Med Sci Monit** 2012;18:500-505. (IF 1,7)

46. Turčinov D, Puljiz I, **Markotić A**, Kuzman I, Begovac J. Clinical and laboratory findings in patients with oliguric and non-oliguric Hantavirus haemorrhagic fever with renal syndrome: an analysis of 128 patients. **Clin Microbiol Infect** 2012 Jul 19. doi: 10.1111/j.1469-0691.2012.03994.x. [Epub ahead of print] PubMed PMID: 22963396. (IF 4,54)

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48. Kurolt IC, Betica Radić LJ, Đakovic Rode O, Franco L, Zelená H, Tenorio Antonio, **Markotić A**. Molecular characterization of dengue virus 1 from autochthonous dengue fever cases in Croatia. **Clin Microbiol Infect** 2013;19(3):E163-5. (IF 4,54)

49. Škerk V, **Markotić A**, Delić Brkljačić D, Manola S, Krčmar T, Gabrić ID, Stajminger G, Pintarić H. The association of ventricular tachycardia and endothelial dysfunction in the setting of acute myocardial infarction with ST elevation. **Med Sci Monit**. 2013;19:1027-36. (IF 1,7)

50. Merdić E, Perić L, Pandak N, Kurolt IC, Turić N, Vignjević G, Stofa I, Milas J, Bogojević MS, **Markotić A**. West Nile virus outbreak in humans in Croatia, 2012. **Coll Antropol**. 2013;37(3):943-7. (IF 0,306)

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