Iranian Dual-Use Science and Technology Bibliography

Volume III: CBW Related Research

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Iranian Biological Agent and Biotechnology Related Research Bibliography

Anthrax

Conference Papers:

First Congress of Public Health and Preventive Medicine, Tehran Medical and Health Aspects of Bioterrorism Panel No. 005, January 2000, A. Valenejad
Is Anthrax the Most Dangerous Biological Weapon?

11th Symposium of the International Society for Veterinary Epidemiology and Economics, August 6, 2006, E. Mostafavi, M.A. Rad, A. Bahonar, M. Azizzadeh and B. Khosronia
Iran Epidemiological Feature of Anthrax in Khorasan Province to March 1992 to 2005

Journal Articles:

Anthrax, a Continuous Problem in South West in Iran

*Department of Microbiology, the University of Michigan, Ann Arbor, Michigan
**Now at Department of Microbiology, Tehran University, Tehran, Iran
Structural Details of Anthrax Spores during Stages of Transformation into Vegetative Cells

*Department of Microbiology, the University of Michigan, Ann Arbor, Michigan
**Now at Department of Microbiology, Tehran University, Tehran, Iran
Cytological Features of Anthrax Spores Phagocytized in Vitro by Rabbit Alveolar Macrophages

Anthrax in Iran

Tropenmedizin und Parasitologie, 1974, Vol. 25, p96-104, S. Amadi
Human Anthrax in Iran: Report of 300 Cases and Review of Literature

Human Anthrax in Iran: An Epidemiological Study of 468 Cases

Journal of Mazandaran University of Medical Sciences, 2001, Vol. 10, p23-9, M. Mardani
Evaluation of Cutaneous Anthrax in Fifty Cases

Toxemic Shock, Hematuria, Hypokalemia, and Hypoproteinemia in a Case of Cutaneous Anthrax
Medical Science Monitor, 2002, Vol. 8, pCS73-6, F. Mansour-Ghanaei, S. Zareb and A. Salami
GI Anthrax: Report of One Case Confirmed with Autopsy

Cutaneous Anthrax Associated with Facial Palsy: Case Report and Literature Review

Anthrax

Rapid Detection of Bacillus Anthracis via PCR

Gastrointestinal Anthrax: Review of Nine Patients


Isolation of Anthrax Spores from Soil in Endemic Regions of Isfahan, Iran

Evaluation the Efficacy of Anthrax Vaccine against Challenge with a Highly Virulent Strain of Bacillus Anthracis Isolated from Soil in Sheep, Goats and Guinea Pigs in Iran

KOOMESH, 2005, Vol. 6, p201-6, M. Moghbeli, F. Malekzadeh, S. Zeinali, K. Parivar and M.A. Mazaheri
Cloning of Protective Antigen Gene from Bacillus Anthracis into Bacillus Subtilis

Construction of a Eukaryotic Plasmid Encoding Bacillus Anthracis Protective Antigen, a Candidate for DNA Vaccine

*Department of Infectious Diseases, Mazandaran University of Medical Sciences, Sari, Iran
**Division of Pathological Sciences, Institute of Comparative Medicine, University of Glasgow, Glasgow, UK
Three Rare Cases of Anthrax Arising from the Same Source
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Determination of Anthrax Foci through Isolation of Bacillus Anthracis from Soil Samples of Different Regions of Iran

Stability and Potency Studies of Anthrax Vaccine (Bacillus Anthracis 34F2 Sterne Strain) in Iran

A DNA Vaccine for B. Anthracis Immunization, pcDNA3.1 + PA Plasmid, Induce Th1/Th2 Mixed Responses and Protection in Mice

Two Cases of Gastrointestinal Anthrax with an Unusual Presentation from Kermanshah (Western Iran)

Two Rare Presentations of Fatal Anthrax: Meningeal and Intestinal

An Efficient Fusion Protein System for Expression of Bacillus Anthracis Protective Antigen as Immunoegenic and Diagnostic Antigen

The Phenotypic and Genotypic Characterization of Bacillus Anthracis Isolates from Iran

Avian Influenza

Conference Papers:

Proceedings of the 61st Meeting of the World Veterinary Association, 1999, France, Marandi M. Vasfi and M.H. Bozorgmehrifard
An Outbreak of Non-Highly Pathogenic Avian Influenza in Chickens in Iran

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Demonstration of Avian Influenza –A Virus in Iran by Immunodiffusion Technique
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Archives of the Razi Institute, 1994, Vol. 45, p1-10, S.M. Aghakhan, N. Abshar, Rasoul Nejad Fereidouni, C. Marunesi and M. Khodashenas
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Archives of the Razi Institute, 1999, Vol. 50, p0-0, S.A. Pourbakhsh, F. Moosakhani and M. Kianizadeh
Standardization of ELISA for Detection of Avian Influenza Virus Antibodies

Archives of the Razi Institute, 2000, Vol. 51, p27-38, S.A. Pourbakhsh, M. Khodashenas, M. Kianizadeh and H. Goodarzi
Isolation and Identification of Avian Influenza Virus H9N2 Subtype

A Seroepidemiological Study of Avian Influenza (H9N2) in Iran

The Use of Indirect Immunoperoxidase Assay in Diagnosis of Type A (H9N2) Avian Influenza Virus Antigen on Frozen Tissue Sections

Natural Cases and an Experimental Study of H9N2 Avian Influenza in Commercial Broiler Chickens of Iran

Amino Acid Sequence Analysis of Cleavage Site of Hemagglutinin Protein in Three Avian Influenza Viruses (H9N2)

A Study on Histopathologic Changes in Chicken following Intravenous Inoculation with Avian Influenza Virus A/Chicken/Iran/259/1998 (H9N2)

Histopathological Study of Intranasally Inoculated A/Chicken/Iran/259/1998 (H9N2) Influenza Virus in Chicken

Comparative and Evaluation of Immunohistochemical Methods for Detection of Avian Influenza Disease
Preparation of Neuraminidase Specific Antiserum from H9N2 Subtype of Avian Influenza Virus

Pathogenicity and Haemagglutinin Gene Sequence Analysis of Iranian Avian Influenza H9N2 Viruses Isolated during (1998-2001)

Establishment of RT-PCR for Detection of Avian Influenza Virus (H9N2) in Field Cases Compared to Virus Isolation Method

Reverse Transcription-PCR Assay for Typing and Subtyping of Influenza A Viruses (H7 Subtype)

Pathobiology of H9N2 Avian Influenza Virus in Japanese Quail (Coturnix coturnix japonica)

Mortality of Wild Swans Associated with Naturally Infection with Highly Pathogenic H5N1 Avian Influenza in Iran

Multiple Reverse Transcriptase-PCR Assay for Typing and Subtyping of Influenza A (H5 & H9) Virus in Iran

Pathological Findings of Highly Pathogenic Avian Influenza Virus A/Duck/Vietnam/12/2005 (H5/N1) in Turkeys

Comparison between RT-PCR and Viral Isolation for Detection of H9 Subtype of Avian Influenza Viruses

Archives of the Razi Institute, 2008, Vol. 63, p7-13, M.J. Mehrabanpour, R. Nisi and A. Toffian
Experimental Study on the Pathogenicity of Avian Influenza A/Ch/It/5093/99(H7N1) Virus in Chicken
Preparation and Release Behavior Evaluation of H9N2 Avian Influenza Virus Loaded PLGA Micrspheres using Double Emulsion-Solvent Evaporation

A Reverse Transcription-PCR Assay for Detection of Type A Influenza Virus and Differentiation of Avian H7 Subtype

Sequence Analysis of M2 Gene of Avian Influenza Virus Strain (A/chicken/Iran/101/98(H9N2)) as an Oil Vaccine Seed

Evaluation of H9N2 Avian Influenza Virus Dissemination in Various Organs of Experimentally Infected Broiler Chickens using RT-PCR

A Molecular Survey of Avian Influenza among Captive Birds in the City of Tehran between November 2008 and February 2009

Fusion and Sequence Analysis of the Influenza A (H9N2) Virus M2e and C-Terminal Fragment of Mycobacterium tuberculosis (HSP70 (H37Rv))

Influenza H1N1 (Swine Flu)

Prokaryotic Expression and Characterization of Avian Influenza Virus M2 Gene as a Candidate for Universal Recombinant Vaccine against Influenza A Subtypes; Specially H5N1 and H9N2

Evaluation of Intramuscular versus Intra-Dermal Innocation of Bacterial Plasmid Encoding Nucleoprotein of Influenza Virus

Bulgarian Journal of Veterinary Medicine, 2010, Vol. 13, p117-121, A. Mohammadi, M. Masoudian, Y. Nemati and S. Seifi
Serological and RT-PCR Assays for Detection of Avian Influenza of Domestic Pigeons in Kavar Area (Fars Province, Iran)
Molecular Characterization of Hemagglutinin and neuraminidase Genes of H9N2 Avian Influenza Viruses Isolated from Commercial Broiler Chicken in Iran

**Brucellosis**

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Brucellosis as a Source of Infectious Disease Caused by Bacteria in Animals and Humans

Study of Sensitivity of Brucella Abortus and Melitensis to Anti-Brucella Drugs

Current Research in Iranian Universities and Research Centers, January 2001, M.R. Sharifi and M. Qorayshian
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5th Iranian Congress of Infectious Diseases and Tropical Medicine, December 2-5, 1996, Tehran, Iran, S.H. Hashemi and M. Farshadi
Comparison between Doxycycline-Streptomycin and Doxycycline-Rifampin Regimens in Treatment of Brucellosis

Brucellosis 2003, September 15-17, 2003, Pamplona, Spain, H. Tadjbakkhsh
Serological Incidence of Brucella Antibody in Human and Domestic Animals in Iran

International Conference of Immunology and Annual Conference of FOCUS, July 18-23, 2004, Montreal, Quebec, Canada, S. Farshad, M.J. Mehrabanpour, A. Alborzi, A. japoni and M. Rasouli
Evaluation of Protective Role of Different Forms of LPS and OMPs of Brucella Abortus in Producing Protection against Brucellosis using Mabs
The National Iranian Conference on Brucellosis, July 5-6, 2005, Tehran, Iran, F. Sharifi and A. Masood

Study of Cross-Reaction between Brucella Melitensis and Coagulase-Negative Urease-Positive Staphylococci

The National Iranian Conference on Brucellosis, July 5-6, 2005, Tehran, Iran, A. Behruz-Khah

Typing of Endemic Strains of Brucella Abortus and Brucella Melitensis by RAPD-PCR

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Effect of Living rev. 1 Vaccine in Producing Long-Term Immunity against Brucella Melitensis Infection in Sheep in Iran


A Comparison of the Tube Agglutination and Card Tests for the Diagnosis of Brucella Melitensis Infection in Humans


A Comparative Study of Therapeutic Agents used for Treatment of Acute Brucellosis

Journal of Hygiene (London), 1974, Vol. 73, p221-8, H. Sabbaghian and A. Nadim

Epidemiology of Human Brucellosis in Isfahan, Iran


Swine Brucellosis in Iran


Frequency of Brucella Melitensis in Southern Iran


Typing of Brucella Strains Isolated in Iran
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Prevalence of Different Biotypes of Brucella spp. Isolated from Aborted Fetus in Sheep Population in Iran

Thyroid, 1996, Vol. 6, p461-3, F. Azizi and A. Katchouie
Brucella Infection of the Thyroid Gland

Archives of the Razi Institute, 1997, Vol. 34, p154-5, E. Zowghi and A. Ebadi
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Isolation and Purification of Major Outer Membrane Proteins from Brucella Abortus

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Evaluation of Indirect Immunofluorescent (IFA) in Diagnosis of Brucellosis versus Other Serologic Methods

Prevalence of Antibody to Brucella Species in Butchers, Slaughterers and Others

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Study of Brucellosis Treatment Regimens in Brucellosis Patients in Imam Khomeini Hospital of Tehran

Study of the Rate of Relapse and Efficiency Treatment Protocols in Hospitalized Patients at the Educational Hospital of Hamadan

High Level Expression of Recombinant Ribosomal Protein (L7/L12) from Brucella Abortus and its Reaction with Infected Human Sera

Extraction, Purification and Detoxification of Brucella Abortus Lipopolysaccharide and Evaluation of Biological Activity

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Epidemiological Features and Clinical Manifestations in 469 Adult Patients with Brucellosis in Babol, Northern Iran

Detection of Brucella Abortus by PCR Assay and Comparison with Culture Assay

Differentiation of Iranian Strains of Brucella spp. By Random Amplification of Polymorphic DNA

Iranian Journal of Clinical Infectious Disease, 2006, Vol. 1, p5-8, M. Hajia and M. Rahbar
Isolation of Brucella from Blood Culture of Hospitalized Brucellosis Patients

Cloning and Overexpression of rplL Gene of Brucella Abortus in Escherichia coli

Studies on the Antimicrobial Effect of Allicin on the Intra Macrophages Brucella

Hemophagocytosis and Pulmonary Involvement in Brucellosis

TLR4 Polymorphism in Iranian Patients with Brucellosis

Detection of Brucella Abortus by alkB and IS711 Based Primers

Comparison between Doxycycline-Rifampin-Amikacin and Doxycycline-Rifampin Regimens in the Treatment of Brucellosis

Risk Factor for Human Brucellosis in Iran: a Case-Control Study
Osteoarticular Complications of Brucellosis in Hamedan, an Endemic Area in the West of Iran

Brucellosis Antibody Level of Hospitalized Patients in Hamadan, Western Iran

Optimization of Brucella abortus Fermenter Cultural Conditions and LPS Extraction Methods for Antigen Production

Comparison of Heat Shock Response in Brucella Abortus and Brucella Melitensis

Optimization of Brucella abortus S99 Lipopolysaccharide Extraction by Phenol and Butanol Methods

Serological Evaluation of Brucella abortus S99 Lipopolysaccharide Extracted by an Optimized Method

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Evaluation of Stability Process of Brucella Melitensis – Rev. 1 Vaccine in Iran

**Cholera**

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Molecular and Phenotypic Study of Vibrio Cholerae in Iran
Iranian Dual-Use CBW Related Technology

9th Congress on Infectious Diseases and Tropical Medicine, 2000, Tehran, Iran, M. Pourshafie, M. Saifi, F. Hassanzadeh and M. Sedaghat
Evaluation of Antibiotic Resistance of V. cholerae Strains Isolated from Clinical Samples in Tehran, Iran

The Second National Biotechnology Conference of the Islamic Republic of Iran, October 9-11, 2001, Karaj, Iran, A. Karami, A.H. Salmanian, M. Akbari and M. Kamali
Rapid Detection of Toxigenic V. Cholera O1 using PCR

14th Congress on Infectious Diseases and Tropical Medicine, 2005, Tehran, Iran, M. Sedaghat, M. Parzadeh, J. Raisi and M.R. Pourshafi
Molecular Detection, Antibiotic Resistance and Serotyping of Cholera

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Detection of HlyA Gene and Antibiotic Resistance of Cholera

Journal Articles:

*Pasteur Institute of Iran, Tehran, Iran
**Institut Pasteur, Unite des Enterbacteries, Unite INSERM, Paris, France
Molecular Epidemiological Study of Vibrio Cholerae Isolates from Infected Patients in Tehran, Iran

*Pasteur Institute of Iran, Tehran, Iran
**Institut Pasteur, Unite des Enterbacteries, Unite INSERM, Paris, France
A Molecular and Pheotypic Study of Vibrio Cholerae in Iran

Occurrence of Pathogenic Vibrios in Coastal Areas of Golestan Province in Iran

An Analysis of Recent Cholera Epidemic in the Islamic Republic of Iran

Rapid Detection of Toxigenic Vibrio Cholera O1 using PCR Enzyme-Linked Immunosorbent Asay (PCR-ELISA)
Iranian Dual-Use CBW Related Technology

Molecular Detection of the Pathogenic HYLA Gene and Antibiotic Susceptibility in 100 Specimens from Patients with Cholera

Dissemination of a Single Vibrio cholerae Clone in Cholera Outbreaks during 2005 in Iran

Production of Antibody Raised against Lipopolysaccharide (LPS) of Vibrio cholerae Non-O1

Clostridium Botulinum

Conference Papers:

1\textsuperscript{st} National Biotechnology Conference of the Iranian Republic of Iran, February 22-4, 1999, Tehran, Iran, M. Tavallaie, A.H. Salmanian and S. Bouzari
Isolation, Characterization and Cloning of Binding Domains of C. botulinum Toxin Type A: A Candidate for Vaccine Development

1\textsuperscript{st} Congress of Occupational and Environmental Toxicology, February 23-5, 1999, Kerman, Iran, M. Sattari and S.F. Mousavi
Toxicogenicity of Clostridium botulinum Strains Isolated from Natural Sources in the North of Iran

14\textsuperscript{th} Iranian Congress of Physiology and Pharmacology, May 16-20, 1999, Tehran, Iran, M. Sattari and S.F. Mousavi
Inhibiting Effect of Chemical Agents on Growth of Clostridium botulinum

First Congress of Public Health and Preventive Medicine, Tehran Medical and Health Aspects of Bioterrorism Panel No. 008, January 2000, M.R. Mardani
Classification of Local Bacteria in Iran as the First Step in Prevention and Diagnosis of Biological Warfare

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Botulinum Toxin as a Powerful Weapon of Biological Warfare

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Physiochemical Conditions of Cultural Medium of Production of Botulinum Toxin Type A
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Production, Extraction and Activity Measurement of Clostridium botulinum Type A Neurotoxin on the Basis of Quantitative Parameters

Cloning of Binding Domain of Clostridium Botulinum Type A in Escherichia coli

The Effect of Zinc’s Chelator on Clostridium botulinum Type A Toxin Activity

Iranian Journal of Infectious Diseases and Tropical Medicine, 2002, Vol. 7, p70-5, R. Ataee and N.Q. Behzadian
The Effect of Different Concentrations of Culture Medium on Toxin Production and Extinction Coefficient of Botulinum Neurotoxin Type A

The Effect of Magnesium Sulfate on Spore Germination, Outgrowth and Toxin Production of Clostridium botulinum Type A

The Effect of Copper Sulfate on Spore Germination, Outgrowth and Toxin Production of Clostridium botulinum Type A

Detection of Clostridium Botulinum Type A by PCR-ELISA

Isolation of Clostridium botulinum (Types A, B and E) in Sediments from Coastal Areas in the North of Iran

Evaluation of Antibody Y (IGY) Raised against Botulinum Neurotoxin Type A in an Animal Model
Interaction between the Two Subdomains of the C-Terminal Part of the Botulinum Neurotoxin A is Essential for the Generation of Protective Antibodies

Cloning, Expression and Purification of Clostridium botulinum Neurotoxin Type E Binding Domain

Cloning, Expression and Purification of the Gene Coding Translocating Domain of Botulinum Neurotoxin Type A

The Distribution Study of A, B and E Types of Clostridium Botulinum in Some Natural Fish Species of Iran

Detection of Clostridium Types A, B and E by Multiplex PCR Assay

Journal of Medical Microbiology, 2005, Vol. 54, p933-6, *M. Pourshafie, **P. Vahdani and ***M. Popoff
*Pasteur Institute of Iran, Tehran, Iran
**Logman Hospital, Tehran, Iran
***Institut Pasteur, Unite des Anaerobies, Paris, France
Genotyping Clostridium botulinum ToxinType A Isolates from Patients using Amplified rDNA Restriction Analysis

Growth and Toxigenesis Behavior of Clostridium botulinum Type E in Persian Surgeon (Acipenser persicus) Caviar Prepared with Various Preservatives

Optimization of the BoNT/A-Hc Expression in Recombinant Escherichia coli using the Taguchi Statistical Method
Iranian Journal of Military Medicine, 2010, Vol. 12, p51-56, M.E. Minaei and M. Sa’adati
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Cloning and Expression of a region of Vesicle Associated Membrane Protein2 (VAMP2) Gene and its use as a Recombinant Peptide Substrate for Assaying Clostridial Neurotoxins in Contaminated Biologicals

Cloning, High Level Expression and Immunogenicity of 1163-1256 Residues of C-Terminal Heavy Chain C. Botulinum Neurotoxin Type E

Production and Characterization of a Recombinant Chimeic Antigen Consisting of Botulinum Neurotoxin Serotypes A, B and E Binding Subdomains

An Epitopic Approach to Designing and Characterization of a Multiple Antigenic Polypeptide against Botulinum Neurotoxins A and E

Crimean-Congo Hemorrhagic Fever

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First Congress of Public Health and Preventive Medicine, Tehran Medical and Health Aspects of Bioterrorism Panel No. 007, January 2000, M. Mardani
Role of Hemorrhagic Viral Fevers in Bioterrorism

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The Seroepidemiological Aspects of Crimean-Congo Hemorrhagic Fever in Three Health Workers: A Report from Iran
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Could CCHF Virus be Transmitted via Air

The Efficacy of Oral Ribavirin in the Treatment of Crimean-Congo Hemorrhagic Fever in Iran

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*****Center for Disease Control, Ministry of Health
Genetic Analysis of Crimean-Congo Hemorrhagic Fever Virus in Iran

Production and Characterization of Monoclonal Antibodies against Human IgG in Balb/c Mouse

A Serological Survey in Suspected Human Patients of Crimean-Congo Haemorrhagic Fever in Iran by Determination of IgM-Specific ELISA Method during 2000-2004

Crimean-Congo Hemorrhagic Fever: Case Series from a Medical Center in Golestan Province, Northeast of Iran

Seroprevalence of Crimean-Congo Hemorrhagic Fever in Sistan-va-Baluchestan Province of Iran

Crimean-Congo Hemorrhagic Fever in Southeast of Iran
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Ribavirin: An Effective Drug for Treatment of Children with Crimean-Congo Hemorrhagic Fever: A Seven Year Experience

Tick Borne Crimean-Congo Haemorrhagic Fever in Fars Province, Southern Iran: Epidemiologic Characteristics and Vector Surveillance

Crimean-Congo Hemorrhagic Fever among Health Care Workers in Iran: A Seroprevalence Study in Two Endemic Regions

**Diphtheria Toxin**

**Journal Articles:**

Study on Diphtheria Toxin Purification: A New Approach to Prepare Toxoid

**Legionella Pneumophila**

**Conference Papers:**

First Microbiology Conference, November 1992, Tehran, Iran, M.M. Aslani, M. Pourmansour and M. Motavalian
Isolation of Legionella sp. From Water Supply Samples of Tehran Hospital

The 8th Iranian Congress on Infectious Disease and Tropical Medicine, January 16-20, 2000, S.R.H. Doust
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The 5th Iranian Seminar of Pharmaceutical Sciences, August 26-28, 2000, R. Hosseini Doust, A.M. Mobarez and A. Imani
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The Risk Factor of Legionella Infections in Tehran Hospitals

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Relationship of Legionella pneumophila and Free-Living Amoebae

Isolation of Legionella pneumophila from Tehran Hospital Water Samples

Isolation of Legionella pneumophila serogroups 1, 8 &10 (causative agents of Legionnaires disease) from Water Sources in Tehran, Iran

Growth Enhancement of L. pneumophila after Cocultivation with Acanthamoeba

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Molecular Detection of Legionella pneumophila within Culture-Negative Samples

Identification of Legionella pneumophila in Bronchoalveolar Lavage Fluid Specimens by PCR

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Poxviruses

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Journal of Comparative Pathology, 1959, Vol. 69, p141-7, A. Rafyi and H. Ramyar
Goat Pox in Iran; Serial Passage in Goats and the Developing Egg and Relationship with Sheep Pox

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Propagation of Goat Pox Virus on Monlayer Cell Cultures

Development of an Attenuated Live Virus Vaccine against Sheep Pox

A New Approach to Active Immunization of Sheep by a Combined Sheep Pox and Anthrax Vaccine

Studies on the Duration of Immunity Conferred by a Live-Modified Sheep Pox Tissue Culture Virus Vaccine

Archives of the Razi Institute, 1971, Vol. 23, p93-105, H. Mirchamsy and P. Ahourai
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**B. Ghaboosi
*Department of Medical Microbiology, Liverpool University, Liverpool, UK
** Razi Institute, Tehran, Iran
Response of Camels to Intradermal Inoculation with Smallpox and Camelpox Viruses

Ricin

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Extraction and Partial Purification of Ricin from Ricinus Communis L.
**Staphylococcus Aureus**

**Conference Papers:**

4\textsuperscript{th} Congress of Microbiology, 2001, Tehran, Iran, F. Zandi, M. Sattari and M. Sadeghizadeh
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A Modified Method for Preparation of Staphylococcus aureus Peptidoglycan towards Making a Subunit Vaccine

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Effects of Combination of Antibiotics and Electromagnetic Fields on Staphylococcus Aureus

Surveying the Effects of Different Methods of Mutations on the Antibiotic Resistance Patterns and Plasmids in E. Coli and Staph Aureus

Biological Effects of Type B Staphylococcus Enterotoxin

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*Research Center of Molecular Biology and Department of Microbiology, Baqiyatallah University of Medical Sciences
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*****Division of Molecular Pathology, Department of Pathology, Tohoku University School of Medicine, Sendai, Japan

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**Departmento de Bioquimica e Biologia Molecular, Universidade Federal do Parana, Parana, Brasil
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*Agricultural Biotechnology Research Institute of Iran
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*Department of Biotechnology, Delft University of Technology, Delft, the Netherlands (on leave from Department of Chemical Engineering, Sahand University of Technology, Tabriz, Iran)
**Department of Chemical Engineering, Sahand University of Technology, Tabriz, Iran
***DelftChemTech, Delft University of Technology, Delft, the Netherlands
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*Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran
**The National Research Center of Genetic Engineering and Biotechnology, Tehran, Iran
***Institute of Chemistry, Academia Sinica, Taipei, Taiwan
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*Department of Biotechnology, Lund University, Lund, Sweden (on leave from Chemical Engineering Department, Iran University of Science and Technology, Narmark, Iran)
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***Chemical Engineering Department, Iran University of Science and Technology, Narmark, Iran
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*Esfahan Agriculture and Natural Resources Research Centre, Esfahan, Iran
** Departmento de Bioquimica e Biologia Molecular, Universidade Federal do Parana, Parana, Brasil
***Chemical and Petroleum Engineering Department, Sharif University of Technology, Tehran, Iran
****Departmento de Ingenieria Quimica, Universidad de Camaguey, Camaguey, Cuba
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***Chemical Engineering Department, Iran University of Science and Technology, Narmark, Iran
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*Vavilov Institute of General Genetics, Russian Academy of Sciences, Moscow, Russia
**Faculty of Animal Science, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran and the Vavilov Institute of General Genetics, Russian Academy of Sciences, Moscow, Russia
***Agricultural College, Shahid Bahonar Kerman University, Kerman, Iran
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*Pastuer Institute, Tehran, Iran
**Limsburg Universitair Centrum, Diepenbeek, Belgium
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*National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran
**Department of Biological Sciences, Imam Hossein University and National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran
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*Laboratory of Biotechnology, Hamadan University of Medical Sciences, Hamadan, Iran
**Department of Medical Parasitology, Hamadan University of Medical Sciences, Hamadan, Iran
***Biotechnology Research Center, Toyama Prefectural University, Toyama, Japan
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**Biotechnology Research Group, Murdoch University, Western Australia, Australia
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**King’s College School of Medicine and Dentistry, King’s College, London, UK
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*Research Center, Iranian Blood Transfusion Organization, Tehran
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***Department of Procees and Food Engineering, Faculty of Engineering, Universiti Putra Malaysia, Selangor, Malaysia
****Department of Chemical and Environmental Engineering, Faculty of Engineering, Universiti Putra Malaysia, Selangor, Malaysia
*****Department of Cell and Molecular Biology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia
******Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia
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**Institute of Bioscience, Universiti Putra Malaysia, Selangor, Malaysia
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***National Research Council of Canada, Biotechnology Research Institute, Montreal, Canada
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*Department of Agronomy and Plant Breeding, University of Tehran, Tehran, Iran
**Vavilov Institute of General Genetics, Russian Academy of Sciences, Moscow, Russia
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* Laboratory of Plant Breeding, Wageningen University, Wageningen, the Netherlands
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*Department of Biology, Institute of Basic Sciences, Imam Hossein University
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*Department of Biology, Institute of Basic Sciences, Imam Hossein University and Applied Biotechnology Center, Baqiyatallah University of Medical Sciences
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*Department of Biology, Institute of Basic Sciences, Imam Hossein University
**Applied Biotechnology Center, Baqiyatallah University of Medical Sciences
***Department of Immunology, Faculty of Medical Sciences, Tarbiat Modares University, Tehran

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**Department of Biology, Institute of Basic Sciences, Imam Hossein University and Department of Biology, Shahed University, Tehran

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