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# TURGUT IMIR

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#  AREAS OF RESEARCH INTEREST

 Cellular and humoral immunity (Detection and activation of cytotoxic T lymphocytes, NK cell, LAK cell, purification of antigen and antibodies, monoclonal antibody preparation), infection immunity.

# EDUCATION

1988 Professor in Microbiology, Gazi University, Faculty of Medicine, Ankara, Turkiye

1979 Associate Professor (Doçent) in Microbiology, Hacettepe

University, Faculty of Medicine, Ankara, Turkiye

1974 Ph.D. in Microbiology, Hacettepe University Faculty of Medicine, Ankara, Turkiye

1969 Doctor of Veterinary Medicine, University of Ankara Turkiye

# POST GRADUATE EDUCATIONS

1970-1974 Research and teaching fellow, Microbiology Institute, Faculty of Medicine, Hacettepe University, Ankara, Turkiye

1974 July Short-time post-doctoral advanced course in Basel Immunology Institute, Basel, Switzerland. (Topic : Lymphocyte in-vitro)

1979 Sept Post-Doctoral advanced course in Jackson Laboratory, Bar Harbor, Maine, U.S.A. (Topic : Research on Cancer, WHO, UICC Organization)

1992 May Hybridomas and monoclonal antibody technology workshop, Rockville, Maryland, USA. (American Type Culture Collection Workshop Series)

# CURRENT PROJECTS

Searching of Natural Killer (NK) and Lymphokine Activated Killer (LAK) cell physiology, morphology and their augmentation and inhibition on killing, LPS and endotoxin effect on activation of lymphocytes, infection immunity (brucella, tuberculosis, leishmania), hybrid resistancy and MHC Class I specific peptide in “self recognition” by NK cells. Recombinant protein purification and peptide vaccines.

# ACADEMIC APPOINTMENTS

1970 June Research and teaching fellow, Microbiology Institute, Faculty of Medicine, 1974 Jan Hacettepe University, Ankara, Turkiye

1974 Jan Post-doctoral research fellow, Department of Bacteriology and Immunology, 1976 Jan Faculty of Medicine, University of Helsinki, Finland

1976 Jan Lecturer, Department of Microbiology, Faculty of Medicine, Hacettepe University, Ankara, Turkiye

1978 June Short-term research fellow, Department of Bacteriology and Immunology,

1978 Sept Faculty of Medicine, Helsinki University,Finland

1979 Nov Associate Professor, Department of Microbiology, Faculty of Medicine, Hacettepe University, Ankara, Turkiye

1980 July Associate Professor, Head of Basic Medical Sciences and Department of Microbiology, Faculty of Medicine, Gazi University, Ankara,Turkiye

1984 Jan Visiting Professor, (teaching), Biology

1984 June Department, New Mexico Institute of Mining and Technology, Socorro, New Mexico, U.S.A

1984 June- Visiting Professor, (research), Division of

1985 Dec Rheumatology and Immunology, School of Medicine, University of New Mexico, Albuquerque,New Mexico, U.S.A.

1985 Jan- Visiting Professor, (teaching, part-time),

1985 June Department of Biology, New Mexico Institute of Mining and Technology, Socorro, New Mexico,

1986 Jan- Associate Professor, Head of Microbiology Department, Faculty of Medicine, Gazi University, Ankara, Turkiye

1988 Sept- Professor, Head of Microbiology Department, Faculty of Medicine, Gazi University, Ankara, Türkiye

1990 Mar- Director, Institute of Health Sciences, Gazi

1992 Sept University, Ankara, Turkiye

1993 May - Director, Immunology Research and Application Centre, Gazi University,

2010 Apr Ankara

1997 Nov- Visiting Scientist, Ontario Cancer Research

1998 Jan Institute, Dept. of Immunology,Toronto, Canada

1999 Apr- Visiting Scientist, Rush Cancer Institute,

1999 Nov Dept.of Bone Marrow Transplantation, Chicago, USA

2012 April Professor, Head of Microbiology Department, Near East University, Nicosia,

 Northern Cyprus

# TEACHING ACTIVITIES

# YEAR COURSE TITLE No.STUDENTs LENGTH

1970 - 1973 General Microbiology 90 1 Sem.

1970 - 1973 Food Microbiology 75 1 Sem.

1972 - 1973 Immunology 100 1 Sem.

1976 - 1979 Immunology 180 1 Sem.

1976 - 1979 Experimental Immunology 45 1 Sem.

1980 - 1984 Medical Microbiology 240 2 Sem

1980 - 1984 Immunology 240 2 Sem.

1984 - 1985 Microbiology 35 2 Sem

1986 - 2012 Oral Microbiology 150 2 Sem

1986 - 2012 Medical Microbiology 270 2 Sem

1986 - Immunology 270 2 Sem.

# STUDENT COUNSELING

1976 - 1980 3 Graduate students in Medicine

1980 - 1984 4 Graduate students in Medicine

1986 - 1989 3 Students for specialization in Medical Microbiology

1988 - 4 Ph.D., 2 M.Sci., 2 Specialization students.

# HONORS AND AWARDS

1973 Post-doctoral Research Fellowship, Finnish Government (Ministry of Education) Research Grant

1974 International Union of Immunological Societies Travel Fellowship

1974 UNICEF, UNICC post-doctoral advanced course in Basel Immunology Institute, Basel, Switzerland

1975 Sigrid-Juselius Foundation post-doctoral research grant

1975 U.S.A. Public Health Service Grant Recipient (No.NIH, NO1-CB-43923)

1976 International Union of Immunological Societies travel fellowship to Australia

1978 Finnish Ministry of Education short-time fellowship, Finland

1979 UICC, WHO post-doctoral training course on Cancer Research, Bar Harbor, U.S.A.

1989 NATO Science for Stability Program, research grant (TU-Lymphocyte)

1995 State Planning Organization’s research grant

1995 British Council short-term fellowship

1997 NATO Post Doctoral Research fellowship.

2009 TÜBA best University Educational Book Award.

# ADDITIONAL PERSONAL INFORMATION

1979 - 1984 President of Turkish Rowing Federation.

 (Many years was a member of Turkish National Rowing Team).

1980-1984 Coordinator for the 1st, 2nd and 3rd year education in Gazi University Medical School.

1980-1984 Head of the Basic Medical Sciences at Gazi University Medical School.

1980 - 1991 Director of Gazi University Medical Faculty Hospital Rutine Microbiology Laboratory.

1988 - 1991 Member of the committee of Medical Research Section of Turkish Scientific and Technical Research Council, Ankara,Turkiye

1989 -1990 Executive Secretary for Medical Research Section of Turkish Scientific and Technical Research Council, Ankara,

1990 Vice President (Technical) of Turkish Scientific and

 Technical Research Council, Ankara Türkiye

1990-1991 European Science Foundation’s Turkey Representative.

1991 Established an Immunology and Tissue Typing Laboratory (Director).

1991-2012 Director of Immunology Laboratory (Oto-immun antibody detection).

1992 - 1996 Advisor for Sevgi Hospital Laboratories (Ankara)

1995 - 1996 Undersecretary, Turkish Ministry of Health,

 Licenced for flying, sailing, scuba diving, tennis and skiing.

# PROFESSIONAL AFFILIATIONS

1971 Ankara Microbiology Association

1975 Scandinavia Society for Immunology

1976 Turkish Society for Immunology

1978 British Society for Immunology

**PERSONAL DATA**

Birth 1946

Place Ankara, Turkey

Citizenship Turkish,

Status Married, one child

# PUBLICATIONS

# YAYINLAR

**Hakemli Dergilerde Yayınlananlar**

imir T., Alfa-fetoprotein, Sivas, 1: 141, 1978.

imir T., Alfa-fetoprotein (AFP) prufication, application to radioimmunoassay (RIA) and normal serum values, Biyokimya Dergisi, 4: 160, 1979.

imir T., inal A., Maternal serum alfa-protein levels in normal pregnancies, Acta Reproductiva Turcica, 2: 71, 1980.

Ozbilen S., Akyıldız N., Beder E., imir T., Göksu N., Ergin M., Determination of the blood and effusion immunoglobulin levels in middle ear effusions, G.U.Tıp Fakultesi Dergisi, 1: 41, 1985.

imir T., Immune complex in infectious diseases, G.U.Tıp Fakultesi Dergisi, 3: 229, 1987.

imir T., Interleukins, Turkiye Klinikleri, 7: 506, 1987.

Turet S., Ergin M., imir T., Bacteriological and parasitological investigation on diarrhoeal cases, G.U.Tıp Fakultesi Dergisi, 1: 59, 1989.

Demirsoy S., Sultan N., imir T., Atalay Y., Effectiveness of benzathine penicilline G and cefaclor in streptococcal tonsillitis and their effects on beta-lactamase activity, G.U.Tıp Fakultesi Dergisi, 5: 31, 1989.

Sibbitt W.L. Jr., imir T., Bankhurst A.D., In-vitro modulation of lymphokine activated killer (LAK) cell function by aqueus suspentions of inert particles, JIAS, 1: 61, 1988.

imir T., Measuring the natural killer cell activity on candida species, JIAS, 2: 232, 1989.

Rota S., Beyazova U., Atalay Y., imir T., Comparison of rapid tests with throat cultures in diagnosis of group A streptococci, G.U.Tıp Fakultesi Dergisi, 5: 363, 1989.

Aybay C., imir T., The influence of cryopreservation on Natural Killer cell cytotoxic activity, Turk.J.of Med. Res., 20:45, 1994.

Aybay C., Caglar K., imir T., Effect of ciprofloxacin on mitogen-stimulated human peripheral blood mononuclear cell proliferation, Turk. J. Med. Res., 12: 11, 1994.

Aybay C., Caglar K., imir T., Mechanism of natural killer cell lysis: Effect of microtubule disrupting agent on human NK cytotoxic activity, Turk.J.Med.Res., 23 : 5, 1995.

Sin B., Aybay C., Mısırlıgil Z., Gurbuz L., imir T., Natural killer cell activity in allergic asthma, Turk.J.Med.Res., 24 : 195, 1995.

 Aybay C., Basaydın I., imir T., Sultan N., Staphylococcal enterotoxin B induced TNFa and IFN- production from human peripheral blood mononuclear cells and increased human NK cytotoxic activity, Turk.J. Med.Res., 24 : 51, 1995.

Aybay C., imir T., EBV and cellular immune response, Turkiye Klinikleri Tıp Bilimleri Dergisi 1995; 15: 286,1995.

Yucel A, Yucel AE, imir T, HLA antigens and Diseases-I, Romatology Bulletin,3: 3, 1995.

Yucel A, Yucel AE, imir T, HLA antigens and Diseases-II, Romatology Bulletin, 3: 49, 1995.

Ozenirler S., Altıntas E., Aybay C., Kandilci U., imir T., Natural Killer cell and lymphokine-activated killer cell activities in patients with liver cirrhosis relative to severity of liver damage, Gazi Medical J., 7 : 15, 1996.

Aybay C., Caglar K., imir T., Sultan N., Investigation of the relationship between otoauglutination and the capsular structure in Staphylococcus aureus. Tur.J. Infection, 10: 347, 1996.

Aybay C., imir T., Caglar K., Kayhan B., Induction of nitrogen radicals and TNF from macrophages by Leishmania major promastigot cells, Tur.J. Infection, 10: 355, 1996.

Aybay C., imir T., Caglar K., Kayhan B., Production of nitrogen radicals and tumor necrosis factor by macrophages against Leismania major promastigotes, Tur.J. Infection, 10 : 355, 1996.

 Gorgul A., Kayhan B., Kayhan B., Mentes B.B., Akcalı Z., Aybay C., Cindoruk M., Dumlu S., imir T., “Prophylactİc effect of somatostatin on ERCP-induced pancreatitis.” Gazi Medical Journal , 7 : 129, 1996

Aybay C., imir T., Ozkan S., Caglar K., Sultan N., Effect of several antibiotics on the proliferation of Leishmania major promastigot cells, Turkish Journal of Parasitology, 21 : 1, 1997.

Aybay C., imir T., Gulsayın H. C., Kayhan B., Effect of monophosphoryl lipid A on LPS-induced nitric oxide from RAW 264.7 macrophage like cells, Flora, 2 : 120, 1997.

Aybay C., imir T., Caglar K., Kayhan B., Lethal effect of normal human serum on Leishmania major promastigot cells, Turkish Journal of Parasitology, 21: 105, 1997.

Aybay C., imir T., Ozkan S., Caglar K., Sultan N., Effect of several antibiotics on the proliferation of Leishmania major promastigot cells, Turkish Journal of Parasitology, 21 : 1, 1997.

Caglar K., Aybay C., imir T., Sultan N., Lethal effect of hydrogen peroxide on Leishmania major promastigot cells, Tur.J. Infection, 11 : 375, 1997.

Aybay C., Caglar K., imir T., The effect of Staphylococcus epidermidis-extracted slime substance on nitric oxide production from macrophages, Tur.J. Infection, 11: 353, 1997.

Aybay C., Tarhan G., imir T., Measurement of lethal effect of diphteria toxin on various cell lines by MTT colorimetric assay, Tur. J. Infection, 12: 129, 1998 .

Aybay C., Taysi BN., imir T., Cytokine response of mononuclear cells against Staphylococcus epidermidis-extracted slime substances, Turkish Medical Journal, 5: 300, 1998.

Yucel A., imir T., Chronoimmunology, Tur. J. Immunology, 2: 29, 1998.

Aybay C., imir T., Kayhan B., A competitive enzyme linked immunosorbent assay (ELISA) for determination of human albumin in the nanogram range, Gazi Medical J., 10: 63, 1999.

Taysi B, Kayhan B, Aybay C, imir T., Effects of interferon-g and lipopolysaccharide on nitric oxide synthesis from murine macrophages, Turkish Medical Journal, 6: 307, 1999.

Yucel A., Bozdayi G, imir T, Serological profile of hepatitis B, hepetatis C and human immunodeficiency viruses among pregnant women, Gazi Medical Journal, 12: 103-105, 2001.

Imir T, Ustacelebi, S, Virus and Autoimmunity, Turkiye Klinikleri, Immunology and Rheumatology, 3: 6-14, 2003.

Imir T, Ustacelebi, S, Virus and Autoimmunity, Turkiye Klinikleri, Immunology and Rheumatology, 3: 6-14, 2003.

Fidan, I., Yuksel, S., Imir. T., Ozkan, S., Dogan. E., Inhibition of the antimicrobial effects of chlorhexidine by different agents, T.Klin.Diş.Hek.Bil., 10: 1-4, 2004.

Fidan I, Yüksel S, İmir T, Özkan S, Doğan E, Klorheksidinin antimikrobiyal etkisinin farklı maddelerde önlenmesi. Türkiye Klinikleri Dişhekimliği Bilimleri Dergisi, 10: 1-4 2004.

Fidan I, İmir T, Rekombinant DNA Teknolojisi. İnfeksiyon Dergisi 19: 263-270, 2005.

Fidan I, Kalkancı A, Yeşilyurt E, Erdal B, Kustimur S, İmir T. The effect of microorganisms on cytokine secretion from bone marrow dendritic cells, Turk J Med Sci. 2010; 40(4): 557-563.

İmir T, Fidan I. Transplantation immunology, in Organ Transplantation and Infection, Eds.: Dizer U, Yigitler C, Aydogan H, Gunes Tıp Kitabevi, 2011, pp. 71-80.

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Yulug N., imir T., Factors effecting the results in antibiotic resistance test, Mikrobiyoloji Bülteni, 6: 187, 1972.

imir T., Gulmezoglu E., Separation of excreted immunoglobulin A (IgA) from human colostrum, Mikrobiyoloji Bulteni, 7: 33, 1973.

Saksela E., imir T., Makela O., Specifically cytotoxic human and mouse lymphoid cells induced with antibody or antigen-antibody complexes, Journal of Immunology, 115: 1488, 1975.

imir T., Gulmezoglu E., Serum immunoglobulin level differences in various cancer patients, Mikrobiyoloji Bulteni, 10: 437, 1976.

imir T., Saksela E., Makela O., Two types of antibody mediated cytotoxicity, arming and sensitization, Journal of Immunology, 117: 126, 1976.

Saksela E., imir T., Makela O., Spontaneous, augmentable cell-mediated cytotoxicity with limited target cell specificity in human blood, European Journal of Immunology, 7: 126, 1977.

imir T., Saksela E., Makela,O., Antibody dependent cell-mediated cytotoxicity in various orders of vertebrates, Scandinavian Journal of Immunology, 6: 853, 1977.

 Kaartinen M., imir T., Klockars M., Sandholm M., Makela O., IgA in blood and thoracic duct lymph: concentration and degree of polymerization, Scandinavian Journal of Immunology, 7: 229, 1978.

imir T., Alpha-Fetoprotein (AFP) levels in liver cirrhosis and viral hepatitis patients, Mikrobiyoloji Bulteni, 15: 7, 1981.

imir T., Sibbitt W.L.Jr., Bankhurst A.D., The differential sensitivity of spontaneous (NK) and lymphokine-activated (LAK) killer cells to immunoregulatory factors, Federation Proceedings, 44: 590, !985.

imir T., Gibbs D., Sibbitt W.L.Jr., Bankhurst A.D., Generation of natural killer (NK) cells and lymphokine activated killer (LAK) cells in human AB serum or fetal bovine serum, Clinical Immunology and Immunopathology, 36: 289, 1985.

Ming R., Atlaru R., Spellman C., imir T., Strickland R.G., Interleukin-2 (IL-2) production, receptor density and lymphokine-activated cytotoxicity (LAC) are not deficient in inflamatory bowel disease (IBD), Gastroenterology (A), 88: 1503, 1985.

 imir T., Bankhurst AD., A novel anomalous killer cell. The enterotoxin activated cytotoxic cell (EK cell), Clinical Research, 34: A99, 1986.

Sibbitt W.L.Jr., imir T., Bankhurst A.D., Inert particles inhibit natural killer cell function in-vitro, Cellular Immunology, 97: 146, 1986.

Sibbitt W.L.Jr., imir T., Bankhurst A.D., Reversible inhibition of lymphokine-activated killer cell activity induced by lypoxygenase pathway inhibitor, International Journal of Cancer, 38: 517, 1986.

Ming R.H., imir T., Bankhurst A.D., Strickland R.G., Factors released during enzymatic extraction of Intestinal mononuclear (IMNC) impair lymphocyte function, Gastroenterology (A), 90: 1553, 1986.

imir T., Bankhurst A.D., Inhibition of Natural Killer and Lymphokine Activated Killer (LAK) cell cytotoxicity by using monosaccharides and lectins, Mikrobiyoloji Bulteni, 21: 245, 1987.

imir T., Bankhurst A.D., Sibbitt W.L. Jr., The relative resistance of lymphokine activated killer cells to suppression by prostaglandins and corticosteroids, Prostaglandins Leukotrienes and Medicine, 28: 111, 1987.

Ming R.H., Atlaru D., Spellman C.W., imir T., Goodwin J.S., Strickland R.G., Peripheral blood mononuclear cell, interleukin-2 production, receptor generation and lymphokine activated cytotoxicity in inflamatory bowel disease, J. Clinical Immunology, 7: 59, 1987.

Bankhurst A.D., imir T., The mechanism involved in the activation of human natural killer cells by staphylococcal enterotoxin B, Cellular Immunology, 122: 108, 1989.

Sultan N., Turet S., imir T., A research on staphylococcal protein A, bacteriocin, DNAse and lactamases of methicillin resistant staphylococcus, Mikrobiyoloji Bulteni, 25: 138, 1991.

Sultan N., Turet S., imir T., Sensitivity of methicillin resistant staphylococcus to antibiotics, Mikrobiyoloji Bulteni, 25: 227, 1991.

Okur H., imir T., Immunity, Immunologic Inflammation and cellular and molecular aspects of hypersensitivity, in Fizyopatoloji, Ed.: N.Bor, Turkiye Klinikleri Yayınevi, 1991, pp. 131 - 172.

Anlar B., Serdaroğlu A., Okur H., Renda Y., imir T., Immune functions in children and adolescents in multiple sclerosis, Ann Neurol, 32:455, 1992.

Anlar B., Gucuyener K., Okur H., imir T., The effect of alpha-interferon on spontaneous cytotoxicity in subacute sclerosing panencephalitis, Ann Neurol, 32:449, 1992.

Anlar B., Gucuyener K., imir T., Yalaz K., Renda Y., Cimetidine as an immunomodulator in subacute sclerosing panencephalitis: a double blind, placebo-controlled study, Pediatr Infect Dis Jour, 12: 578, 1993.

Anlar B., Sungur A., Ruacan S., imir T., An indirect immunofluorescence test for the detection of acetylcholine receptor antibodies, Muscle & Nerve, 16: 1266, 1993.

Anlar B., Yalaz K., imir T., Turanlı G., The effect of Inosiplex in subacute sclerosıng panencephalitis: A clinical and laboratory study, Eur Neurol, 34: 44, 1994.

Onder M., Bozkurt M., Gurer M. A., Gulekon A., Sezgin P., imir T., Natural cellular cytotoxicity in Behçet's disease, The Journal of Dermatology, 21: 23, 1994.

Ozturk G., Erbas D., imir T., Bor N. M., Decreased NK activity in zinc deficient rats, General Pharmacology, 25 : 1499, 1994.

Aybay C., imir T., Okur H., The effect of omeprazole on human natural killer cell activity, General Pharmacology, 26 : 1413, 1995.

 Gulay Z., imir T, Anti-candidial activity of natural killer (NK) and lymphokine activated killer (LAK) lymphocytes in-vitro, Immunobiol, 195: 220, 1996.

Aybay C., imir T., Tumor necrosis factor (TNF) induction from Monocyte/macrophages by candida species, Immunobiol, 196: 363, 1996.

Aybay, C., Caglar, K., imir T., Sultan, N., Effect of staphylococcus epidermidis extracted slime substance on tumour necrosis factor (TNF) and interferon gamma (IFN g) production from human peripheral blood mononuclear cells, Microbiol Bull., 30 : 139, 1996.

Sin B, Mısırlıgil, Aybay C, Gurbuz L, imir T, Effect of allergen specific immunotherapy on natural killer cell (NK) activity, IgE, IFN-g levels and clinical response in patients with allergic rhinitis and asthma, J Invest Allergol & Clin Immunol, 6 : 341, 1996.

Li B, Rossman MD, imir T, Öner-Eyüboğlu AF, WaLea C, Biancaniello R, Carding SR, Disease-specific changes T cell repertoire and function in patients with pulmonary tuberculosis, J Immunol, 157 : 4222, 1996.

Turhan A., Mirshahidi S., Piskin K.A., Cıtak B., imir T., Effects of crude antigenic fractions (CAF) of L.major on NK cell cytotoxicity, IFN-g and IL-4 secretion from peripheric blood lymphocytes of unexposed individuals, Immunol.Lett., 55 : 115, 1997.

Turhan A., Piskin K.A., Emerk K., imir T., Defibrotide augments the anticandidial activity of NK cells, Gen. Pharmac., 28 : 733, 1997.

Yucesoy B., Turhan A., Ure M., imir T., Karakaya A., Effects of high-level exposure to lead on NK cell activity and T-lymphocyte functions in workers, Human and Exp.Toxic., 16 : 311, 1997.

Yucesoy B., Turhan A., Ure M., imir T., Karakaya A., Smiltaneous effects of lead and cadmium on NK cell activity and some phenotypic parameters, Immunopharm. Immunotox., 19 : 339, 1997.

Yucesoy B., Turhan A., Ure M., imir T., Karakaya A., Effects of occupational lead and cadmium exposure on some immunoregulatory cytokine levels in man, Toxicology, 123: 1, 1997.

Bilgihan K., Gurelik G., Okur H., Bilgihan A., Hasanreisoglu B., imir T., Aqueus transforming growth factor-beta-I levels in rabbit eyes after excimer laser photoablation, Ophthalmologica, 211 : 380, 1997.

Aybay C.,Yucel A., Taysi BN., Tarhan G., imir T., Effect of diphteria toxin on the cytotoxic activities of human natural killer (NK) and lymphokine activated killer (LAK) cells, Microbiol. Bull., 32: 115, 1998.

Aybay C., imir T., Comparison of the effects of Salmonella minesota Re595 lipopolisaccharide, lipid A and monophosphoryl lipid A on nitric oxide, TNF-alpha and IL-6 induction from RAW 264.7 macrophages, FEMS Immunology and Medical Microbiology, 22: 263, 1998.

Bolay H., Karabudak R., Aybay C., Candemir H., imir T., Kansu E., Alpha interferon treatment in myasthenia gravis, J Neuroimmunol., 82 : 109, 1998.

Anlar B., Ozdirim E., imir T., Lymphocyte acetylcholine receptors in childhood myasthenia, Muscle & Nerve, 21: 265, 1998.

Aybay B., Taysi, B.N., Tarhan G., imir T., Effect of Bordetella Pertussis filamentous haemagglutinin and pertussis toxin on cytokine (IF- g,IL-4,IL-6,IL-10, IL-12) induction from human perýpheral blood mononuclear cells, Microbiol. Bull., 32 : 65, 1998.

Mirshahidi S., Turhan A., Piskin K.A., imir T., Effects of some antigenic fractions of L-major on nitric oxide production and IL-12 secretion by murine peritoneal macrophages, Immunol. Letters, 60 : 189, 1998.

Li B., Bassiri H., Rossman M.D., Kramer P., Eyuboglu A.F-O., Sada E., imir T., Carding S.R., Involvement of the Fas/Fas-ligand Pathway in activation-induced cell death of mycobacteria-reactive human gd T cells: A mechanism for the loss of gd T cells in patients with pulmonary tuberculosis, J Immunol., 161: 1558, 1998.

Yucesoy B, Yucel, A, Erdem O, Burgaz S, imir T., Karakaya, AE, Karakaya A, Effects of occupational chronic co-exposure to n-hexane, toluen and methyl ethyl ketone on NK cell activity and some immunoregulatory cytokine levels in shoe workers, Human & Experimental Toxicology, 18: 541, 1999.

Karakaya A, Yucesoy B, Yucel, A, Erdem N, Ates I,Sabir HU, imir T., Proliferative response of peripheral blood lymphocytes and lymphocyte subpopulations in n-Hexane, toluen and methyl ethyl ketone co-exposed workers, Environmental Toxicology and Pharmacology, 8: 53, 1999.

Aybay C., imir T., Development of a rapid, single-step procedure using protein G affinity chromatography to deplete fetal calf serum of its IgG and to isolate murine IgG1 monoclonal antibodies from supernatants of hybridoma cells, Journal of Immunol.Methods, 233: 77, 2000.

Ozturk G, Erbas D, Gelir E, Gulekon A, imir T, Natural killer cell activity, serum immunoglobulins, complement proteins, and zinc levels in patients with psoriasis vulgaris, Immunological Investigations, 30: 181-190, 2001.

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[Canseven AG](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Canseven+AG%22%5BAuthor%5D), [Seyhan N](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Seyhan+N%22%5BAuthor%5D), [Mirshahidi S](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Mirshahidi+S%22%5BAuthor%5D), [Imir T](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Imir+T%22%5BAuthor%5D), Suppression of natural killer cell activity on Candida stellatoidea by a 50 Hz magnetic field, Electromagn Biol Med.;25: 79-85, 2006.

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Fidan I, Yuksel S, Imir T, Kalkanci A, Kustimur S, Ilhan MN, The effects of fluconazole and cytokines on human mononuclear cells. Mem Inst Oswaldo Cruz, 102: 127-131, 2007.

Fidan I, Yesilyurt E, Gurelik FC, Erdal B, Imir T, [Effects of recombinant interferon-gamma on cytokine secretion from monocyte-derived macrophages infected with Salmonella typhi.](http://www.ncbi.nlm.nih.gov/pubmed/17904635?ordinalpos=5&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Comp Immunol Microbiol Infect Dis. 31:467-475, 2008.

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