

## Prof. MAYDA GÜRSEL

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### International Researcher IDs

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### Education Information

Doctorate, University of London-The School of Pharmacy, Immunoloji, United Kingdom 1993 - 1995

### Research Areas

Health Sciences

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2016 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Moleküler Biyoloji Ve Genetik Bölümü, 2006 - Continues

### Advising Theses

GÜRSEL M., Characterization of leishmania RNA virus infected leishmania major exosomes and evaluation of the impact of cytosolic DNA sensing related pathways in L. Major infection, Doctorate, İ.Cem(Student), 2020

GÜRSEL M., The contribution of kinetoplast DNA to Leishmania major experimental infection and evaluation of Leishmania extracellular vesicle based vaccine against cutaneous Leishmaniasis in BALB/C mice, Doctorate, İ.Cihan(Student), 2019

GÜRSEL M., Characterization of intravenous immunoglobulin-mediated functional changes in innate immune cells, Postgraduate, B.Geçkin(Student), 2019

GÜRSEL M., Characterization of STING mediated innate immune sensing in the context of pathology, Postgraduate, H.ASENA(Student), 2018

GÜRSEL M., Immune modulatory effects of pediococcus pentosaceus derived membrane vesicles: Mechanism of action and therapeutic applications, Doctorate, E.ALPDÜNDAR(Student), 2018

GÜRSEL M., Effect of immunosuppressive oligodeoxynucleotide A151 on inflammasome activation pathways, Postgraduate, N.SÜRÜCÜ(Student), 2017

GÜRSEL M., Immunomodulatory activities of RNA species derived from commensal and pathogenic bacteria, Postgraduate, B.KAYAOĞLU(Student), 2017

GÜRSEL M., Vaccine adjuvant applications of cpg ODN nanorings and development of Leishmania extracellular vesicle based cutaneous leishmaniasis vaccine, Doctorate, B.GÜNGÖR(Student), 2017

GÜRSEL M., Characterisation of immune responses in type I interferon associated diseases, Postgraduate, E.GÜL(Student), 2016

GÜRSEL M., Differential activation of immune cells by commensal versus pathogen-derived bacterial DNA, Postgraduate, S.Güenalp(Student), 2015

ÖZEN C., GÜRSEL M., Peptidomic characterization and bioactivity screening of *Leiurus abduhbayrami* (Scorpiones:Buthidae) venom, Postgraduate, E.ERDEŞ(Student), 2015

GÜRSEL M., Differential activation of immune cells by commensal versus pathogen-derived DNA, Postgraduate, S.GÜNALP(Student), 2015

GÜRSEL M., ATR-FTIR evaluation of structural and functional changes on murine macrophage cells upon activation and suppression by immunotherapeutic oligodeoxynucleotides, Postgraduate, E.SPAHIÜ(Student), 2015

ÖZEN C., GÜRSEL M., Peptidomic characterization and bioactivity screening of *Leiurus abduhbayrami* (scorpiones: buthidae) venom /, Postgraduate, E.Erdeş(Student), 2015

GÜRSEL M., Differential activation of immune cells by commensal versus pathogen-derived bacterial RNA, Postgraduate, M.ÖZCAN(Student), 2014

GÜRSEL M., Immunotherapeutic applications of nucleic acid based TLR agonists and antagonists, Doctorate, F.CEM(Student), 2014

ÖZCENGİZ G., GÜRSEL M., A study on induction of minicell formation by FTSZ overproducing L-form *E. coli*, Postgraduate, İ.CEM(Student), 2014

GÜRSEL M., Immunomodulatory effects of commensal bacteria-derived membrane vesicles, Postgraduate, E.ALPDÜNDAR(Student), 2013

GÜRSEL M., Cyclic-di-GMP based immune stimulatory formulations as vaccine adjuvants, Postgraduate, S.YILDIZ(Student), 2013

GÜRSEL M., Determination of immune stimulatory properties of synthetic CpG oligodeoxynucleotide / cationic peptide complex, Postgraduate, B.Güngör(Student), 2012

GÜRSEL M., Determination of immune stimulatory properties of synthetic CpG oligodeoxynucleotide/cationic peptide complexes, Postgraduate, B.GÜNGÖR(Student), 2012

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **5,6-dimethylxanthenone-4-acetic acid (DMXAA), a partial STING agonist, competes for human STING activation**  
Temizoz B., Shibahara T., Hioki K., Hayashi T., Kobiyama K., Lee M. S. J., Surucu N., Sag E., Kumanogoh A., Yamamoto M., et al.  
Frontiers in Immunology, vol.15, 2024 (SCI-Expanded)
- II. **DOCK8 deficiency with hypereosinophilia and the syndrome of inappropriate antidiuretic hormone secretion during herpes infection**  
Yeşil A. M., KAYAOĞLU B., Gül E., Gönc N., Özön A., Tezcan İ., GÜRSEL M., ÇAĞDAŞ AYVAZ D. N.  
Turkish Journal of Pediatrics, vol.65, no.3, pp.536-541, 2023 (SCI-Expanded)
- III. **Expanding the Clinical and Immunological Phenotypes and Natural History of MALT1 Deficiency**  
Sefer A. P., Abolhassani H., Ober F., KAYAOĞLU B., Eltan S. B., Kara A., ERMAN B., Yilmaz N. S., Aydogmus C., Aydemir S., et al.  
JOURNAL OF CLINICAL IMMUNOLOGY, vol.42, no.3, pp.634-652, 2022 (SCI-Expanded)
- IV. **Low Density Granulocytes and Dysregulated Neutrophils Driving Autoinflammatory Manifestations in NEMO Deficiency**  
Yilmaz N. S., Eltan S. B., KAYAOĞLU B., Geckin B., Heredia R. J., Sefer A. P., KIYKIM A., Nain E., Kasap N., DOĞRU Ö., et al.  
JOURNAL OF CLINICAL IMMUNOLOGY, vol.42, no.3, pp.582-596, 2022 (SCI-Expanded)
- V. **The silent and dangerous inequity around access to COVID-19 testing: A call to action Comment**

- Batista C., Hotez P., Ben Amor Y., Kim J. H., Kaslow D., Lall B., Ergonul O., Figueroa J. P., GÜRSEL M., Hassanain M., et al.  
ECLINICALMEDICINE, vol.43, 2022 (SCI-Expanded)
- VI. **Development and preclinical evaluation of virus-like particle vaccine against COVID-19 infection**  
YILMAZ İ. C., İPEKOĞLU E. M., Bulbul A., Turay N., Yildirim M., Evcili I., Yilmaz N. S., Guvencli N., Aydin Y., Gungor B., et al.  
ALLERGY, vol.77, no.1, pp.258-270, 2022 (SCI-Expanded)
- VII. **COVID-19 Vaccine Inequity: High time to calibrate the global moral compass**  
GÜRSEL M.  
EUROPEAN JOURNAL OF IMMUNOLOGY, vol.51, no.12, pp.2705-2707, 2021 (SCI-Expanded)
- VIII. **Achieving global equity for COVID-19 vaccines: Stronger international partnerships and greater advocacy and solidarity are needed**  
Figueroa J. P., Hotez P. J., Batista C., Ben Amor Y., Ergonul O., Gilbert S., GÜRSEL M., Hassanain M., Kang G., Kaslow D. C., et al.  
PLOS MEDICINE, vol.18, no.9, 2021 (SCI-Expanded)
- IX. **Global public health security and justice for vaccines and therapeutics in the COVID-19 pandemic**  
Hotez P. J., Batista C., Ben Amor Y., Ergonul O., Figueroa J. P., Gilbert S., GÜRSEL M., Hassanain M., Kang G., Kaslow D. C., et al.  
ECLINICALMEDICINE, vol.39, 2021 (SCI-Expanded)
- X. **Operation Warp Speed: implications for global vaccine security**  
Kim J. H., Hotez P., Bottazzi M. E., Lall B., Sheahan T., Shoham S., Yadav P., Batista C., Ergonul O., GÜRSEL M., et al.  
LANCET GLOBAL HEALTH, vol.9, no.7, 2021 (SCI-Expanded)
- XI. **Urgent needs to accelerate the race for COVID-19 therapeutics**  
Batista C., Shoham S., Ergonul O., Hotez P., Bottazzi M. E., Figueroa P., Gilbert S., GÜRSEL M., Hassanain M., Kang G., et al.  
ECLINICALMEDICINE, vol.36, 2021 (SCI-Expanded)
- XII. **Beyond the job: A need for global coordination of pharmacovigilance for COVID-19 vaccine deployment Comment**  
Naniche D., Hotez P., Bottazzi M. E., Ergonul O., Figueroa J. P., Gilbert S., GÜRSEL M., Hassanain M., Kang G., Kaslow D., et al.  
ECLINICALMEDICINE, vol.36, 2021 (SCI-Expanded)
- XIII. **Stepwise Reversal of Immune Dysregulation Due to STAT1 Gain-of-Function Mutation Following Ruxolitinib Bridge Therapy and Transplantation**  
KAYAOĞLU B., Kasap N., Yilmaz N. S., Charbonnier L. M., Geckin B., Akcay A., Eltan S. B., Ozturk G., ÖZEN A. O., Karakoc-Aydiner E., et al.  
JOURNAL OF CLINICAL IMMUNOLOGY, vol.41, no.4, pp.769-779, 2021 (SCI-Expanded)
- XIV. **Correcting COVID-19 vaccine misinformation Lancet Commission on COVID-19 Vaccines and Therapeutics Task Force Members**  
Hotez P., Batista C., Ergonul O., Figueroa J. P., Gilbert S., GÜRSEL M., Hassanain M., Kang G., Kim J. H., Lall B., et al.  
ECLINICALMEDICINE, vol.33, 2021 (SCI-Expanded)
- XV. **Urgent needs of low-income and middle-income countries for COVID-19 vaccines and therapeutics**  
Figueroa J. P., Bottazzi M. E., Hotez P., Batista C., Ergonul O., Gilbert S., GÜRSEL M., Hassanain M., Kim J. H., Lall B., et al.  
LANCET, vol.397, no.10274, pp.562-564, 2021 (SCI-Expanded)
- XVI. **Dual-adjuvant effect of pH-sensitive liposomes loaded with STING and TLR9 agonists regress tumor development by enhancing Th1 immune response.**  
Kocabas B., Almacioglu K., Bulut E. A., Gucluler G., Tincer G., Bayik D., GÜRSEL M., GÜRSEL İ.  
Journal of controlled release : official journal of the Controlled Release Society, vol.328, pp.587-595, 2020 (SCI-Expanded)
- XVII. **Human Gut Commensal Membrane Vesicles Modulate Inflammation by Generating M2-like Macrophages and Myeloid-Derived Suppressor Cells**

- Bulut E. A., Kocabas B., Yazar V., Aykut G., GÜLER Ü., SALİH B., Yilmaz N. S., AYANOĞLU İ. C., Polat M. M., AKÇALI K. C., et al.  
JOURNAL OF IMMUNOLOGY, vol.205, no.10, pp.2707-2718, 2020 (SCI-Expanded)
- XVIII. Is global BCG vaccination-induced trained immunity relevant to the progression of SARS-CoV-2 pandemic?**  
GÜRSEL M., GÜRSEL İ.  
ALLERGY, vol.75, no.7, pp.1815-1819, 2020 (SCI-Expanded)
- XIX. Autoinflammation in addition to combined immunodeficiency: SLC29A3 gene defect**  
Cagdas D., Surucu N., TAN Ç., ÖZGÜL R. K., Akkaya-Ulum Y. Z., Aydinoglu A. T., Aytac S., GÜMRÜK F., Balci-Hayta B., Balci-Peynircioglu B., et al.  
MOLECULAR IMMUNOLOGY, vol.121, pp.28-37, 2020 (SCI-Expanded)
- XX. A suppressive oligodeoxynucleotide expressing TTAGGG motifs modulates cellular energetics through the mTOR signaling pathway**  
Yazar V., Kilic G., Bulut O., Yildirim T. C., Yagci F. C., Aykut G., Klinman D. M., GÜRSEL M., Gursel I.  
INTERNATIONAL IMMUNOLOGY, vol.32, no.1, pp.39-48, 2020 (SCI-Expanded)
- XXI. Type I IFN-related NETosis in ataxia telangiectasia and Artemis deficiency**  
Gul E., Sayar E. H., Gungor B., Eroglu F. K., Surucu N., Keleş S., Güner Ş. N., Findik S., Alpdundar E., Ayanoğlu İ. C., et al.  
JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, vol.142, pp.246-257, 2018 (SCI-Expanded)
- XXII. Encapsulation of two different TLR ligands into liposomes confer protective immunity and prevent tumor development**  
Bayyurt B., Tincer G., Almacioglu K., Alpdundar E., GÜRSEL M., GÜRSEL İ.  
Journal of Controlled Release, vol.247, pp.134-144, 2017 (SCI-Expanded)
- XXIII. Impaired toll like receptor-7 and 9 induced immune activation in chronic spinal cord injured patients contributes to immune dysfunction**  
Gucluler G., Adiguzel E., Gungor B., Kahraman T., GÜRSEL M., Yilmaz B., GÜRSEL İ.  
PLOS ONE, vol.12, no.2, 2017 (SCI-Expanded)
- XXIV. Circulating LL37 targets plasma extracellular vesicles to immune cells and intensifies Behcet's disease severity**  
Kahraman T., Gucluler G., ŞİMŞEK İ., Yagci F. C., Yildirim M., ÖZEN C., DİNÇ A., GÜRSEL M., Ikromzoda L., Sutlu T., et al.  
JOURNAL OF EXTRACELLULAR VESICLES, vol.6, 2017 (SCI-Expanded)
- XXV. Intestinal Microbiota in Patients with Spinal Cord Injury**  
Gungor B., Adiguzel E., Gürsel İ., Yilmaz B., Gürsel M.  
PLOS ONE, vol.11, 2016 (SCI-Expanded)
- XXVI. Enhanced immunostimulatory activity of cyclic dinucleotides on mouse cells when complexed with a cell-penetrating peptide or combined with CpG**  
Yildiz S., Alpdundar E., Gungor B., Kahraman T., Bayyurt B., GÜRSEL İ., GÜRSEL M.  
European Journal of Immunology, vol.45, no.4, pp.1170-1179, 2015 (SCI-Expanded)
- XXVII. Forging a potent vaccine adjuvant: CpG ODN/cationic peptide nanorings**  
Gungor B., Yagci F. C., GÜRSEL İ., GÜRSEL M.  
ONCOIMMUNOLOGY, vol.3, no.7, 2014 (SCI-Expanded)
- XXVIII. CpG ODN nanorings induce IFN $\alpha$  from plasmacytoid dendritic cells and demonstrate potent vaccine adjuvant activity**  
Gungor B., Yagci F. C., Tincer G., Bayyurt B., Alpdundar E., Yildiz S., Ozcan M., GÜRSEL İ., GÜRSEL M.  
Science Translational Medicine, vol.6, no.235, 2014 (SCI-Expanded)
- XXIX. Anticarcinogenic Effects of the Ethanolic Extract of Salix aegyptiaca in Colon Cancer Cells: Involvement of Akt/PKB and MAPK Pathways**  
Enayat S., Ceyhan M. S., BAŞARAN A. A., GÜRSEL M., BANERJEE S.  
NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL, vol.65, no.7, pp.1045-1058, 2013 (SCI-Expanded)
- XXX. Plasmacytoid Dendritic Cell Response to CpG ODN Correlates with CXCL16 Expression and Is**

### **Inhibited by ox-LDL**

GÜRSEL M., Klinman D. M., GÜRSEL İ.

MEDIATORS OF INFLAMMATION, 2013 (SCI-Expanded)

- XXXI. **Activation of type I interferon-dependent genes characterizes the "core response" induced by CpG DNA.**  
Steinhagen F., Meyer C., Tross D., Gursel M., Maeda T., Klaschik S., Klinman D.  
Journal of leukocyte biology, vol.92, pp.775-85, 2012 (SCI-Expanded)
- XXXII. **Differential immune activation following encapsulation of immunostimulatory CpG oligodeoxynucleotide in nanoliposomes.**  
Erikçi E., Gursel M., Gürsel I.  
Biomaterials, vol.32, pp.1715-23, 2011 (SCI-Expanded)
- XXXIII. **Mammalian telomeric DNA suppresses endotoxin-induced uveitis.**  
Yagci F., Aslan O., Gursel M., Tincer G., Ozdamar Y., Karatepe K., Akcali K., Gursel I.  
The Journal of biological chemistry, vol.285, pp.28806-11, 2010 (SCI-Expanded)
- XXXIV. **Immune regulatory roles of microparticles in autoimmune and allergic diseases**  
Kahraman T., Simsek I., GÜRSEL M., Hakan E., Pay S., Dinc A., Gay S., Kocabas C., Ozcan C., Civelek E., et al.  
JOURNAL OF IMMUNOLOGY, vol.184, 2010 (SCI-Expanded)
- XXXV. **Immunoregulatory Activities of Self-Nanoparticle Forming CpG ODN**  
GÜRSEL M., Tincer G., Karatepe K., GÜRSEL M.  
JOURNAL OF IMMUNOLOGY, vol.184, 2010 (SCI-Expanded)
- XXXVI. **Rapid differentiation of MSC into adipocytes and osteocytes is facilitated by Toll-Like receptor engagement**  
Tas I., Tokcaer-Keskin Z., Ayhan F., GÜRSEL M., Akcali K., GÜRSEL M.  
JOURNAL OF IMMUNOLOGY, vol.184, 2010 (SCI-Expanded)
- XXXVII. **CXCL16 influences the nature and specificity of CpG-induced immune activation.**  
Gursel M., Gursel I., Mostowski H., Klinman D.  
Journal of immunology (Baltimore, Md. : 1950), vol.177, pp.1575-80, 2006 (SCI-Expanded)
- XXXVIII. **Effect of plasmid backbone modification by different human CpG motifs on the immunogenicity of DNA vaccine vectors.**  
Coban C., Ishii K., Gursel M., Klinman D., Kumar N.  
Journal of leukocyte biology, vol.78, pp.647-55, 2005 (SCI-Expanded)
- XXXIX. **Suppressive oligodeoxynucleotides protect mice from lethal endotoxic shock.**  
Shirota H., Gursel I., Gursel M., Klinman D.  
Journal of immunology (Baltimore, Md. : 1950), vol.174, pp.4579-83, 2005 (SCI-Expanded)
- XL. **CpG RNA: identification of novel single-stranded RNA that stimulates human CD14+CD11c+ monocytes.**  
Sugiyama T., Gursel M., Takeshita F., Coban C., Conover J., Kaisho T., Akira S., Klinman D., Ishii K.  
Journal of immunology (Baltimore, Md. : 1950), vol.174, pp.2273-9, 2005 (SCI-Expanded)
- XLI. **CpG oligodeoxynucleotides enhance neonatal resistance to Listeria infection.**  
Ito S., Ishii K., Gursel M., Shirotra H., Ihata A., Klinman D.  
Journal of immunology (Baltimore, Md. : 1950), vol.174, pp.777-82, 2005 (SCI-Expanded)
- XLII. **Suppressive oligodeoxynucleotides inhibit Th1 differentiation by blocking IFN-gamma- and IL-12-mediated signaling.**  
Shirota H., Gursel M., Klinman D.  
Journal of immunology (Baltimore, Md. : 1950), vol.173, pp.5002-7, 2004 (SCI-Expanded)
- XLIII. **Immunotherapeutic utility of stimulatory and suppressive oligodeoxynucleotides.**  
Ishii K., Gursel I., Gursel M., Klinman D.  
Current opinion in molecular therapeutics, vol.6, pp.166-74, 2004 (SCI-Expanded)
- XLIV. **Signal transduction pathways mediated by the interaction of CpG DNA with Toll-like receptor 9.**  
Takeshita F., Gursel I., Ishii K., Suzuki K., Gursel M., Klinman D.  
Seminars in immunology, vol.16, pp.17-22, 2004 (SCI-Expanded)

- XLV. Regulation of CpG-induced immune activation by suppressive oligodeoxynucleotides.**  
Klinman D., Zeuner R., Yamada H., Gursel M., Currie D., Gursel I.  
Annals of the New York Academy of Sciences, vol.1002, pp.112-23, 2003 (SCI-Expanded)
- XLVI. Repetitive elements in mammalian telomeres suppress bacterial DNA-induced immune activation.**  
Gursel I., Gursel M., Yamada H., Ishii K., Takeshita F., Klinman D.  
Journal of immunology (Baltimore, Md. : 1950), vol.171, pp.1393-400, 2003 (SCI-Expanded)
- XLVII. Influence of stimulatory and suppressive DNA motifs on host susceptibility to inflammatory arthritis.**  
Zeuner R., Verthelyi D., Gursel M., Ishii K., Klinman D.  
Arthritis and rheumatism, vol.48, pp.1701-7, 2003 (SCI-Expanded)
- XLVIII. CpG oligodeoxynucleotides protect normal and SIV-infected macaques from Leishmania infection.**  
Verthelyi D., Gursel M., Kenney R., Lifson J., Liu S., Mican J., Klinman D.  
Journal of immunology (Baltimore, Md. : 1950), vol.170, pp.4717-23, 2003 (SCI-Expanded)
- XLIX. Response of peripheral blood mononuclear cells from lupus patients to stimulation by CpG oligodeoxynucleotides.**  
Zeuner R., Klinman D., Illei G., Yarboro C., Ishii K., Gursel M., Verthelyi D.  
Rheumatology (Oxford, England), vol.42, pp.563-9, 2003 (SCI-Expanded)
- L. Effect of suppressive DNA on CpG-induced immune activation.**  
Yamada H., Gursel I., Takeshita F., Conover J., Ishii K., Gursel M., Takeshita S., Klinman D.  
Journal of immunology (Baltimore, Md. : 1950), vol.169, pp.5590-4, 2002 (SCI-Expanded)
- LI. CpG oligodeoxynucleotides induce human monocytes to mature into functional dendritic cells.**  
Gursel M., Verthelyi D., Klinman D.  
European journal of immunology, vol.32, pp.2617-22, 2002 (SCI-Expanded)
- LII. Potential role of phosphatidylinositol 3 kinase, rather than DNA-dependent protein kinase, in CpG DNA-induced immune activation.**  
Ishii K., Takeshita F., Gursel I., Gursel M., Conover J., Nussenzweig A., Klinman D.  
The Journal of experimental medicine, vol.196, pp.269-74, 2002 (SCI-Expanded)
- LIII. CpG DNA: recognition by and activation of monocytes.**  
Klinman D., Takeshita F., Gursel I., Leifer C., Ishii K., Verthelyi D., Gursel M.  
Microbes and infection, vol.4, pp.897-901, 2002 (SCI-Expanded)
- LIV. Differential and competitive activation of human immune cells by distinct classes of CpG oligodeoxynucleotide**  
GÜRSEL M., Verthelyi D., Gursel I., Ishii K., Klinman D.  
JOURNAL OF LEUKOCYTE BIOLOGY, vol.71, no.5, pp.813-820, 2002 (SCI-Expanded)
- LV. Cutting edge: Role of toll-like receptor 9 in CpG DNA-induced activation of human cells**  
Takeshita F., Leifer C., Gursel I., Ishii K., Takeshita S., Gursel M., Klinman D.  
JOURNAL OF IMMUNOLOGY, vol.167, no.7, pp.3555-3558, 2001 (SCI-Expanded)
- LVI. Sterically stabilized cationic liposomes improve the uptake and immunostimulatory activity of CpG oligonucleotides**  
Gursel I., Gursel M., Ishii K., Klinman D.  
JOURNAL OF IMMUNOLOGY, vol.167, no.6, pp.3324-3328, 2001 (SCI-Expanded)
- LVII. Human peripheral blood cells differentially recognize and respond to two distinct CpG motifs**  
Verthelyi D., Ishii K., Gursel M., Takeshita F., Klinman D.  
JOURNAL OF IMMUNOLOGY, vol.166, no.4, pp.2372-2377, 2001 (SCI-Expanded)
- LVIII. Activation of the innate immune system by CpG oligodeoxynucleotides: immunoprotective activity and safety**  
Klinman D., Kamstrup S., Verthelyi D., Gursel I., Ishii K., Takeshita F., Gursel M.  
SPRINGER SEMINARS IN IMMUNOPATHOLOGY, vol.22, pp.173-183, 2000 (SCI-Expanded)
- LIX. Immunotherapeutic applications of CpG-containing oligodeoxynucleotides**  
Klinman D., Ishii K., Gursel M., Gursel I., Takeshita S., Takeshita F.  
DRUG NEWS & PERSPECTIVES, vol.13, no.5, pp.289-296, 2000 (SCI-Expanded)
- LX. Immunoadjuvant action of plasmid DNA in liposomes**

Gursel M., Tunca S., Ozkan M., Ozcengiz G., Alaeddinoglu G.

VACCINE, vol.17, pp.1376-1383, 1999 (SCI-Expanded)

- LXI. **The immunological co-adjuvant action of liposomal interleukin-2: The role of mode of localisation of the cytokine and antigen in the vesicles**  
Gursel M., Gregoriadis G.  
JOURNAL OF DRUG TARGETING, vol.5, no.2, pp.93-98, 1998 (SCI-Expanded)
- LXII. **Interleukin-15 acts as an immunological co-adjuvant for liposomal antigen in vivo**  
Gursel M., Gregoriadis G.  
IMMUNOLOGY LETTERS, vol.55, no.3, pp.161-165, 1997 (SCI-Expanded)
- LXIII. **Liposomes as immunological adjuvants and vaccine carriers**  
Gregoriadis G., Gursel I., GÜRSEL M., McCormack B.  
JOURNAL OF CONTROLLED RELEASE, vol.41, pp.49-56, 1996 (SCI-Expanded)
- LXIV. **INFLUENCE OF MEMBRANE-COMPONENTS ON THE STABILITY AND DRUG-RELEASE PROPERTIES OF REVERSE-PHASE EVAPORATION VESICLES (REVS) - LIGHT-SENSITIVE ALL-TRANS RETINAL, NEGATIVELY CHARGED PHOSPHOLIPID DICETYLPHOSPHATE AND CHOLESTEROL**  
GURSEL M., HASIRCI V.  
JOURNAL OF MICROENCAPSULATION, vol.12, no.6, pp.661-669, 1995 (SCI-Expanded)
- LXV. **A NONIONIC SURFACTANT VESICLE-IN-WATER-IN-OIL (V/W/O) SYSTEM - POTENTIAL USES IN DRUG AND VACCINE DELIVERY**  
YOSHIOKA T., SKALKO N., GURSEL M., GREGORIADIS G., FLORENCE A.  
JOURNAL OF DRUG TARGETING, vol.2, no.6, pp.533-539, 1995 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Could Individuals From Countries Using BCG Vaccination Be Resistant to SARS-COV-2 Induced Infections?**  
AYANOĞLU İ. C., İPEKOĞLU E. M., Yazar V., Yilmaz I. C., GÜRSEL M., GÜRSEL M.  
TURKISH JOURNAL OF IMMUNOLOGY, vol.8, no.1, pp.29-36, 2020 (ESCI)
- II. **Development of CpG ODN Based Vaccine Adjuvant Formulations.**  
Gursel M., Gursel I.  
Methods in molecular biology (Clifton, N.J.), vol.1404, pp.289-98, 2016 (Scopus)
- III. **Biological properties of extracellular vesicles and their physiological functions**  
Yanez-Mo M., Siljander P. R. -, Andreu Z., Zavec A. B., Borrás F. E., Buzas E. I., Buzas K., Casal E., Cappello F., Carvalho J., et al.  
JOURNAL OF EXTRACELLULAR VESICLES, vol.4, 2015 (ESCI)
- IV. **Interleukin-15 acts as an immunological co-adjuvant for liposomal antigen in vivo**  
GÜRSEL M., Gregoriadis G.  
Proceedings of the Controlled Release Society, no.24, pp.1047-1048, 1997 (Scopus)
- V. **Immuno-adjvant action of liposomes containing interleukin-2 as a co-adjvant**  
Gursel M., Gregoriadis G.  
Proceedings of the Controlled Release Society, no.22, pp.572-573, 1995 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Role of cytosolic innate immune sensing pathways in Leishmania major infection**  
Yilmaz I. C., Gursel M.  
17th International Congress of Immunology of the International-Union-of-Immunological-Societies (IUIS), Beijing, China, 19 - 23 October 2019, vol.49, pp.1202
- II. **Functional analysis of inflammation associated parameters in a case of NEMO deficiency before and**

## after HSCT

Surucu N., Kayaoglu B., Geckin B., Ayanoglu I. C., Eltan S. B., Kasap N., Sozeri B., Kiykim A., Karakoc-Aydiner E., Ozen A., et al.

17th International Congress of Immunology of the International-Union-of-Immunological-Societies (IUIS), Beijing, China, 19 - 23 October 2019, vol.49, pp.1232-1233

- III. **Evaluation of fetomaternal microchimeric cell potential on maternal wound healing by creating an amniotic fluid environment in a randomized-controlled murine model – postulating an overlooked paradigm on maternal wounds**  
ÖZER K., BULUT Ö., ATAN O., ERDOĞAN OĞUZ A. S., KOÇER R. G., GÜRSEL M., TERZİOĞLU A., GÜRSEL İ.  
10th Anniversary of the European Plastic Surgery Research Council (EPSRC), Hamburg, Germany, 23 - 25 August 2018
- IV. **Impaired Toll Like Receptor-7 and 9 Induced Immune Activation in Chronic Spinal Cord Injured Patients Contributes to Immune Dysfunction**  
GÜÇLÜLER G., ADIGÜZEL E., GÜNGÖR B., KAHRAMAN T., GÜRSEL M., YILMAZ B., GÜRSEL İ.  
26. ULUSAL FİZİKSEL TIP ve REHABILITASYON KONGRESİ, Antalya, Turkey, 25 April 2017
- V. **Characterization of L. tropica secreted exosomes and development of exosome-based preventive vaccine against L. tropica induced cutaneous leishmaniasis**  
Gungor B., AYANOĞLU İ. C., Konig T. G., ÖZBEL Y., ÖZBİLGİN A., GİRİNKARDEŞLER N., TÖZ S., GÜRSEL İ., GÜRSEL M.  
International Congress of Immunology (ICI), Melbourne, Australia, 21 - 26 August 2016, vol.46, pp.1218
- VI. **Type I interferon associated immune responses In STING associated vasculopathy with onset in infancy (SAVI) patients**  
Gul E., Eroglu K. F., Surucu N., Yakicier C., GÜRSEL İ., ÖZEN S., GÜRSEL M.  
International Congress of Immunology (ICI), Melbourne, Australia, 21 - 26 August 2016, vol.46, pp.904
- VII. **REVERSING THE PROGRESS OF LIVER FIBROSIS USING MEMBRANE VESICLES SECRETED FROM COMMENSAL BACTERIA**  
Aydin M. M., Alpdundar E., GÜRSEL M., AKÇALI K. C.  
49th Annual International Liver Congress of the European-Association-for-the-Study-of-the-Liver, London, Canada, 9 - 13 April 2014, vol.60
- VIII. **CXCL16 influences the nature and specificity of CpG DNA-induced immune activation**  
GÜRSEL M., GÜRSEL M., Klinman D. M.  
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.67
- IX. **Immunotherapeutic applications of CpG ODN**  
GÜRSEL M., GÜRSEL M., Klinman D. M.  
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.68
- X. **The immunological co-adjuvant action of liposomal interleukin-15**  
GÜRSEL M., Gregoriadis G.  
5th NATO Advanced Studies Institute Workshop on Vaccine Design - The Role of Cytokine Networks, CAPE SOUNION BEACH, Greece, 24 June - 05 July 1996, vol.293, pp.175-180
- XI. **Interleukin-2 as a Co-adjuvant for liposomal tetanus toxoid**  
GÜRSEL M., Gregoriadis G.  
NATO Advanced Study Institute on Vaccines - New Generation Immunological Adjuvants, CAPE SOUNION, Greece, 24 June - 05 July 1994, vol.282, pp.45-50

## Supported Projects

GÜRSEL M., Project Supported by Higher Education Institutions, SARSCoV2 yapısal yapısız olmayan ve aksesuar proteinlerinin makrofaj enflamasyon aktivasyonu üzerine etkilerinin incelenmesi, 2021 - 2022



GÜRSEL M., SÜRÜCÜ N., Project Supported by Higher Education Institutions, Sentetik ODN A151 ile NF-kB sinyalizasyon yolağının baskılanması ve mekanizma önerisi, 2020 - 2021

ERSON BENSAN A. E., KİRİŞ E., MUYAN M., GÜRSEL M., TERZİ ÇİZMECİOĞLU N., BANERJEE S., Project Supported by Higher Education Institutions, Meme dokusunun gelişim aşamalarının APA açısından analizi, 2018 - 2019

GÜRSEL M., Project Supported by Higher Education Institutions, İNSAN MİKROBİYOMU KÖKENLİ MEMBRAN KESEÇİKLERİNİN İMMÜN MODÜLATÖR ETKİLERİ: ETKİ MEKANİZMASI VE TERAPÖTİK UYGULAMALAR, 2017 - 2017

GÜRSEL M., Project Supported by Higher Education Institutions, TİP-I İNTERFERON İLİŞKİLİ HASTALIKLARDA İMMÜN PATOLOJİYE NEDEN OLAN YOLAKLARIN KARAKTERİZASYONU, 2017 - 2017

GÜRSEL M., Project Supported by Higher Education Institutions, LEİSHMANİA KINETOPLAST DNA'SININ BAĞIŞIKLIK SİSTEMİ ÜZERİNDEKİ DÜZENLEYİCİ ETKİSİ, 2017 - 2017

GÜRSEL M., Project Supported by Higher Education Institutions, İMMÜN BASKILAYICI SENTETİK OLİGODEOKSİNÜKLEOTİT A151'İN ÇEŞİTLİ İNFLAMAZON KOMKLEKSLERİ ÜZERİNDEKİ İMMÜN BASKILATICI ETKİLERİ, 2017 - 2017

GÜRSEL M., Project Supported by Higher Education Institutions, HÜCRE İÇİ DNA SENSÖRLERİNİN SİNYAL İLETİM YOLAKLARININ ÇALIŞILMASI AMACIYLA in Vitro STABİL HÜCRE HATTI OLUŞTURULMASI, 2017 - 2017

GÖZEN A. G., BEKLİOĞLU M., KEPENEK E. Ş., İZGÜ K. F., GÜNDÜZ U., GÜRSEL M., DOĞAN M., ÖZCENGİZ G., BİLGİN C. C., ÖNDE S., Project Supported by Higher Education Institutions, Kurşun ve Kadmiyum Ağır Metallerinin Yüksek Derişimlerine alıştırılmış Çevresel Bakterilerde Maruziyet Altındaki Fizyolojik Uyumlamanın Moleküler Kökenleri, 2016 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜRSEL M., Project Supported by Higher Education Institutions, SPINAL KORD YARALANMALI (SKY) BİREYLERDE BARSAK FLORASININ TANIMLANMASI, 2013 - 2014

GÖZEN A. G., ÖKTEM H. A., BUCAK T., COPPENS J. E. P., KALVENAS J. E., İZGÜ K. F., BEKLİOĞLU M., BİRAND ÖZSOY A. C.,

GÜNDÜZ U., GÜRSEL M., et al., Project Supported by Higher Education Institutions, Sucul biofilm bakterilerinin arsenik, nikel ve kadmiyum dirençlerinin belirlenmesi ve moleküler karakterizasyonu, 2013 - 2014

GÜRSEL M., GÜNGÖR B., Project Supported by Higher Education Institutions, TÜMÖRE YÖNLENDİRİLMİŞ CpG OLİGODEOKSİNÜKLEOTİD /KATYONİK PEPTİD KOMPLEKSLERİNİN TERAPATİK ÖZELLİKLERİNİN BELİRLENMESİ, 2013 - 2013

GÜRSEL M., ALPDÜNDAR E., Project Supported by Higher Education Institutions, MİCROBİYAL HÜCRE KÖKENLİ SALGI KESECİKLERİNİN İMMUNOMODÜLATÖR ETKİLERİ, 2013 - 2013

GÜRSEL M., YILDIZ S., Project Supported by Higher Education Institutions, METAL-ORGANİK KOORDİNASYON NANOPARÇACIKLARIN IMMUN MODULATOR ETKİLERİ, 2013 - 2013

GÜRSEL M., Project Supported by Higher Education Institutions, Rekombinant Protein Antijenlerin Ve Yeni Tip Adjuvantların Aşı Uygulama Çalışmalarında Denenmesi, 2012 - 2012

GÜRSEL M., Project Supported by Higher Education Institutions, İki Farklı Tip Tlr9 Agonisti İle Uyarılan Hücrelerde Etkinleşen Sinyal İletim Yolakla, 2011 - 2011

## Metrics

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