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Education Information

Doctorate, Gazi University, Tıp Fakültesi, Farmakoloji, Turkey 1991 - 2000

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Histoloji Ve Embriyoloji Ana Bilim Dalı, Turkey 1993 - 1997

Undergraduate, Gazi University, Tıp Fakültesi, Turkey 1986 - 1991

Foreign Languages

English, C1 Advanced

French, C1 Advanced

Dissertations

Doctorate, İzole Perfüze Kobay Kalbinde Digoksinle Oluşturulan Aritmiye Endotel Kaynaklı Faktörlerin Rolü, Gazi Üniversitesi, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2000

Expertise In Medicine, Hacettepe University, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 1997

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Histology and Embryology

Academic Titles / Tasks

Professor, Hacettepe University, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 2010 - Continues

Associate Professor, Hacettepe University, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 2003 - 2010

Assistant Professor, Hacettepe University, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 1998 - 2003

Advising Theses

Özcan A., Korkusuz P., pGITRL aktarılan mezenkimal kök hücrelerin küçük hücreli akciğer kanserine in vitro etkisi ve altın nanopartiküllerle işaretlenmesi, Doctorate, Ç.ZÜBEYDE(Student), 2015
KORKUSUZ F., KORKUSUZ P., Role of TNF-alpha in skeletal muscle atrophy in ovariectomized rats: An experimental functional, histological and molecular biology study, Postgraduate, S.DAĞDEVİREN(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Allogeneic bone marrow mesenchymal stem cell-derived exosomes alleviate human hypoxic AKI-on-a-Chip within a tight treatment window**
Çam S. B., Çiftci E., Gürbüz N., ALTUN B., KORKUSUZ P.
Stem Cell Research and Therapy, vol.15, no.1, 2024 (SCI-Expanded)
- II. **Clinic-oriented injectable smart material for the treatment of diabetic wounds: Coordinating the release of GM-CSF and VEGF**
Kinali H., KALAYCIOĞLU G. D., Boyacioglu O., KORKUSUZ P., AYDOĞAN N., VARGEL İ.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 2024 (SCI-Expanded)
- III. **Design of poly(vinyl pyrrolidone) and poly(ethylene glycol) microneedle arrays for delivering glycosaminoglycan, chondroitin sulfate, and hyaluronic acid**
Choupani A., Temucin E. S., Ciftci E., BAKAN F., Camic B. T., Ozkoc G., SEZEN M., KORKUSUZ P., KORKUSUZ F., Bediz B.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, 2024 (SCI-Expanded)
- IV. **The Evolutionary Route of in vitro Human Spermatogenesis: What is the Next Destination?**
Gizer M., Onen S., KORKUSUZ P.
STEM CELL REVIEWS AND REPORTS, no.6, pp.1406-1419, 2024 (SCI-Expanded)
- V. **Dual Strategy with Adipose-Derived Stem Cells and L-arginine Recovered Cavernal Functions in a Rat Model of Radical Prostatectomy**
Yilmaz-Oral D., Sezen S. F., Turkcan D., ASKER H., Kaya-Sezginer E., KIRLANGIÇ Ö. F., Kopru C. Z., Elci M. P., Ozen F. Z., KORKUSUZ P., et al.
Stem Cells and Development, vol.33, no.1-2, pp.43-53, 2024 (SCI-Expanded)
- VI. **A pumpless monolayer microfluidic device based on mesenchymal stem cell-conditioned medium promotes neonatal mouse in vitro spermatogenesis**
Önen S., Atik A. C., Gizer M., KÖSE S., YAMAN M. Ö., KÜLAH H., KORKUSUZ P.
Stem Cell Research and Therapy, vol.14, no.1, 2023 (SCI-Expanded)
- VII. **Adrenomedullin has no effect on segmental bone defect healing but increases bone mineral density in rat model**
Kaymakoglu M., Ciftci E., KORKUSUZ P., Ozdemir E., Erden M. E., TURHAN E.
Acta Orthopaedica et Traumatologica Turcica, vol.57, no.5, pp.221-228, 2023 (SCI-Expanded)
- VIII. **Human periodontal ligament stem cells-derived exosomes-loaded hybrid hydrogel enhances the calvarial defect regeneration in middle-age rats**
Isik M., VARGEL İ., ÖZGÜR E., Cam S. B., KORKUSUZ P., EMREGÜL E., ODABAŞ S., DERKUŞ B.
Materials Today Communications, vol.36, 2023 (SCI-Expanded)
- IX. **Topical Intranasal Insulin Enhances Healing of Nasal Mucosa: An Experimental Animal Study**
KÜLEKÇİ M. Ç., ÖZER S., Onen S., KORKUSUZ P., YILMAZ T.
AMERICAN JOURNAL OF RHINOLOGY & ALLERGY, vol.37, no.3, pp.284-290, 2023 (SCI-Expanded)
- X. **Detection of spermatogonial stem/progenitor cells in prepubertal mouse testis with deep learning**
Kahveci B., Önen S., AKAL F., KORKUSUZ P.
Journal of Assisted Reproduction and Genetics, vol.40, no.5, pp.1187-1195, 2023 (SCI-Expanded)
- XI. **Characterization of serum extracellular vesicles and their differential level of miR-197-3p in familial Mediterranean fever patients**
Tavukcuoglu Z., AKKAYA ULUM Z. Y., YERSAL N., Horzum U., AKBABA T. H., KARADAĞ Ö., ESENDAĞLI G., KORKUSUZ P., ÖZEN S., Balci-Peynircioglu B.
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- XII. **CB65 and novel CB65 liposomal system suppress MG63 and Saos-2 osteosarcoma cell growth in vitro**
Zorba B. I., Boyacıoğlu Ö., Çağlayan T., REÇBER T., NEMUTLU E., EROĞLU İ., KORKUSUZ P.
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- XIII. **Comparison of total anastomosis time between four different combinations of suturing and knot tying techniques in microsurgical anastomosis**
Sert G., Aksoyler D., Kara M., Bolletta A., Losco L., Cam S. B., KORKUSUZ P., Chen H.
JOURNAL OF PLASTIC SURGERY AND HAND SURGERY, vol.57, no.1-6, pp.240-246, 2023 (SCI-Expanded)
- XIV. **Comparative analysis of magnetically activated cell sorting and ultracentrifugation methods for exosome isolation**
Ciftci E., Bozbeyoglu N., Gursel I., KORKUSUZ F., Bakan Misirlioglu F., KORKUSUZ P.
PloS one, vol.18, no.2, 2023 (SCI-Expanded)
- XV. **Thioredoxin System and miR-21, miR-23a/b and let-7a as Potential Biomarkers for Brain Tumor Progression: Preliminary Case Data**
Kılıç N., Boyacıoğlu Ö., Saltoğlu G. T., Bulduk E. B., KURT G., KORKUSUZ P.
World Neurosurgery, vol.167, 2022 (SCI-Expanded)
- XVI. **A sensitive nanocomposite design via polydopamine mediated Au and Ag nanoparticles: Voltammetric assay for dopamine in biological samples**
KARATAŞ E., Ozden D. S., YILMAZ M., YAZAN Z., Piskin E.
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- XVII. **Vancomycin Containing PDLLA and PLGA/beta-TCP Inhibit Biofilm Formation but Do Not Stimulate Osteogenic Transformation of Human Mesenchymal Stem Cells**
Kankilic B., Bayramli E., KORKUSUZ P., EROĞLU H., ŞENER B., MUTLU P., KORKUSUZ F.
FRONTIERS IN SURGERY, vol.9, 2022 (SCI-Expanded)
- XVIII. **Mesenchymal stem cells promote spermatogonial stem/progenitor cell pool and spermatogenesis in neonatal mice in vitro**
Onen S., Kose S., YERSAL N., KORKUSUZ P.
SCIENTIFIC REPORTS, vol.12, no.1, 2022 (SCI-Expanded)
- XIX. **Human laryngeal squamous cell carcinoma cell line release of endogenous anandamide and 2-arachidonoylglycerol, and their antiproliferative effect via exogenous supplementation: an in vitro study**
Onay O., Kose S., SÜTAY SÜSLÜ N., KORKUSUZ P., NEMUTLU E., Aydın C., Hosal S.
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- XX. **Effect of mesenchymal stem cells therapy in experimental kaolin induced syringomyelia model.**
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- XXI. **Development and preclinical evaluation of virus-like particle vaccine against COVID-19 infection**
Yilmaz I. C., İPEKOĞLU E. M., Bulbul A., Turay N., Yildirim M., Evcili I., Yilmaz N. S., Guvencli N., Aydın Y., Gungor B., et al.
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- XXII. **Boron Nano-hydroxyapatite Composite Increases the Bone Regeneration of Ovariectomized Rabbit Femurs**
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Biological Trace Element Research, vol.200, no.1, pp.183-196, 2022 (SCI-Expanded)
- XXIII. **Therapeutic efficacy and gastrointestinal biodistribution of polycationic nanoparticles for oral camptothecin delivery in early and late-stage colorectal tumor-bearing animal model**
Unal S., ÖZTÜRK S. C., BİLGİÇ E., Yanik H., KORKUSUZ P., AKTAŞ Y., Benito J. M., ESENDAĞLI G., BİLENSOY E.
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol.169, pp.168-177, 2021 (SCI-Expanded)
- XXIV. **Circulating extracellular vesicles of patients with steroid-sensitive nephrotic syndrome have higher RAC1 and induce recapitulation of nephrotic syndrome phenotype in podocytes**

Eroglu F. K., Yazar V., GÜLER Ü., Yildirim M., Yildirim T., Gungor T., Celikkaya E., Karakaya D., Turay N., Dede E. C., et al.

AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY, vol.321, no.5, 2021 (SCI-Expanded)

- XXV. **Reduced mitochondrial fission and impaired energy metabolism in human primary skeletal muscle cells of Megaconial Congenital Muscular Dystrophy**
AKSU MENGEŞ E., Eylem C. C., NEMUTLU E., Gizer M., KORKUSUZ P., Topaloglu H., TALİM B., Balci-Hayta B.
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)
- XXVI. **Effect of sterilization methods on the mechanical stability and extracellular matrix constituents of decellularized brain tissues**
Yaldiz B., Saglam-Metiner P., Cam S. B., KORKUSUZ P., YEŞİL ÇELİKTAŞ Ö.
JOURNAL OF SUPERCRITICAL FLUIDS, vol.175, 2021 (SCI-Expanded)
- XXVII. **Development, characterization, and hematopoietic differentiation of Griscelli syndrome type 2 induced pluripotent stem cells.**
Güney-Esken G., Erol Ö. D., Pervin B., Gürhan Sevinç G., Önder T., Bilgiç E., Korkusuz P., Günel-Özcan A., Uçkan-Çetinkaya D., Aerts-Kaya F. S. F.
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- XXVIII. **A novel nano-hydroxyapatite/synthetic polymer/bone morphogenetic protein-2 composite for efficient bone regeneration.**
Bal Z., Korkusuz F., Ishiguro H., Okada R., Kushioka J., Chijimatsu R., Kodama J., Tateiwa D., Ukon Y., Nakagawa S., et al.
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- XXIX. **Knockout of zebrafish desmin genes does not cause skeletal muscle degeneration but alters calcium flux.**
Kayman Kürekçi G., Kural Mangit E., Koyunlar C., Unsal S., Saglam B., Ergin B., Gizer M., Uyanik I., Boustanabadimaralan Düz N., Korkusuz P., et al.
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- XXX. **ACPA decreases non-small cell lung cancer line growth through Akt/PI3K and JNK pathways in vitro.**
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- XXXI. **Chitosan Channels Stuffed with Mesenchyme Originated Stem/Progenitor Cells for Renovate Axonal Regeneration in Complete Spinal Cord Transection.**
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- XXXII. **Stem Cell Applications in Lysosomal Storage Disorders: Progress and Ongoing Challenges.**
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- XXXIII. **Leptin promotes proliferation of neonatal mouse stem/progenitor spermatogonia**
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- XXXIV. **Light-to-Heat Photothermal Dynamic Properties of Polypyrrole-Based Coating for Regenerative Therapy and Lab-on-a-Chip Applications**
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- XXXV. **From nutrition to medicine: Assessing hemorrhoid healing activity of Solanum melongena L. via in vivo experimental models and its major chemicals**
Donmez C., YALÇIN F. N., Boyacioglu O., KORKUSUZ P., Akkol E. K., NEMUTLU E., Balaban Y. H., Caliskan U. K.
JOURNAL OF ETHNOPHARMACOLOGY, vol.261, 2020 (SCI-Expanded)
- XXXVI. **Preparation and characterization of cyclodextrin nanosponges for organic toxic molecule removal**
VARAN C., Anceschi A., Sevli S., Bruni N., Giraud L., BİLGİÇ E., KORKUSUZ P., Iskit A. B., Trotta F., BİLENSOY E.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.585, 2020 (SCI-Expanded)
- XXXVII. **A Study of Histopathologic Evaluation and Clinical Correlation for Isolated Congenital Myogenic**

Ptosis and Aponeurotic Ptosis

Baytaroglu H. N., Kaya B., KORKUSUZ P., HOŞAL M. B.

OPHTHALMIC PLASTIC AND RECONSTRUCTIVE SURGERY, vol.36, no.4, pp.380-384, 2020 (SCI-Expanded)

XXXVIII. Effect of Systemic Oxytocin Administration on New Bone Formation and Distraction Rate in Rabbit Mandible

Altay B., Dede E. C., Ozgul O., Atil F., Kocyigit I. D., Orhan K., Tekin U., KORKUSUZ P., Onder M. E.

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XXXIX. Biological Responses of Ceramic Bone Spacers Produced by Green Processing of Additively Manufactured Thin Meshes

Minguella-Canela J., Antonio Calero J., KORKUSUZ F., KORKUSUZ P., Kankilic B., BİLGİÇ E., Antonia De los Santos-Lopez M.

MATERIALS, vol.13, no.11, 2020 (SCI-Expanded)

XL. In vivo imaging/detection of MRSA bacterial infections in mice using fluorescence labelled polymeric nanoparticles carrying vancomycin as the targeting agent

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JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.31, no.3, pp.293-309, 2020 (SCI-Expanded)

XLI. The Effect of Boron-Containing Nano-Hydroxyapatite on Bone Cells

Gizer M., Köse S., Karaosmanoglu B., Taskiran E., Berkkan A., Timuçin M., Korkusuz F., Korkusuz P.

BIOLOGICAL TRACE ELEMENT RESEARCH, vol.193, no.2, pp.364-376, 2020 (SCI-Expanded)

XLII. Neuropeptide Y1 receptor antagonist but not neuropeptide Y itself increased bone mineral density when locally injected with hyaluronic acid in male Wistar rats

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TURKISH JOURNAL OF MEDICAL SCIENCES, vol.50, no.5, pp.1454-1460, 2020 (SCI-Expanded)

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XLVII. Development, characterization and research of efficacy on in vitro cell culture of glucosamine carrying hyaluronic acid nanoparticles

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XLVIII. Critical-size alveolar defect treatment via TGF-ss 3 and BMP-2 releasing hybrid constructs

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- LI. **Stem cells combined 3D electrospun nanofibrous and macrochannelled matrices: a preliminary approach in repair of rat cranial bones**
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- LIII. **Dual Effect of Glucocorticoid-Induced Tumor Necrosis Factor-Related Receptor Ligand Carrying Mesenchymal Stromal Cells on Small Cell Lung Cancer: A Preliminary in vitro Study**
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- LIV. **Plasmonic System as a Compound Eye: Image Point-Spread Function Enhancing by Entanglement**
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- LV. **Generation of human umbilical cord vein CD146+ perivascular cell originated three-dimensional vascular construct.**
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- LVI. **A Novel Method of Neo-osseous Flap Prefabrication: Induction of Free Calvarial Periosteum with Bioactive Glass**
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- LVII. **Human bone marrow mesenchymal stem cells secrete endocannabinoids that stimulate in vitro hematopoietic stem cell migration effectively comparable to beta-adrenergic stimulation**
KOSE S., AERTS-KAYA F. S. F., Kopru C. Z., NEMUTLU E., Koskonmaz B., KARAOSMANOĞLU B., TASKIRAN E. Z., ALTUN B., CETINKAYA D. U., KORKUSUZ P.
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- LVIII. **Advanced Injectable Alternatives for Osteoarthritis**
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- LIX. **Bacterial detection using bacteriophages and gold nanorods by following time-dependent changes in Raman spectral signals**
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- LX. **Stem Cell and Advanced Nano Bioceramic Interactions**
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- LXI. **Comparison of Hematopoietic and Spermatogonial Stem Cell Niches from the Regenerative Medicine Aspect**
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- LXII. **Effect of intermedin/adrenomedullin(2) on the pulmonary vascular bed in hypoxia-induced pulmonary hypertensive rats**
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- LXIII. **Highly field enhancement by plasmonic field engineering in random distribution of Au-Au nanoparticles as SERS structure**
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- LXIV. **Effect of Locally Administered Alendronate on Onlay Grafts**
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- LXV. **Plasmon-plasmon interaction effect on reproducible surface-enhanced Raman scattering for dye molecule detection**
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- LXVI. **Evaluation of hyaluronic matrix efficacy in sinus augmentation: a randomized-controlled histomorphometric and micro-computed tomography analysis.**
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- LXVII. **Netrin-1 is associated with macrophage infiltration and polarization in human epicardial adipose tissue in coronary artery disease**
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Non Academic Experience

Yale Üniversitesi Tıp Fakültesi

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Çubuk 1 nolu sağlık ocağında zorunlu hizmet