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Education Information

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Plastik Rekonstrüktif Ve Estetik Cerrahi , Turkey 1992 - 1987

Undergraduate, Hacettepe University, Sivas Tıp Fakültesi, Turkey 1979 - 1986

Dissertations

Doctorate, KRANİYAL SÜTÜR FÜZYONUNDA CALCİTONİN GENE-RELATED PEPTİDE (CGRP)'İN ROLÜ , Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, İleri Plastik, Rekonstrüktif Ve Estetik Cerrahi (Dr), 2003

Research Areas

Medicine, Health Sciences, Surgery Medicine Sciences, Plastic and Reconstructive Surgery

Academic and Administrative Experience

Hacettepe Üniversitesi, Hacettepe Tıp Fakültesi, 2015 - Continues

Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik (Dr), 2015 - Continues

Hacettepe Üniversitesi, Deney Hayvanları Uygulama Ve Araştırma Merkezi, 2014 - Continues

Kırıkkale Üniversitesi, Tıp Fakültesi, Cerrahi Tıp Bilimleri Bölümü, 2005 - 2013

Kırıkkale Üniversitesi, Tıp Fakültesi, 2009 - 2010

Kırıkkale Üniversitesi, Tıp Fakültesi, 2006 - 2009

Advising Theses

VARGEL İ., Antikor taşıyan nanopartiküller kullanarak hipertermi ile tümör dokusunun tedavisi, Doctorate, R.DIDARIAN(Student), 2017

VARGEL İ., Kalvaryal defektlerin onarımında jelatin/hidroksiapatit esaslı kriyojel doku iskelelerinin etkisi, Doctorate, İ.İNÇİ(Student), 2012

VARGEL İ., Manyetik yüklü altın kaplı nanopartiküllerin yüklendiği kemik iliği kökenli mezenkimal kök hücrelerle kalvaryal kemik defekti onarımı değerlendirilmesi, Expertise In Medicine, M.GÜREL(Student), 2012

VARGEL İ., Denerve deri yaralarında epidermal büyüme faktörü taşıyan polimer kapamalarının yara iyileşmesine olan etkilerinin araştırılması, Expertise In Medicine, G.KARAEMİNOĞULLARI(Student), 2009

VARGEL İ., Denerve dokulardaki üçüncü derece yanıklarda "Calcitonin gene-related peptide (CGRP)"in yara iyileşmesine

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Therapeutic targeting of siRNA/anti-cancer drug delivery system for non-melanoma skin cancer. Part I: Development and gene silencing of JAK1siRNA/5-FU loaded liposome nanocomplexes**
Aslan M., ÖZTÜRK Ş., Shahbazi R., Bozdemir O. z., ZEYBEK N. D., VARGEL İ., EROĞLU İ., ULUBAYRAM K.
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, 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. **Controlled Release Simvastatine from Molecularly Imprinted Cryogel Membranes**
Faalnouri S., ÇİMEN D., VARGEL İ., DENİZLİ A., BERELİ N.
CHEMISTRYSELECT, no.36, 2024 (SCI-Expanded)
- IV. **Evaluation of Burn Wound Healing Efficacy and Biocompatibility of Centella asiatica Mediated Synthesised AgNPs Loaded Hybrid Nanofiber Scaffold: In Vitro and In Vivo Studies**
Bozkaya O., Bozkaya E., EKİCİ H., ALÇIĞIR M. E., ŞAHİN Y., Cerci N. A., KARAHAN S., YİĞİTOĞLU M., VARGEL İ.
MACROMOLECULAR MATERIALS AND ENGINEERING, 2024 (SCI-Expanded)
- V. **Assessment of Ecotropic Viral Integration Site 2B (EVI2B) Gene in Juvenile Myelomonocytic Leukemia and Neurofibromatosis Type 1 NF1 Tumors**
Saharafi P., AKAR İ., ERSOY EVANS S., Anlar B., VARAN A., VARGEL İ., ÇETİN M., Ayter S.
Biochemical Genetics, vol.62, no.2, pp.1263-1276, 2024 (SCI-Expanded)
- VI. **Investigation of the in vitro antibacterial, cytotoxic and in vivo analgesic effects of silver nanoparticles coated with Centella asiatica plant extract**
Bozkaya O., Ekici H., Gün Gök Z., Arat E., Ekici S., Yiğitoğlu M., Vargel İ.
Ankara Universitesi Veteriner Fakultesi Dergisi, vol.70, no.1, pp.87-96, 2023 (SCI-Expanded)
- VII. **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)
- VIII. **Hybrid tumor 'spiradenocylindroma' with unusual dermoscopic features**
Bostan E., BOYNUYOĞUN E., GÖKÖZ Ö., VARGEL İ.
Anais Brasileiros de Dermatologia, vol.98, no.3, pp.382-384, 2023 (SCI-Expanded)
- IX. **Clinical results of polidocanol sclerotherapy in venous malformation treatment: Patient-perceived improvement and satisfaction**
ÇAY F., Altunbulak A. Y., ÖZBAY Y., Eldem G., Çil B. E., VARGEL İ., Kutluk M. T., YALÇIN B., PEYNİRCİOĞLU B.
Phlebology, vol.38, no.1, pp.36-43, 2023 (SCI-Expanded)
- X. **Endovascular Treatment of Peripheral Arteriovenous Malformations (AVMs): Do Angiographic Outcomes Relate to the Quality of Life?**
ÇAY F., Eldem G., Sevim G. A., Özdemir K. Ç., Çil B. E., VARGEL İ., PEYNİRCİOĞLU B.
Journal of Endovascular Therapy, 2023 (SCI-Expanded)
- XI. **Biofabrication of Poly(glycerol sebacate) Scaffolds Functionalized with a Decellularized Bone Extracellular Matrix for Bone Tissue Engineering**
GÜLER S., Eichholz K., Chariyev-Prinz F., Pitacco P., AYDIN H. M., Kelly D. J., VARGEL İ.
Bioengineering, vol.10, no.1, 2023 (SCI-Expanded)
- XII. **Autologous Adipose-Derived Tissue Stromal Vascular Fraction (AD-tSVF) for Knee Osteoarthritis**
VARGEL İ., Tuncel A., Baysal N., HARTUÇ ÇEVİK İ., KORKUSUZ F.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.23, no.21, 2022 (SCI-Expanded)
- XIII. **Evaluation of histopathological margin and other recurrence parameters in basal cell carcinoma: A**

retrospective analysis of 8821 lesions

YILDIZDAL S., Kucukguven A., ÇALIŞ M., VARGEL İ.

JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY, vol.75, no.9, pp.3390-3397, 2022 (SCI-Expanded)

- XIV. **A novel ultrasound-guided minimally invasive technique for the treatment of extracapsular condylar fractures**
KÜÇÜKGÜVEN A., VARGEL İ., Mavili E.
JOURNAL OF CRANIO-MAXILLOFACIAL SURGERY, vol.50, no.6, pp.473-477, 2022 (SCI-Expanded)
- XV. **Production and characterization of hybrid nanofiber wound dressing containing Centella asiatica coated silver nanoparticles by mutual electrospinning method**
Bozkaya O., Arat E., GÖK Z. G., YİĞİTOĞLU M., VARGEL İ.
EUROPEAN POLYMER JOURNAL, vol.166, 2022 (SCI-Expanded)
- XVI. **Temporomandibular joint innervation: Anatomical study and clinical implications**
KÜÇÜKGÜVEN A., DEMİRYÜREK M. D., VARGEL İ.
ANNALS OF ANATOMY-ANATOMISCHER ANZEIGER, vol.240, 2022 (SCI-Expanded)
- XVII. **Treatment of En Coup de Sabre Deformity with Fat Grafting and Demineralized Bone Matrix: A Case Series**
MENKÜ ÖZDEMİR F. D., ÜSTÜN G. G., VARGEL İ., ÖZGÜR F. F.
JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY, vol.74, no.12, pp.3353-3360, 2021 (SCI-Expanded)
- XVIII. **A Novel Injection Technique to the Lateral Pterygoid Muscle for Temporomandibular Disorders: A Cadaveric Study**
KÜÇÜKGÜVEN A., DEMİRYÜREK M. D., BİLGİÇ KÜÇÜKGÜVEN M., VARGEL İ.
PLASTIC AND RECONSTRUCTIVE SURGERY, vol.148, no.5, 2021 (SCI-Expanded)
- XIX. **Treatment of tumour tissue with radio-frequency hyperthermia (using antibody-carrying nanoparticles)**
Didarian R., VARGEL İ.
IET NANOBIO TECHNOLOGY, vol.15, no.8, pp.639-653, 2021 (SCI-Expanded)
- XX. **Airflow Considerations and the Effect of Webster's Triangle in Reduction Rhinoplasty**
Kamburoglu H. O., Bitik O., VARGEL İ.
AESTHETIC PLASTIC SURGERY, vol.45, no.5, pp.2244-2254, 2021 (SCI-Expanded)
- XXI. **Synthesis, characterization and wound healing ability of PET based nanofiber dressing material coated with silk sericin capped-silver nanoparticles**
GÖK Z. G., YİĞİTOĞLU M., VARGEL İ., ŞAHİN Y., ALÇIĞIR M. E.
MATERIALS CHEMISTRY AND PHYSICS, vol.259, 2021 (SCI-Expanded)
- XXII. **Production of 2-hydroxyethyl methacrylate-g-poly(ethylene terephthalate) nanofibers by electrospinning and evaluation of the properties of the obtained nanofibers**
GÖK METİN Z., İNAL M., Bozkaya O., YİĞİTOĞLU M., VARGEL İ.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.41, 2020 (SCI-Expanded)
- XXIII. **Minimally invasive cortical bone collector: A new tool in rhinoplasty**
Sert G., Bitik O., VARGEL İ.
JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY, vol.73, no.7, pp.1389-1392, 2020 (SCI-Expanded)
- XXIV. **Coating of modified poly(ethylene terephthalate) fibers with sericin-capped silver nanoparticles for antimicrobial application**
GÖK Z. G., Gunay K., ARSLAN M., YİĞİTOĞLU M., VARGEL İ.
POLYMER BULLETIN, vol.77, no.4, pp.1649-1665, 2020 (SCI-Expanded)
- XXV. **Clinical and Molecular Study of ELMO-2-Related Massive Intraosseous Vascular Malformations Lessons Learned From 25 Years of Follow-up**
VARGEL İ., ÇALIŞ M., Canter H. I., ÇİL B. E.
ANNALS OF PLASTIC SURGERY, vol.83, no.3, pp.293-299, 2019 (SCI-Expanded)

- XXVI. **The effect of playing video games on fiberoptic intubation skills**
Yilbas A. A., CANBAY Ö., AKÇA B., ÜZÜMCÜGİL F., MELEK A., ÇALIŞ M., VARGEL İ.
ANAESTHESIA CRITICAL CARE & PAIN MEDICINE, vol.38, no.4, pp.341-345, 2019 (SCI-Expanded)
- XXVII. **Stem cells combined 3D electrospun nanofibrous and macrochannelled matrices: a preliminary approach in repair of rat cranial bones**
İŞOĞLU İ. A., Bolgen N., KORKUSUZ P., VARGEL İ., ÇELİK H. H., Kilic E., Guzel E., Cavusoglu T., Uckan D., Piskin E.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.47, no.1, pp.1094-1100, 2019 (SCI-Expanded)
- XXVIII. **Percutaneous Treatment of Scalp Arteriovenous Fistulas by Direct Puncture and Polydocanol Sclerotherapy Report of 2 Cases with Long-term Follow-up**
Cil B., Topcuoglu O. M., PEYNİRCİOĞLU B., ARAT A., VARGEL İ.
CLINICAL NEURORADIOLOGY, vol.28, no.4, pp.609-612, 2018 (SCI-Expanded)
- XXIX. **Heightened CXCR4 and CXCL12 expression in NF1-associated neurofibromas**
KARAOSMANOĞLU B., Kocaefe C. Y., Soylemezoglu F., Anlar B., VARAN A., VARGEL İ., Ayter S.
CHILDS NERVOUS SYSTEM, vol.34, no.5, pp.877-882, 2018 (SCI-Expanded)
- XXX. **Cranial bone regeneration via BMP-2 encoding mesenchymal stem cells**
Vural A. C., Odabas S., KORKUSUZ P., Saglam A. S. Y., BİLGİÇ E., Cavusoglu T., Piskin E., VARGEL İ.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.45, no.3, pp.544-550, 2017 (SCI-Expanded)
- XXXI. **Humanitarian Activities of Interplast Turkiye: 6 Years of Experience in Uzbekistan for Surgical Treatment of Cleft Patients and Related Secondary Deformities**
ÇALIŞ M., ARAL A. M., SENCAN A., KANBAK M., VARGEL İ., OZGUR F., İSCEN D.
ANNALS OF PLASTIC SURGERY, vol.77, no.5, pp.494-498, 2016 (SCI-Expanded)
- XXXII. **Correction of Brachymetatarsia and Medial Angulation of the Great Toe of Apert Foot By Distraction Osteogenesis: A Review of 7 Years of Experience**
ÇALIŞ M., Oznur A., EKİN Ö., VARGEL İ.
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.36, no.6, pp.582-588, 2016 (SCI-Expanded)
- XXXIII. **Loss-of-Function Mutations in ELMO2 Cause Intraosseous Vascular Malformation by Impeding RAC1 Signaling**
Cetinkaya A., Xiong J. R., Vargel İ., Kösemehmetoğlu K., Canter H. I., Gerdan O. F., Longo N., Alzahrani A., Camps M. P., Taskiran E. Z., et al.
AMERICAN JOURNAL OF HUMAN GENETICS, vol.99, no.2, pp.299-317, 2016 (SCI-Expanded)
- XXXIV. **Poly(L-Lactide)/Poly(epsilon-Caprolactone) and Collagen/beta-Tricalcium Phosphate Scaffolds for the Treatment of Critical-Sized Rat Alveolar Defects: A Microtomographic, Molecular-Biological, and Histological Study**
Ekin O., ÇALIŞ M., ALIYEV A., Yar A. S., KORKUSUZ P., BİLGİÇ E., AYDIN H. M., ÇELİK H. H., OZGUR F., VARGEL İ.
CLEFT PALATE-CRANIOFACIAL JOURNAL, vol.53, no.4, pp.453-463, 2016 (SCI-Expanded)
- XXXV. **Ti implants with nanostructured and HA-coated surfaces for improved osseointegration**
Sirin H. T., VARGEL İ., Kutsal T., KORKUSUZ P., Piskin E.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.44, no.3, pp.1023-1030, 2016 (SCI-Expanded)
- XXXVI. **Evaluation of the effectiveness of biodegradable electrospun caprolactone and poly(lactic acid-epsilon-caprolactone) nerve conduits for peripheral nerve regenerations in a rat sciatic nerve defect model**
DADACI M., KARAGÜLLE N., Sonmez E., Dadaci Z., İsci E. T., İNCE B., VARGEL İ., Piskin E., ERK A. Y.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.46, no.2, pp.539-548, 2016 (SCI-Expanded)
- XXXVII. **Metastasis suppressor proteins in cutaneous squamous cell carcinoma**
Bozdogan O., VARGEL İ., Cavusoglu T., Karabulut A. A., Karahan G., Sayar N., Atasoy P., YULUĞ I.
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- XXXVIII. **Differential expression patterns of metastasis suppressor proteins in basal cell carcinoma**
Bozdogan O., Yulug I. G., VARGEL İ., Cavusoglu T., Karabulut A. A., Karahan G., Sayar N.
INTERNATIONAL JOURNAL OF DERMATOLOGY, vol.54, no.8, pp.905-915, 2015 (SCI-Expanded)
- XXXIX. **Gelatin-Hydroxyapatite Cryogels with Bone Morphogenetic Protein-2 and Transforming Growth Factor Beta-1 for Calvarial Defects**
Inci I., Odabas S., VARGEL İ., Guzel E., KORKUSUZ P., Cavusoglu T., Kirsebom H., ÇELİK H. H., DEMİRKAZIK F.,

Mattiasson B., et al.

JOURNAL OF BIOMATERIALS AND TISSUE ENGINEERING, vol.4, no.8, pp.624-631, 2014 (SCI-Expanded)

- XL. **Intraarterial polidocanol injection for the treatment of peripheral arteriovenous malformations**
Ergun O., Atli E., Gulek B., Ciftci T., Cil B., Vargel I., PEYNİRCİOĞLU B.
SURGERY TODAY, vol.44, no.7, pp.1232-1241, 2014 (SCI-Expanded)
- XLI. **Influence of scaffold composition over invitro osteogenic differentiation of hBMSCs and invivo inflammatory response**
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- XLII. **Stem cell suspension injected HEMA-lactate-dextran cryogels for regeneration of critical sized bone defects**
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- XLIII. **Mutations in the interleukin receptor IL11RA cause autosomal recessive Crouzon-like craniosynostosis**
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MOLECULAR GENETICS & GENOMIC MEDICINE, vol.1, no.4, pp.223-237, 2013 (SCI-Expanded)
- XLIV. **Percutaneous management of peripheral vascular malformations: a single center experience**
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- XLV. **Results of GM-CSF treatment in chemotherapeutic extravasation ulcers**
Vargel I., Canter H. I., Erdem A., Altundag M. K.
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- XLVI. **A newborn with infantile fibrosarcoma of foot: treatment with chemotherapy and extremity-sparing surgery**
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- XLVII. **ALX4 dysfunction disrupts craniofacial and epidermal development**
Kayserili H., Uz E., Niessen C., VARGEL İ., Alanay Y., Tuncbilek G., Yigit G., Uyguner O., Candan S., Okur H., et al.
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- XLVIII. **A Comparison of Various Vascularization-Perfusion Venous Nerve Grafts with Conventional Nerve Grafts in Rats**
VARGEL İ., Demirci M., ERDEM S., FIRAT P., Surucu H. S., TAN E., Kecik A.
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- XLIX. **Venous vascular malformations of the craniofacial region: pre-operative embolisation with direct percutaneous puncture and N-butyl cyanoacrylate**
Cil B. E., Vargel I., Geyik S., Peynircioglu B., Cavusoglu T.
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- L. **Skewed X inactivation in an X linked nystagmus family resulted from a novel, p.R229G, missense mutation in the FRMD7 gene**
Kaplan Y., VARGEL İ., Kansu T., Akin B., Rohmann E., Kamaci S., Uz E., Ozcelik T., Wollnik B., Akarsu N. A.
BRITISH JOURNAL OF OPHTHALMOLOGY, vol.92, no.1, pp.135-141, 2008 (SCI-Expanded)
- LI. **Effect of slow-release 5-fluorouracil on capsule formation around silicone breast implants: An experimental study with mice**
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- LII. **Embolization of high-flow craniofacial vascular malformations with onyx**
Arat A., Cil B. E., Vargel I., Turkbey B., Canyigit M., Peynircioglu B., Arat Y. O.
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- LIII. **In vivo performance of antibiotic embedded electrospun PCL membranes for prevention of abdominal adhesions**

- Boelgen N., Vargel I., Korkusuz P., Menciloglu Y. Z., Piskin E.
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- LIV. **Repeated tissue expansions on solit-thickness skin graft in a patient with neurocutaneous syndrome**
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- LV. **Reconstruction of mandibular defects using autografts combined with demineralized bone matrix and cancellous allograft**
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- LVI. **Results of botulinum toxin: An application to blepharospasm in Schwartz-Jampel syndrome**
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- LVIII. **Blood loss and transfusion rates during repair of craniofacial deformities**
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- LIX. **In vitro and in vivo degradation of non-woven materials made of poly(epsilon-caprolactone) nanofibers prepared by electrospinning under different conditions**
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- LX. **Correction of facial deformity using a red III device in a patient with Antley-Bixler syndrome**
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- LXII. **Solvent-dehydrated calvarial allografts in craniofacial surgery**
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- LXIII. **Isolated supraorbital rim fracture displaced out of scalp: A case report**
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- LXIV. **Stoppers in Red II distraction device: Is it possible to prevent pin migration?**
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- LXV. **Midface distraction using spring scale attached to rigid external device**
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- LXVI. **Familial syndrome of unusual triangular facies associated with cleft palate, malocclusion, midfacial hypoplasia and sensorineural hearing loss in two siblings. Is it a new autosomal recessive syndrome?**
Balci S., Akcan B., Vargel I., Tumer C., Enacar A.
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Çetinkaya F. D., Çelebi Saltık B., Vargel İ., Okur F. V., Korkusuz P., Özcan A., TUBITAK Project, Hacettepe Üniversitesi Ar Ge

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Metrics

Publication: 104

Citation (WoS): 964

Citation (Scopus): 494

H-Index (WoS): 15

H-Index (Scopus): 11

Non Academic Experience

Pittsburg University Department of Plastic Reconstructive and Esthetic Surgery and Tissue Engineering Center

International Facial Fellowship Program of the Dutch Association for Facial Plastic and Reconstructive Surgery

Michigan University Institute of Plastic and Reconstructive Surgery

ETİMESGUT BÖLGE HASTANESİ

HAYMANA DEVLET HASTANESİ

HACETTEPE ÜNİ. TIP FAKÜLTESİ ERİŞKİN HASTANESİ

SİVAS TIP FAK. HASTANESİ

MİLLİ EĞİTİM BAKANLIĞI ORTA ÖĞRETİM KURUMLARI