

## Prof. ERDEM KARABULUT

### Personal Information

Office Phone: [+90 312 305 1467](tel:+903123051467)

Fax Phone: [+90 312 305 1459](tel:+903123051459)

Email: [ekarabul@hacettepe.edu.tr](mailto:ekarabul@hacettepe.edu.tr)

Web: <https://avesis.hacettepe.edu.tr/ekarabul>

Address: Hacettepe Üniversitesi Tıp Fakültesi Biyoistatistik AD Sıhhiye / Ankara

### Education Information

Post Doctorate, Hacettepe Üniversitesi, Tıp Fakültesi, Biyoistatistik, Turkey 2003 - Continues

Doctorate, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyoistatistik, Turkey 1998 - 2003

Post Graduate, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyoistatistik, Turkey 1994 - 1998

Under Graduate, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik, Turkey 1989 - 1994

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biostatistics and Medical Informatics, Statistics, Statistical Analysis and Applications, Natural Sciences

### Academic Titles / Tasks

Professor, Hacettepe University, Tıp Fakültesi (ingilizce), Temel Tıp Bilimleri Bölümü, 2017 - Continues

Associate Professor, Hacettepe University, Tıp Fakültesi (ingilizce), Temel Tıp Bilimleri Bölümü, 2011 - 2017

Assistant Professor, Hacettepe University, Tıp Fakültesi (ingilizce), Temel Tıp Bilimleri Bölümü, 2010 - 2011

Lecturer, Hacettepe University, 2004 - 2010

Research Assistant, Hacettepe University, 1997 - 2004

### Professional Experience

Head of Department, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyoinformatik (YI) (Tezli), 2015 - Continues

### Advising Theses

Karabulut E., Sosyal ağ analizinin hastalık biyobelirteçlerinin belirlenmesinde kullanımı, Doctorate, H.YAĞMUR(Student), 2018

KARABULUT E., Yüksek boyut düşük örneklem genişliği durumunda sınıflama algoritmalarının performanslarının karşılaştırılması, Doctorate, Ü.AYDOĞAN(Student), 2015

KARABULUT E., Development and application of novel machine learning approaches for RNA-seq data classification, Doctorate, G.ZARARSIZ(Student), 2015

KARABULUT E., Mikroarray gen ekspresyon veri setlerinde random forest ve naive bayes sınıflama yöntemleri yaklaşımı, Post Graduate, E.KORKEM(Student), 2013

KARABULUT E., Gen ekspresyon verilerinde kümelemeye dayalı yeni bir sınıflandırma yaklaşımı, Post Graduate, G.ZARARSIZ(Student), 2012

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Comparison of generalized estimating equations and Quasi-Least Squares regression methods in terms of efficiency with a simulation study**  
Asar E., KARABULUT E.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, 2021 (Journal Indexed in SCI)
- II. **Nanofilled and conventional resin-modified glass ionomer fillings combined with connective tissue grafts for treatment of gingival recessions with non-cariou cervical lesions**  
Dursun E., GÜNCÜ G. N. , Dursund C. K. , Kiremitci A., KARABULUT E., AKALIN F. A.  
JOURNAL OF ORAL SCIENCE, vol.60, no.3, pp.344-351, 2018 (Journal Indexed in SCI)
- III. **Effects of Genetic Variants of Human Nicotinic Receptor Subunits CHRNA3, CHRNA4, CHRNA5 on Nicotine Dependence and Smoking Cessation**  
MÜDERRİSOĞLU A., BABAOĞLU E., korkmaz e. t. , KALKIŞIM S. N. , KARABULUT E., EMRİ K. A. S. , BABAOĞLU M. Ö.  
Basic & Clinical Pharmacology & Toxicology, vol.123, pp.5, 2018 (Journal Indexed in SCI)
- IV. **EFFECTS OF A GENETIC POLYMORPHISM OF HUMAN CYP2B6 ON NICOTINE DEPENDENCE AND SMOKING CESSATION THERAPY**  
MÜDERRİSOĞLU A., Babaoglu E., KORKMAZ E., Ongun M. C. , KARABULUT E., Emri S., BABAOĞLU M. Ö.  
BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY, vol.123, pp.6, 2018 (Journal Indexed in SCI)
- V. **EFFECTS OF GENETIC VARIANTS OF HUMAN NICOTINIC RECEPTOR SUBUNITS CHRNA3, CHRNA4, CHRNA5 ON NICOTINE DEPENDENCE AND SMOKING CESSATION**  
MÜDERRİSOĞLU A., Babaoglu E., KORKMAZ E., Kalkisim S., KARABULUT E., Emri S., BABAOĞLU M. Ö.  
BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY, vol.123, pp.5, 2018 (Journal Indexed in SCI)
- VI. **Assessment of Peripheral Neuropathy in Patients with  $\beta$ -Thalassemia via Electrophysiological Study: Reevaluation in the Era of Iron Chelators.**  
Bayhan T., Ünal Ş., Konuşkan B., Erdem O., Karabulut E., Gümrük F.  
Hemoglobin, vol.42, pp.113-116, 2018 (Journal Indexed in SCI Expanded)
- VII. **Evaluating the effects of cardiac resynchronization therapy on pathophysiological pathways of heart failure using surrogate biomarkers**  
SUNMAN H., ÖZKAN A., YORGUN H., CANPOLAT U., KARABULUT E., Bayrak T., KAYA E. B. , Tokgozoglu L., ÖZER N., Ozkara A., et al.  
CARDIOLOGY JOURNAL, vol.25, no.1, pp.42-51, 2018 (Journal Indexed in SCI)
- VIII. **Heavy metal levels in patients with ineffective erythropoiesis.**  
Bayhan T., Ünal Ş., Çırak E., Erdem O., Akay C., Gürsel O., Eker İ., Karabulut E., Gümrük F.  
Transfusion and apheresis science : official journal of the World Apheresis Association : official journal of the European Society for Haemapheresis, vol.56, pp.539-543, 2017 (Journal Indexed in SCI Expanded)
- IX. **Workplace Violence in the Health Sector in Turkey: A National Study**  
Pinar T., Acikel C., PINAR G., KARABULUT E., Saygun M., BARIŞKIN E., Guidotti T. L. , Akdur R., Sabuncu H., Bodur S., et al.  
JOURNAL OF INTERPERSONAL VIOLENCE, vol.32, no.15, pp.2345-2365, 2017 (Journal Indexed in SSCI)
- X. **Association of neck circumference and pulmonary function in children**  
Akin O., Arslan M., Haymana C., KARABULUT E., Hacıhamdioğlu B., Yavuz S. T.  
ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, vol.119, no.1, pp.27-30, 2017 (Journal Indexed in SCI)
- XI. **The questioning for routine monthly monitoring of proteinuria in patients with  $\beta$ -thalassemia on**

**deferasirox chelation.**

Bayhan T, Ünal Ş, Ünlü O, Küçüker H, Tatal A, Karabulut E, Gümrük F.

Hematology (Amsterdam, Netherlands), vol.22, pp.248-251, 2017 (Journal Indexed in SCI Expanded)

- XII. **Final diagnosis of children and adolescents with musculoskeletal complaints**  
Cavkaytar O, DÜZOVA A, TEKŞAM Ö, KARABULUT E, DERMAN O, Kale G, ÖZEN S.  
MINERVA PEDIATRICA, vol.69, no.1, pp.50-58, 2017 (Journal Indexed in SCI)
- XIII. **HPV types and E6/E7 mRNA expression in cervical samples from Turkish women with abnormal cytology in Ankara, Turkey**  
Tuney I, Altay A, ERGÜNAY K, ÖNDER S. Ç. , USUBÜTÜN A., SALMAN M. C. , Bozdayi G, KARABULUT E, Badur O. S. , Yuce K, et al.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.47, no.1, pp.194-200, 2017 (Journal Indexed in SCI)
- XIV. **Plasma Levels of Bone Morphogenetic Protein (BMP) Subgroups and Their Inhibitors (noggin, sclerostin) in Rheumatoid Arthritis Patients and Correlation with Disease Activity, Clinical and Radiographic Progression**  
Kockara O, GÜNGÖREN M. S. , KARABULUT E, Ataman S, AKBIYIK F.  
ARTHRITIS & RHEUMATOLOGY, vol.68, 2016 (Journal Indexed in SCI)
- XV. **THE PREVALENCE OF CONSANGUINEOUS MARRIAGES AND AFFECTING FACTORS IN TURKEY: A NATIONAL SURVEY**  
KAPLAN S, Pinar G, Kaplan B, Aslantekin F, KARABULUT E, Ayar B, Dilmen U.  
JOURNAL OF BIOSOCIAL SCIENCE, vol.48, no.5, pp.616-630, 2016 (Journal Indexed in SSCI)
- XVI. **Statins and IL-1 beta, IL-10, and MPO Levels in Gingival Crevicular Fluid: Preliminary Results**  
ARI V. C. , İLARSLAN Y. D. , Erman B, Sarkarati B, TEZCAN I, KARABULUT E, ÖZ Ş. G. , TANRIOVER M. D. , SENGUN D., BERKER E.  
INFLAMMATION, vol.39, no.4, pp.1547-1557, 2016 (Journal Indexed in SCI)
- XVII. **Intraocular Pressure Characteristics of Exfoliative Glaucoma and Exfoliation Syndrome as Determined With the Water Drinking Test**  
Mocan M. C. , Kasim B, Muz E, Irkeç M, Orhan M, KARABULUT E, Mikropoulos D. G. , Konstas A. G. P.  
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- XVIII. **Role of inflammation in intrahepatic cholestasis of pregnancy**  
Biberoglu E, Kirbas A, Daglar K, Kara O, KARABULUT E, Yakut H. I. , Danisman N.  
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- XIX. **Investigating the effects of a multidimensional exercise program on symptoms and antiinflammatory status in female patients with ankylosing spondylitis**  
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- XX. **Serum angiogenic profile in abnormal placentation**  
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- XXI. **Validation of Katz index of independence in activities of daily living in Turkish older adults**  
Arik G, DOĞAN VARAN H, DOĞU B. B. , KARABULUT E, Kara O, KILIÇ M, KIZILARSLANOĞLU M. C. , SÜMER F, KUYUMCU M. E. , YEŞİL Y, et al.  
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- XXII. **DIRECT TREATMENT COSTS OF STROKE IN TURKEY**  
Tatar M, SENTURK A, TUNA E, KARABULUT E, ÇALIŞKAN Z, ARSAVA E. M. , TOPÇUOĞLU M. A.  
VALUE IN HEALTH, vol.18, no.7, 2015 (Journal Indexed in SCI)
- XXIII. **Plasma Levels of Bone Morphogenetic Protein (BMP) Subgroups and Their Inhibitors (noggin, sclerostin) in Rheumatoid Arthritis Patients and Correlation with Disease Activity, Clinical and Radiographic Progression: Preliminary Results**  
Kockara O, Ataman S, GÜNGÖREN M. S. , AKBIYIK F, KARABULUT E.  
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- XXIV. **Choroid plexus separation in fetuses without ventriculomegaly: Natural course and postnatal outcome**  
Ipek A., Sayit A. T. , Idilman I. S. , Kurt A., Cay N., Unal O., KARABULUT E., Keskin H. L. , Karaoglanoglu M.  
JOURNAL OF CLINICAL ULTRASOUND, vol.43, no.8, pp.478-484, 2015 (Journal Indexed in SCI)
- XXV. **Necessity of Keratinized Tissues for Dental Implants: A Clinical, Immunological, and Radiographic Study**  
Askin S. B. , Berker E., Akincibay H., UYSAL S., Erman B., Tezcan I., KARABULUT E.  
CLINICAL IMPLANT DENTISTRY AND RELATED RESEARCH, vol.17, no.1, pp.1-12, 2015 (Journal Indexed in SCI)
- XXVI. **Is the health-related quality of life and functional status of patients with psoriatic arthritis worse than that of patients with psoriasis alone?**  
Tezel N., Yilmaz Tasdelen O., Bodur H., Gul U., Kulcu Cakmak S., Oguz I. D. , KARABULUT E.  
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- XXVII. **The effect of swimming and type of stroke on bone metabolism in competitive adolescent swimmers: a pilot study**  
AKGÜL S., KANBUR N., CİNEMRE Ş. A. , KARABULUT E., DERMAN O.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.45, no.4, pp.827-832, 2015 (Journal Indexed in SCI)
- XXVIII. **Three Dimensional Conformal Radiotherapy and Androgen Deprivation Therapy in Patients with Clinically Localized Prostate Cancer; Hacettepe University Experience**  
ÖZDEMİR Y., Akyol F., ÖZYİĞİT G., HÜR MÜZ P., Onal C., Selek U., KARABULUT E.  
UHOD-ULUSLARARASI HEMATOLOJİ-ONKOLOJİ DERGİSİ, vol.25, no.2, pp.107-117, 2015 (Journal Indexed in SCI)
- XXIX. **The Influence of Platform Switching on Clinical, Laboratory, and Image-Based Measures: A Prospective Clinical Study**  
DURSUN E., Tulunoglu I., Ozbek S. M. , UYSAL S., Akalin F. A. , Kilinc K., KARABULUT E., Tozum T. F.  
CLINICAL IMPLANT DENTISTRY AND RELATED RESEARCH, vol.16, no.6, pp.936-946, 2014 (Journal Indexed in SCI)
- XXX. **Low bone mineral density in young individuals is associated with greater gingival inflammation and recession**  
Tanriover M. D. , GÜNCÜ G. N. , ÖZ Ş. G. , Ercan E., KARABULUT E., Nazliel-Erverdi H.  
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- XXXI. **Lipid Peroxidation Levels and Total Oxidant/Antioxidant Status in Serum and Saliva From Patients With Chronic and Aggressive Periodontitis. Oxidative Stress Index: A New Biomarker for Periodontal Disease?**  
BALTACIOĞLU E., Yuva P., Aydin G., ALVER A., Kahraman C., KARABULUT E., AKALIN F. A.  
JOURNAL OF PERIODONTOLOGY, vol.85, no.10, pp.1432-1441, 2014 (Journal Indexed in SCI)
- XXXII. **Number of erythrocyte transfusions is more predictive than serum ferritin in estimation of cardiac iron loading in pediatric patients with acute lymphoblastic leukemia**  
ÜNAL Ş., ÇETİN M., HAZIROLAN T., Yildirim G., Meral A., Birbilen A., KARABULUT E., Aytac S., Tavail B., Kuskonmaz B. , et al.  
LEUKEMIA RESEARCH, vol.38, no.8, pp.882-885, 2014 (Journal Indexed in SCI)
- XXXIII. **Post-transplant hypertension in pediatric kidney transplant recipients**  
GÜLHAN B., TOPALOĞLU R., KARABULUT E., ÖZALTIN F., AKI F. T. , BİLGİNER Y., Besbas N.  
PEDIATRIC NEPHROLOGY, vol.29, no.6, pp.1075-1080, 2014 (Journal Indexed in SCI)
- XXXIV. **The Expression and Comparison of Healthy and Ptotic Upper Eyelid Contours Using a Polynomial Mathematical Function**  
MOCAN M. C. , İLHAN H., GÜRÇAY H., DİKMEŞ Ö., KARABULUT E., Erdener U., IRKEC M.  
CURRENT EYE RESEARCH, vol.39, no.6, pp.553-560, 2014 (Journal Indexed in SCI)
- XXXV. **Evaluation of Mandibular Lingual Foramina Related to Dental Implant Treatment With Computerized Tomography: A Multicenter Clinical Study**  
Yildirim Y. D. , GÜNCÜ G. N. , Galindo-Moreno P., Velasco-Torres M., Juodzbalys G., Kubilius M., Gervickas A., Al-Hezaimi K., Al-Sadhan R., Yilmaz H. G. , et al.  
IMPLANT DENTISTRY, vol.23, no.1, pp.57-63, 2014 (Journal Indexed in SCI)

- XXXVI. **Total Oxidant Status and Bone Resorption Biomarkers in Serum and Gingival Crevicular Fluid of Patients With Periodontitis**  
BALTACIOĞLU E., Kehribar M. A. , Yuva P., ALVER A., Atagun O. S. , KARABULUT E., AKALIN F. A.  
JOURNAL OF PERIODONTOLOGY, vol.85, no.2, pp.317-326, 2014 (Journal Indexed in SCI)
- XXXVII. **The Effects of Local Anaesthetics on QT Parameters during Thoracic Epidural Anaesthesia Combined with General Anaesthesia: Ropivacaine versus Bupivacaine**  
Güven O., Sazak H., Alagoz A., Savkilioglu E., Demirbas C. S. , Yildiz A., KARABULUT E.  
BALKAN MEDICAL JOURNAL, vol.30, no.4, pp.410-414, 2013 (Journal Indexed in SCI)
- XXXVIII. **Is there a gender difference in anatomic features of incisive canal and maxillary environmental bone?**  
GÜNCÜ G. N. , Yildirim Y. D. , Yilmaz H. G. , Galindo-Moreno P., Velasco-Torres M., Al-Hezaimi K., Al-Shawaf R., KARABULUT E., Wang H., TÖZÜM T. F.  
CLINICAL ORAL IMPLANTS RESEARCH, vol.24, no.9, pp.1023-1026, 2013 (Journal Indexed in SCI)
- XXXIX. **A Validity and Reliability Study of the Multidimensional Trust in Health-Care Systems Scale in a Turkish Patient Population**  
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- XL. **Turkish Validation of the PICCOLO (Parenting Interactions with Children: Checklist of Observations Linked to Outcomes)**  
Bayoglu B., Unal O., Elibol F., KARABULUT E., Innocenti M. S.  
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- XLI. **Role of specific IgE in predicting the clinical course of lentil allergy in children**  
YAVUZ S., ŞAHİNER Ü. M. , Buyuktiryaki B., Tuncer A., YILMAZ E., Cavkaytar O., KARABULUT E., Sackesen C.  
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- XLII. **Factors that predict the clinical reactivity and tolerance in children with cow's milk allergy**  
YAVUZ S., BÜYÜKTİRYAKI B., ŞAHİNER Ü. M. , BİRBEN E., TUNCER A., YAKARIŞIK S., KARABULUT E., KALAYCI O., Sackesen C.  
ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, vol.110, no.4, pp.284-289, 2013 (Journal Indexed in SCI)
- XLIII. **Hepatic Microcirculation in Inflow and Inflow Outflow Occlusion of the Liver**  
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- XLIV. **Optimizing the Use of a Skin Prick Test Device on Children**  
Buyuktiryaki B., ŞAHİNER Ü. M. , KARABULUT E., Cavkaytar O., Tuncer A., ŞEKEREL B. E.  
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- XLV. **Efficacy and Safety of Hepatectomy Performed with Intermittent Portal Triad Clamping with Low Central Venous Pressure**  
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- XLVI. **A Preoperative Prognostic Model Predicting Recurrence-free Survival for Patients With Kidney Cancer**  
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- XLVII. **Lack of association of the CD14/C-159T polymorphism with susceptibility and progression parameters in Turkish multiple sclerosis patients**  
Kurue A., Sayat G., Aydin O. F. , Turgutoglu N., Terzi M., Sackesen C., KARABULUT E., KARABUDAK R.  
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- XLVIII. **Strengthening mental health in psycho-oncology and family practice: perceived social support and psychodrama group psychotherapy**  
Iren Akbiyik D., Soygur H., KARABULUT E.

ANADOLU PSIKIYATRI DERGISI-ANATOLIAN JOURNAL OF PSYCHIATRY, vol.13, no.3, pp.205-209, 2012 (Journal Indexed in SCI)

- XLIX. **Identifying uncontrolled asthma in children with the childhood asthma control test or exhaled nitric oxide measurement**  
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- L. **Application of Kvaal et al.'s age estimation method to panoramic radiographs from Turkish individuals**  
Erbudak H. O. , Ozbek M., UYSAL S., KARABULUT E.  
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- LI. **Analysis of Cathepsin-K Activity at Tooth and Dental Implant Sites and the Potential of This Enzyme in Reflecting Alveolar Bone Loss**  
YAMALIK N., Gunday S., UYSAL S., Kilinc K., KARABULUT E., TÖZÜM T. F.  
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- LII. **Evaluation of Maxillary Incisive Canal Characteristics Related to Dental Implant Treatment With Computerized Tomography: A Clinical Multicenter Study**  
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- LIII. **Clarithromycin in Preventing Bronchopulmonary Dysplasia in Ureaplasma urealyticum-Positive Preterm Infants**  
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- LIV. **Examination of Inequality of Life Span by Using the Gini Coefficient in the Turkish Population for the Period 1990-2008**  
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- LV. **Cyclosporine Level at the Second Hour in Pediatric Hematopoietic Stem Cell Transplant Patients**  
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- LVI. **Analysis of Cathepsin-K Levels in Biologic Fluids from Healthy or Diseased Natural Teeth and Dental Implants**  
YAMALIK N., Gunday S., Kilinc K., KARABULUT E., Berker E., TÖZÜM T. F.  
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- LVII. **Ion release from metal-ceramic alloys in three different media**  
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- LVIII. **COMPARISON OF COMBINED ORAL AND IV CONTRAST-ENHANCED VERSUS SINGLE IV CONTRAST-ENHANCED MDCT FOR THE DETECTION OF ACUTE APPENDICITIS**  
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- LIX. **Clinic and ultrasound findings related to pain in patients with knee osteoarthritis**  
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- LX. **Pollen counts and their relationship to meteorological factors in Ankara, Turkey during 2005-2008**  
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- LXI. **Parental Perspectives on Influenza Vaccination in Children With Asthma**  
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