

Name/Surname **Sinem Yaprak KARAVANA**

Telephone +90 232 3111961

+90 532 6113241

Fax +90 232 3885258

E-mail sinem.yaprak.karavana@ege.edu.tr

Nationality Turkish Republic

Date of birth March. 27. 1976

Gender Female

### **Work experience**

Dates 1999-today

Occupation or position held ASSOC. PROF.

Main activities and responsibilities RESEARCH & EDUCATION

Name and address of work EGE UNIVERSITY, FACULTY OF PHARMACY, DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY, 35100, BORNOVA, IZMIR-TURKEY

Type of business or sector ACADEMIC

### **Education and training**

**University:** Ege University, Faculty of Pharmacy,

**Master of Science:** Ege University, Faculty of Pharmacy,  
Department of Pharmaceutical Technology

**PhD:** Ege University, Faculty of Pharmacy,  
Department of Pharmaceutical Technology

### **Personal skills and competences**

Mother tongue(s) **Turkish**

Other language(s) **English**

### **Papers**

1. SARIISK AYSE MERIH, KARAVANA SINEM YAPRAK,TÜRKÖGLU GIZEM CEYLAN, RENÇBER SEDA, ÖNDER TOLGA (2017). Preparation and characterization of textile-based carrier systems for anal fissure treatment. journal of microencapsulation, 34(8), 722-731., Doi: <https://doi.org/10.1080/02652048.2017.1393113>

2. YILMAZ CATALINA NATALIA CHEABURU, KARAVANA SINEM YAPRAK,YILMAZ ONUR (2017). Grafted Copolymer Based on Chitosan and Poly(N-Isopropylacryl Amide) via Click Technique. I. Synthesis and Characterization. WSEAS Transactions on Biology and Biomedicine, 2017(14), 120-128.
3. RENÇBER SEDA, KARAVANA SINEM YAPRAK, SENYIGIT ZEYNEP,ERAÇ BAYRI,HOSGÖR LIMONCU MINE, BALOGLU ESRA (2016). Mucoadhesive in situ gel formulation for vaginal delivery of clotrimazole formulation preparation and in vitro in vivo evaluation. Pharmaceutical Development and Technology, 1-11., Doi: 10.3109/10837450.2016.1163385
4. RENÇBER SEDA, KARAVANA SINEM YAPRAK,YILMAZ FETHIYE FERDA,ERAÇ BAYRI, NENNI MERVE,ÖZBAL SEDA,PEKÇETİN ÇETİN,GÜRER ORHAN HANDE,HOSGÖR LIMONCU MINE,GÜNERİ PELİN, ERTAN GÖKHAN (2016). Development characterization and in vivo assessment of mucoadhesive nanoparticles containing fluconazole for the local treatment of oral candidiasis. International Journal of Nanomedicine, 11, 2641-2653., Doi: 10.2147/IJN.S103762
5. ILEM ÖZDEMİR DERYA, KARAVANA SINEM YAPRAK, SENYIGIT ZEYNEP, ÇALISKAN ÇAGRI, EKINCI MELİHA, ASIKOGLU MAKBULE, BALOGLU ESRA (2016). Radiolabeling and cell incorporation studies of gemcitabine HCl microspheres on bladder cancer and papilloma cell line. Journal of Radioanalytical and Nuclear Chemistry(310), 515-522. (Yayın No: 3021472)
6. SENYIGIT ZEYNEP, KARAVANA SINEM YAPRAK,ILEM ÖZDEMİR DERYA,ÇALISKAN ÇAGRI, WALDNER CLAUDİA, SEN SAIT, BERNKOPSCHNÜRCH ANDREAS, BALOGLU ESRA (2015). Design and evaluation of an intravesical delivery system for superficial bladder cancer preparation of gemcitabine HCl loaded chitosan thioglycolic acid nanoparticles and comparison of chitosan poloxamer gels as carriers. International Journal of Nanomedicine, 10, 6493 - 6507., Doi: <http://dx.doi.org/10.2147/IJN.S93750>
7. ÖZYAZICI MINE, FIRLAK MELİKE, TUNCAY TANRIVERDİ SAKİNE,RENÇBER SEDA,KARAVANA SINEM YAPRAK, KAHRAMAN MEHMET VEZİR (2015). Bioadhesive Gel and Hydrogel Systems for Buccal

Delivery of Ketoprofen Preparation and In vitro Evaluation Studies. American Journal of Drug Delivery and Therapeutics, 2(3)

8. ALGIN YAPAR EVREN,INAL ÖZGE,TUNCAY TANRIVERDI SAKINE,KARAVANA SINEM YAPRAK (2014). Transdermal Delivery of Meloxicam Proniosomes from Hydrogels. latin american journal of pharmacy, 33(3), 476-482.

9. ARICI MESUT, TOPBAS ÖZLEM,KARAVANA SINEM YAPRAK,ertan gökhan,SARIISIK AYSE MERIH,ÖZTÜRK CİHAN (2014). Preparation of Naproxen Ethyl Cellulose Microparticles by Spray Drying Technique and Their Application to Textile Materials. journal of microencapsulation:micro and nano carriers, 31(7), 654-666.

10. SENYIGIT ZEYNEP,KARAVANA SINEM YAPRAK,ERAÇ BAYRI,gürsel özge,HOSGÖR LIMONCU MINE,BALOGLU ESRA (2014). Evaluation of chitosan based vaginal bioadhesive gelformulations for antifungal drugs. acta pharmaceutica, 64, 139-156.

11. SARIISIK AYSE MERIH, ARICI MESUT, TOPBAS ÖZLEM,KARAVANA SINEM YAPRAK,ÖZTÜRK CİHAN,ERTAN GÖKHAN (2013). Design Of Orthopedic Support Material Containing Diclofenac Sodium Microparticles Preparation and Characterization of Microparticles and Application to Orthopedic Support Material. textile research journal, 83(10), 1030-1043.

12. KARAVANA SINEM YAPRAK, GÖKÇE EVREN HOMAN,RENÇBER SEDA,ÖZBAL SEDA,PEKÇETİN ÇETİN,GÜNERİ PELİN,ERTAN GÖKHAN (2012). A new approach to the treatment of recurrent aphthous stomatitis with bioadhesive gels containing cyclosporine A solid lipid nanoparticles in vivo in vitro examinations. International Journal of Nanomedicine, 7, 5693-5704., Doi:10.2147/IJN.S36883

13. KARAVANA SINEM YAPRAK, RENÇBER SEDA, SENYIGIT ZEYNEP,BALOGLU ESRA (2012). A new in situ gel formulation of itraconazole for vaginal application. pharmacology&pharmacy, 3, 417-426.

14. KARAVANA HÜSEYİN ATA, KARAVANA SINEM YAPRAK,TUNCAY TANRIVERDI SAKINE,ÖZER KEVSER ÖZGEN (2011). The Promising Emulsion

Formulations of Ostrich Oil produced from Pre fleshing wastes of Ostrich Skin. *asian chemistry letter*, 16(1), 31-36.

15. KARAVANA SINEM YAPRAK, SEZER FATMA BAHAR, GÜNERİ PELİN, VERAL ALI, BOYACIOĞLU HAYAL, ERTAN GÖKHAN, EPSTEİN JB (2011). Efficacy of topical benzydamine hydrochloride gel on oral mucosal ulcers an in vivo animal study. *Int. J. Oral Maxillofac. Surg.* , 40(9), 973-978., Doi:10.1016/j.ijom.2011.02.034

16. BALOĞLU ESRA, SENYİĞİT ZEYNEP, KARAVANA SINEM YAPRAK, ANNA VETTER, METİN DİLEK YESİM, SÜHEYLA HİLMİOĞLU POLAT, TAMER GÜNERİ, ANDREAS BERNKOP SCHNÜRCH (2011). In Vitro Evaluation of Mucoadhesive Vaginal Tablets of Antifungal Drugs Prepared with Thiolated Polymer and Development of a New Dissolution Technique for Vaginal Formulations. *chemical & pharmaceutical bulletin*, 59(8), 952-958.

17. BALOĞLU ESRA, KARAVANA SINEM YAPRAK, SENYİĞİT ZEYNEP, SÜHEYLA HİLMİOĞLU POLAT, METİN DİLEK YESİM, ZEKİOĞLU OSMAN, TAMER GÜNERİ, JONES DAVID (2011). In situ gel formulations of econazole nitrate preparation and in vitro and in vivo evaluation. *Journal of Pharmacy and Pharmacology*, 63(10), 1274-1282. Doi: 10.1111/j.2042-7158.2011.01315.x

18. BALOĞLU ESRA, KARAVANA SINEM YAPRAK, İSMAİL YUKSEL HYUSEİN, KÖSE TIMUR (2010). Design and Formulation of Mebeverine HCl Semisolid Formulations for Intraorally Administration. *AAPS PharmSciTech*, 11(1), 181-188. Doi: 10.1208/s12249-009-9374-3

19. BALOĞLU ESRA, SENYİĞİT ZEYNEP, KARAVANA SINEM YAPRAK, ANDREAS BERNKOP SCHNÜRCH (2009). Strategies to Prolong the Intravaginal Residence Time of Drug Delivery Systems. *JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES*, 12(3), 312-336.

20. KARAVANA SINEM YAPRAK, GÜNERİ PELİN, ERTAN GÖKHAN (2009). Benzydamine hydrochloride buccal bioadhesive gels designed for oral ulcers Preparation rheological textural mucoadhesive and release properties. *Pharmaceutical Development and Technology*, 14(6), 623-631. Doi:10.3109/10837450902882351

21. ÖZYAZICI MINE, GÖKÇE EVREN HOMAN, KARAVANA SINEM YAPRAK, TANER SENYİĞİT, ÖZYURT DOĞAN, PEKÇETİN ÇETİN (2006). Dissolution and

Vaginal Absorption Characteristics of Metronidazole and Ornidazole. *Pharmazie*, 61(10), 855-861.

22. BALOGLU ESRA, ÖZYAZICI MINE, KARAVANA SINEM YAPRAK, TANER SENYİĞİT, DOĞAN ÖZYURT, PEKÇETİN ÇETİN (2006). Bioadhesive Controlled Release Systems of Ornidazole for Vaginal Delivery. *Pharmaceutical development and technology*

23. BALOGLU ESRA, KARAVANA SINEM YAPRAK, KARAVANA HÜSEYİN ATA (2004). An Alternative Evaluation Method for Swelling Studies of Bioadhesive Tablet Formulations. *Pharmaceutical development and technology*, 9, 1-5.

24. BALOGLU ESRA, ÖZYAZICI MINE, KARAVANA SINEM YAPRAK, KARAVANA HÜSEYİN ATA (2003). An in Vitro Investigation for Vaginal Bioadhesive Formulation Bioadhesive Properties and Swelling States of Polymer Mixtures. *Il Farmaco*, 58, 391-396.

25. BALOGLU ESRA, KARAVANA SINEM YAPRAK, SENYİĞİT ZEYNEP, TAMER GÜNERİ (1900). Rheological and mechanical properties of poloxamer mixtures as amucoadhesive gel base. *PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY*, 16(6), 627-636., Doi: 10.3109/10837450.2010.508074

26. KARAVANA SINEM YAPRAK, SENYİĞİT ZEYNEP, SULEYHA HİLMİOĞLU-POLAT, METİN DİLEK YESİM, ZEKİOĞLU OSMAN, BALOGLU ESRA (1900). Mucoadhesive In Situ Gel Formulations of Miconazole Nitrate for the Treatment of Mucosal Candidiasis. *LATIN AMERICAN JOURNAL OF PHARMACY*, 31(6), 821-829.

### **Poster presentations**

1. SARIISIK AYSE MERİH, ERKAN GÖKHAN, KARTAL GÜLSAH EKİN, TÜRKÖĞLU GİZEM CEYLAN, KARAVANA SINEM YAPRAK (2017). Aromaterapik Tekstiller. 1. Uluslararası Katılımlı Kozmetik Kongresi (Özet Bildiri/Davetli Konuşmacı)(Yayın No:3625265)
2. KARAVANA SINEM YAPRAK (2017). Kozmetotekstillerde ürün geliştirme. 1. uluslararası katılımlı kozmetik kongresi (/Davetli Konuşmacı)(Yayın No:3896775)

3. RENÇBER SEDA,KARAVANA SINEM YAPRAK,YILMAZ FETHİYE FERDA,ERAÇ BAYRI,NENNI MERVE,GÜRER ORHAN HANDE,HOSGÖR LIMONCU MINE,ERTAN GÖKHAN (2017). Fluconazole Mucoadhesive In Situ Gel and Oral Strip Formulations: In Vitro Performance. Controlled Release Society Annual Meeting Exposition (Özet Bildiri/Poster)(Yayın No:3576120)
4. RENÇBER SEDA,KARAVANA SINEM YAPRAK (2017). Development of Voriconazole Mucoadhesive Nanoparticle Formulation. Controlled Release Society Annual Meeting Exposition (Özet Bildiri/Poster)(Yayın No:3576112)
5. YILMAZ CATALINA NATALIA CHEABURU,KARAVANA SINEM YAPRAK,YILMAZ ONUR (2017). Functionalized Chitosan Based Matrices for in vitro Delivery of Voriconazole. The 21st International Conference of Inventics, 46-55. (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:3755829)
6. YILMAZ CATALINA NATALIA CHEABURU,KARAVANA SINEM YAPRAK,YILMAZ ONUR (2017). Functionalization of chitosan by click chemistry. 2017 International Conference on Environment, Chemical Engineering Materials, 1918(1), 200091-200096., Doi: 10.1063/1.5018504 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:3755742)
7. Algın Yapar Evren,RENÇBER SEDA,KARAVANA SINEM YAPRAK (2017). Nanotextiles in Pharmaceutical Applications. IVEK 3rd International Convention of Pharmaceuticals and Pharmacies (Özet Bildiri/Poster)(Yayın No:3576101)
8. Algın yapar evren,KARAVANA SINEM YAPRAK (2017). Pediatric Medicines Application Devices. 3.IVEK uluslararası ilaç ve eczacılık kongresi (Özet Bildiri/Poster)(Yayın No:3897953)
9. KARAVANA HÜSEYİN ATA, RENÇBER SEDA,KARAVANA SINEM YAPRAK,Yalçın Fatih (2017). Encapsulated Chlorhexidine Digluconate Usage on the Diabetic Footwear Upper Leathers. XXXIV International Union of Leather Technologists and Chemists Societies (IULTCS), 1, 43-51. (Tam Metin Bildiri/Poster)(Yayın No:3576132)
10. KARAVANA HÜSEYİN ATA,RENÇBER SEDA,KARAVANA SINEM YAPRAK,YALÇIN FATİH (2017). Encapsulated Chlorhexidine Digluconate Usage on the Diabetic Footwear Upper Leathers. XXXIV IULTCS Congress, 1, 43-51. (Tam Metin Bildiri/Poster)(Yayın No:3877398)
11. KARAVANA HÜSEYİN ATA,RENÇBER SEDA,KARAVANA SINEM YAPRAK,YALÇIN FATİH (2016). Encapsulated Chlorhexidine Digluconate Usage

on the Diabetic Footwear Lining Leathers. The 6th International Conference on Advanced Materials and Systems ICAMS 2016, 257-262. (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:3248318)

12. KARAVANA SINEM YAPRAK, TÜRKÖGLÜ GİZEM CEYLAN,RENÇBER SEDA,SARIISIK AYSE MERİH,önder tolga (2016). Development of Nifedipine Sodium Alginate Microparticle Loaded Textile Materials for Anal Fissure Treatment. 4th Conference on Innovation in Drug Delivery (Özet Bildiri/Poster)(Yayın No:3229304)
13. RENÇBER SEDA, KARAVANA SINEM YAPRAK,YILMAZ FETHİYE FERDA,ERAÇ BAYRI,NENNI MERVE,GÜRER ORHAN HANDE,HOSGÖR LIMONCU MINE,ertan gökhan (2016). Preparation of Oral Strips Containing Fluconazole for Treatment of Oral Candidiasis. 4th Conference on Innovation in Drug Delivery (Özet Bildiri/Poster)(Yayın No:3229704)
14. RENÇBER SEDA, KARAVANA SINEM YAPRAK, Sandri Guiseppina,bonferoni christina maria,caramella carla,ertan gökhan,ÖZER KEVSER ÖZGEN (2016). Spray Dried Mucoadhesive Microparticle of Fluconazole for Buccal Delivery. 4th Conference on Innovation in Drug Delivery (Özet Bildiri/Poster)(Yayın No:3229593)
15. KARAVANA SINEM YAPRAK,RENÇBER SEDA,YENGİN ÇİĞDEM,dedeoglu ebru,gülbüz koray,BALOĞLU ESRA,ÖZER KEVSER ÖZGEN (2016). In Vitro Evaluation of Isotretinoin Gel Formulation for Acne Vulgaris Treatment. 4th Conference on Innovation in Drug Delivery (Özet Bildiri/Poster)(Yayın No:3229863)
16. SENYİĞİT ZEYNEP,KARAVANA SINEM YAPRAK,İLEM ÖZDEMİR DERYA,ÇALISKAN ÇAĞRI,BALOĞLU ESRA (2016). Dilution of Gemcitabine HCl loaded chitosan gels with serum physiologic before the intravesical administration to facilitate the application. 4th Conference on Innovation in Drug Delivery (Özet Bildiri/Poster)(Yayın No:3230058)
17. RENÇBER SEDA,TÜRKÖGLÜ GİZEM CEYLAN,KARAVANA SINEM YAPRAK,SARIISIK AYSE MERİH,Tolga Önder (2016). Lidocaine hydrochloride microparticles Loaded tekstile Materials for anal fissure Treatment. 18 th International Pharmaceutical Technology Symposium (Tam Metin Bildiri/Poster)(Yayın No:3280014)
18. SENYİĞİT ZEYNEP, KARAVANA SINEM YAPRAK, İLEM ÖZDEMİR DERYA,ÇALISKAN ÇAĞRI,WALDNER CLAUDIA,BERNKOP SCHNÜRCH ANDREAS,BALOĞLU ESRA (2016). Comparison of Different Chitosan Types for

the Preparation of Intravesically Administered Gemcitabine HCl Nanoparticles.18th International Pharmaceutical Technology Symposium, 150-152. (Tam Metin Bildiri/Poster)(Yayın No:3247825)

19. RENÇBER SEDA, KARAVANA SINEM YAPRAK,ertan gökhan (2016). In situ gel formulations Containing Fluconazole Nanoparticles For Oral Candidiasis Treatment. 18th International Pharmaceutical Technology Symposium (Tam Metin Bildiri/Poster)(Yayın No:3279909)
20. KARAVANA SINEM YAPRAK,SENYIGIT ZEYNEP,ÇALISKAN ÇAGRI,Gürsel Özge,SEN SAIT,BALOGLU ESRA (2016). In vitro release ex vivo permeation studies of gemcitabine hydrochloride microspheres for intravesical applications. 4th Conference on Innovation in Drug Delivery (Özet Bildiri/Poster)(Yayın No:3230212)
21. Yilmaz Catalina Natalia,KARAVANA SINEM YAPRAK,Yilmaz Onur (2016). Functionalized Chitosan by RAFT for Pharmaceutical Formulations. 46th IUPAC WORLDPOLYMER CONGRESS (Özet Bildiri/Poster)(Yayın No:3292617)
22. TÜRKOKLU GIZEM CEYLAN,KARAVANA SINEM YAPRAK,önder tolga,RENÇBER SEDA,SARIISIK AYSE MERIH (2016). Anal Fissür Tedavisinde Kullanılacak Mikropartikül İçeren Medikal Tekstil Ürünlerinin Tasarımı. VIII. Uluslararası AR-GE Proje Pazarı (Özet Bildiri/Poster)(Yayın No:3230557)
23. erzurumlu yalçın,SEVIN GÜLNUR,SENYIGIT ZEYNEP,KARAVANA SINEM YAPRAK,BALOGLU ESRA (2015). In vitro evaluation of intravesical gel formulations of gemcitabine HCl loaded nanoparticles on bladder cancer cell lines. The Second Congress of the Serbian Association for Cancer Reseach (Özet Bildiri/Poster)(Yayın No:2185132)
24. SEVIN GÜLNUR,erzurumlu yalçın,KARAVANA SINEM YAPRAK,SENYIGIT ZEYNEP,ILEM ÖZDEMİR DERYA,ÇALISKAN ÇAGRI,BALOGLU ESRA (2015). Cytotoxic effects of gemcitabine HCl loaded microspheres and nanoparticles on bladder cancer cell lines. 11th International Symposium on Pharmaceutical Sciences (ISOPS) (Tam Metin Bildiri/Poster)(Yayın No:2184608)
25. ILEM ÖZDEMİR DERYA, KARAVANA SINEM YAPRAK,SENYIGIT ZEYNEP,EKINCI MELIHA,Erzurumlu yalçın,ÇALISKAN ÇAGRI,ASIKOGLU MAKBULE,BALOGLU ESRA (2015). In vitro incorporation studies of radiolabeled mucoadhesive microspheres at bladder carcinoma cell lines. 11th International Symposium on Pharmaceutical Sciences (ISOPS) (Tam Metin Bildiri/Poster)(YayınNo:2184771)



26. SENYIGIT ZEYNEP, ILEM ÖZDEMİR DERYA, KARAVANA SINEM YAPRAK, ÇALISKAN ÇAGRI, waldner claudia, BernkopSchnurch Andres, BALOGLU ESRA (2015). Effect of residual urine in bladder to intravesically applied chitosan and poloxamer gels. 11th International Symposium on Pharmaceutical Sciences (ISOPS) (Tam Metin Bildiri/)(Yayın No:2185052)
27. SEVIN GÜLNUR, erzurumlu yalçın, KARAVANA SINEM YAPRAK, SENYIGIT ZEYNEP, ILEM ÖZDEMİR DERYA, ÇALISKAN ÇAGRI, BALOGLU ESRA (2015). Antitumor activity of gels containing gemcitabine HCl loaded microspheres and nanoparticles on bladder cancer cell lines. 11th International Symposium on Pharmaceutical Sciences (ISOPS) (Tam Metin Bildiri/)(Yayın No:2184496)
28. ILEM ÖZDEMİR DERYA, KARAVANA SINEM YAPRAK, SENYIGIT ZEYNEP, EKINCI MELİHA, Erzurumlu yalçın, ÇALISKAN ÇAGRI, ASIKOGLU MAKBULE, BALOGLU ESRA (2015). Radiolabeled bioadhesive microspheres loaded chitosan gel formulations incorporation to the bladder papilloma and carcinoma cell lines. 11th International Symposium on Pharmaceutical Sciences (ISOPS) (Tam Metin Bildiri/)(Yayın No:2184934)
29. KARAVANA SINEM YAPRAK, SENYIGIT ZEYNEP, ÇALISKAN ÇAGRI, BALOGLU ESRA (2015). Development of intravesical gel formulation of gemcitabine hydrochloride microparticles. Challenges in Science and Technology of Polymer Materials (Özet Bildiri/)(Yayın No:2183958)
30. SENYIGIT ZEYNEP, KARAVANA SINEM YAPRAK, ILEM ÖZDEMİR DERYA, ÇALISKAN ÇAGRI, Waldner Claudia, BernkopSchnürch Andres, BALOGLU ESRA (2015). A thermo gelling and bioadhesive delivery system for intravesical administration of gemcitabine HCl. Challenges in Science and Technology of Polymer Materials (Özet Bildiri/)(Yayın No:2184126)
31. RENÇBER SEDA, CheaburuYılmaz Catherina, KARAVANA SINEM YAPRAK (2015). Alginate chitosan complexes for semi solid pharmaceutical formulations. Challenges in Science and Technology of Polymer Materials (Özet Bildiri/)(Yayın No:2184241)
32. SENYIGIT ZEYNEP, ILEM ÖZDEMİR DERYA, KARAVANA SINEM YAPRAK, ÇALISKAN ÇAGRI, SEN
33. SAIT, BALOGLU ESRA (2015). Evaluation of chitosan nanoparticles for intravesical administration of gemcitabine HCl for the treatment of superficial bladder cancer. 1st European Conference on Pharmaceutics (Tam Metin Bildiri/)(Yayın No:2183868)

34. KARAVANA SINEM YAPRAK,SENYIGIT ZEYNEP,ÇALISKAN ÇAGRI,BALOGLU ESRA (2015). In situ gel formulation for Intravesical gemcitabine hydrochloride installation. 1st European Conference on Pharmaceutics (Tam Metin Bildiri/)(Yayın No:2183036)
35. SENYIGIT ZEYNEP,KARAVANA SINEM YAPRAK,ILEM ÖZDEMİR DERYA,ÇALISKAN ÇAGRI,BALOGLU ESRA (2015). Evaluation and comparison of chitosan and poloxamer gels used for intravesical administration of gemcitabine HCl loaded nanoparticles. International Conference on Pharmaceutical Sciences (ICPS 2015) (Özet Bildiri/)(Yayın No:2182840)