


1. Personal Information		
Name/Surname	Cem Varan	
Nationality	Turkish	
Place/Date of Birth	İstanbul, 01.01.1987	
Marital status	Married	
Phone	+90(535)7782666	
E-mail	varancem@hacettepe.edu.tr varancem@gmail.com	
2. Education & Training		
2.1. Ph.D		
Hacettepe University/Institute of Science	Date of Graduation: 06.12.2017	
Nanotechnology & Nanomedicine Division	Degree: 3,93/4	
2013-2017	Ankara/Turkey	
Thesis Title: Preparation and Characterization of Drug Loaded Nanoparticle Formulations for The Treatment of HPV-Related Cervical Cancer by Printing Technology		
Supervisor: Prof. Dr. Erem Bilensoy		
2.2. M.Sc.		
Hacettepe University/Institute of Science	Date of Graduation: 12.02.2013	
Nanotechnology & Nanomedicine Division	Degree: 3,93/4	
2010-2013	Ankara/Turkey	
Thesis Title: Design and in vitro Evaluation of Docetaxel-Loaded Cationic Nanoparticles for Brain Glioma Treatment		
Supervisor: Prof. Dr. Erem Bilensoy		
2.3. Bachelor's degree		
Hacettepe University/Science Faculty	Date of Graduation: 07.06.2010	
Department of Biology	Degree: 3,18/4	
2005-2010	Ankara/Turkey	
2.1.4. Bachelor's degree		
Anadolu University/Faculty of Business Administration	Date of Graduation: 12.09.2011	
Department of Business Administration	Degree: 64,64/100	
2007-2011	Eskişehir/Turkey	
2.1.5. High School		
Maltepe Kadir Has Anadolu High School		
2001-2005	İstanbul/Turkey	
3. Work Experience		
3.1. Instructor		
Hacettepe University Faculty of Pharmacy Department of Pharmaceutical Technology	April 2018-	

4. Projects

4.1. Preparation, characterization and in vitro evaluation of anticancer and antiviral drug loaded cyclodextrin nanoparticle formulations using inkjet printing technology for the local treatment of HPV-induced cervical

TÜBİTAK 3001 Starting R&D Grant

Scholarship student

Project No: 114S793

Date: 1.10.2014-1.10.2015

4.2. Evaluation of paclitaxel loaded cyclodextrin nanoparticle antitumoral activity

Hacettepe University Research Unit Research Grant

Researcher

Project No: TSA-2017-14496

Date: 2017-

4.3. Nanosponge: Organic Toxic Molecules Absorption, an Innovative Therapeutical Approach to Chronical Kidney Disease

ERANET Incomera Project,

Researcher

Project No: 9160037

Date: 2017-

4.4. Investigation of controlled ACPA release system on CB1 receptor mediated antiproliferative and apoptotic effect in endometrial cancer

Hacettepe University Research Unit Research Grant

Researcher

Project No: 17032

Date: 2018-

4.5. Investigation of possible antiproliferative and proapoptotic effect of cannabinoids mediated by CB receptors in non-small cell lung adenocarcinoma

Hacettepe University Research Unit Research Grant

Researcher

Project No: 17387

Date: 2018-

4.6. Imaging of the cyclodextrin nanoparticle-based controlled ACPA delivery system on endometrial cancer by quantum dot marking in an in vivo animal model

Hacettepe University Research Unit Research Grant

Researcher

Proje No : 17748

Date: 2019-

4.7. Development and in vitro analysis of bone marrow targeted endocannabinoid-loaded nanoparticular drug delivery system

TÜBİTAK 3501 Career Development Grant

Researcher

Proje No: 119S182

Date: 2019-

4.8. Design and Characterization of an Implantable and Personalized Drug Delivery System Prepared with 3D Printer for the Local Treatment of Uterine Cancer

TÜBİTAK 1001 Scientific Research Grant

Principal Investigator

Proje No: 119S809

Date: 2019-

5. Awards

5.1. Best Oral Presentation Award

Preparation and Characterization of Antiviral and Anticancer Drug Printed Film Formulations for the Treatment of Cervical Cancer

SANKO University Innovation in Medicine Summit III Congress

11-13.06.2017

Gaziantep/Turkey

5.2. Bronze Medal (Invention Award)

Cannabinoid 1 Receptor Agonist Arachidonyl Cyclopropylamide (ACPA) in Non Small Cell Lung Cancer

4th Istanbul International Invention Fair

17-20.09.2019

Istanbul/Turkey

6. Scholarships

6.1. Finnish Government Scholarship for PhD Students

6.2. TUBİTAK 2211/c PhD Scholarship intended for Priority Areas

7. Publications

7.1. Articles

7.1.1. **Varan, C.**, Bilensoy, E., Development of implantable hydroxypropyl- β -cyclodextrin coated polycaprolactone nanoparticles for the controlled delivery of docetaxel to solid tumors, *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 80, 9-15 (2014)

7.1.2. Varan, G., **Varan, C.**, Erdoğan, N., Hıncal, A.A., Bilensoy, E., Amphiphilic cyclodextrin nanoparticles, *International Journal of Pharmaceutics*, 531, 457-469 (2017)

7.1.3. **Varan, C.**, Bilensoy, E., Cationic PEGylated polycaprolactone nanoparticles carrying post-operation docetaxel for glioma treatment, *Beilstein Journal of Nanotechnology*, 8, 1446-1456 (2017)

7.1.4. **Varan, C.**, Wickström, H., Sandler, N., Aktas, Y., Bilensoy, E., Inkjet printing of antiviral PCL nanoparticles and anticancer cyclodextrin inclusion complexes on bioadhesive film for cervical administration, *International Journal of Pharmaceutics*, 531, 701-713 (2017)

7.1.5. **Varan, C.**, Şen, M., Sandler, N., Aktas, Y., Bilensoy, E., Mechanical characterization and ex vivo evaluation of anticancer and antiviral drug printed bioadhesive film for the treatment of cervical cancer, *European Journal of Pharmaceutical Sciences*, 130, 114-123 (2019)

7.2. Book Chapters

7.2.1. Bilensoy, E., Işık, G., **Varan, C.**, Chapter 11: Cationic polymer nanoparticles for drug and gene delivery, *Cationic Polymers in Regenerative Medicine* (Editör: Sangram K. Samal, Peter Dubruel) RSC Polymer Chemistry Series No.13, the Royal Society of Chemistry (2015)

7.2.2. Erdoğan, N., Varan, G., **Varan, C.**, Bilensoy, E. "Cyclodextrin based polymeric nanosystems", Grumezescu, A. (Ed), *Drug Targeting and Stimuli Sensitive Drug Delivery Systems*, Elsevier, ISBN: 978-0-12-813689-8, p. 715-748. (2018)

7.2.3. Erdoğan, N., **Varan, C.**, Varan, G., Bilensoy, E." Biodistribution of polymeric, polysaccharide and metallic nanoparticles", Peelttonen, L. (Ed) *Characterization of Pharmaceutical Nano- and Microsystems*, Wiley, ISBN: 978-1-119-41404-9. (2019)

<p>7.2.4. Varan, C., Varan, G., Erdoğan, N., Bilensoy, E. “Cyclodextrin based nano systems: Current status and future prospects”, Demetzos, C., Pispas, S., Pippa, N. (Eds) Drug Delivery Nanosystems: From Bioinspiration and Biomimetics to Clinical Applications” Pan Stanford Publishing, ISBN: 978-9-81477-492-5. (2019)</p>
<p>7.2.5. Varan G., Varan C., Bilensoy E. “Plant based natural polymeric nanoparticles as promising carriers for anticancer therapeutics”, Kesharwani, A. (Ed.). Polymeric nanoparticles as promising tool for anticancer therapeutics, Academic Press, ISBN: 978-0128169636. (2019)</p>
<p>7.3. Oral Presentation</p>
<p>7.3.1. Varan, C., Sandler, N., Aktaş, Y., Bilensoy, E., Nanoparticulate Cidofovir and Paclitaxel-Cyclodextrin Complex Combination in Ink Jet Printed Adhesive Film for HPV Infection, 4th European Conference on Cyclodextrins, 6-9.10.2015, Lille, France</p>
<p>7.3.2. Varan, C., Şen, M., Sandler, N., Bilensoy, E., Preparation and Characterization of Antiviral and Anticancer Drug Printed Film Formulations for the Treatment of Cervical Cancer, SANKO University Innovation in Medicine Summit-3, 11-13.05.2017, Gaziantep, Turkey</p>
<p>7.3.3. Varan, C., Sandler, N., Bilensoy, E., Anticancer and Antiviral Drug Printed Bioadhesive Film for Cervical Cancer: Ink Formulation Development by using Cyclodextrin Derivatives, 5th European Conference on Cyclodextrins, 3-6.10.2017, Lisbon, Portugal</p>
<p>7.3.4. Varan, C., Anceschi, A.A., Sevlı, S., Bruni, N., Giraudo, L., Trotta, F., Bilensoy, E., Cyclodextrin-based Nanosponges for Organic Toxic Molecule Removal from Gastrointestinal Fluid, 6th European Conference on Cyclodextrins, 2-4.10.2019, Santiago de Compostela, Spain</p>
<p>7.4. Poster Presentation</p>
<p>7.4.1. Varan, C., Bilensoy, E., Core-shell polycaprolactone nanoparticles for rat glioma model: formulation development and characterization, CRS Nordic Chapter Meeting, 3-5.6.2012, Reykjavik, Iceland</p>
<p>7.4.2. Varan, C., Bilensoy, E., Polycaprolactone nanoparticles for rat glioma model: influence of formulation parameters on the particle size and zeta potential, 8th Nanoscience and Nanotechnology Congress & International Academy of Nanomedicine 3rd World Congress, 25-29.6.2012, Ankara, Turkey</p>
<p>7.4.3. Varan, C., Bilensoy, E., Docetaxel-loaded core-shell polycaprolactone nanoparticles: formulation development and characterization, 16th International Pharmaceutical Technology Symposium, 10-12.9.2012, Antalya, Turkey</p>
<p>7.4.4. Varan, C., Bilensoy, E., Docetaxel-loaded cationic core-shell polycaprolactone nanoparticles designed for rat glioma model, 9th Central European Symposium on Pharmaceutical Technology: CESPT 2012, 20-22.9.2012, Dubrovnik, Croatia</p>
<p>7.4.5. Varan, C., Bilensoy, E., Development of Docetaxel loaded Hydroxypropyl-β-Cyclodextrin Polycaprolactone Nanoparticles for The Treatment of Solid Tumors, 3rd European Conference on Cyclodextrins, 2-4.10.2013, Antalya, Turkey</p>
<p>7.4.6. Varan, C., Bilensoy, E., Docetaxel loaded Core-Shell Hydroxypropyl-β-Cyclodextrin Polycaprolactone Nanoparticles: Formulation Development and in-vitro Characterization, 17th International Pharmaceutical Technology Symposium, 8-10.9.2014, Antalya, Turkey</p>
<p>7.4.7. Varan, C., Sandler, N., Aktaş, Y., Bilensoy, E., Preparation and Characterization of Cidofovir and Paclitaxel loaded Bioadhesive Film for the Treatment of HPV-induced Cervical Cancer by Printing Technology, EUFEPS Annual Meeting, 15-17.06.2015, Geneva, Switzerland</p>
<p>7.4.8. Varan, C., Şen, M., Sandler, N., Aktaş, Y., Bilensoy, E., Printing and Characterization of Antiviral and Anticancer Drug Loaded Film Formulation by Using Inkjet Printer, BBBB International Conference on Pharmaceutical Sciences, 5-7.10.2017, Balatánfüred, Hungary</p>
<p>7.4.9. Varan, C., Şen, M., Sandler, N., Aktaş, Y., Bilensoy, E., Mechanical Characterization and ex vivo Evaluation of Inkjet Printed Bioadhesive Film Formulation of Complexed Paclitaxel and Nanoparticulate Cidofovir, EUFEPS Annual Meeting 2018, 24-26.05.2018, Athens, Greece</p>

7.4.10. Boyacıođlu Ö, Bilgiç, E., Varan, C. , Bilensoy, E., Nemutlu, E., Karaosmanođlu, B., Tařkıran, E., Korkusuz, P., Cannabinoid Receptor 1-Mediated Antiproliferative Effect of ACPA and ACPA-PCL Controlled Release System on Non-Small Cell Lung Cancer Lines, EACR Conference Nanotechnology in Cancer: Engineering for Oncology, 12-14.09.2019, Cambridge, UK	
7.4.11. Bilgiç, E., Korkusuz, P., Boyacıođlu Ö, Varan, C. , Bilensoy, E., Nemutlu, E., Karaosmanođlu, B., Tařkıran, E., Development of a new antiproliferative arachydonoylcyclopropilamide (ACPA) releasing nanoparticle-based drug for endometrial cancers by targeting cannabinoid 1 receptors, EACR Conference Nanotechnology in Cancer: Engineering for Oncology, 12-14.09.2019, Cambridge, UK	
8. Patents	
8.1. Cannabinoid 1 Receptor Agonist Arachidonyl Cyclopropylamide (ACPA) in Non Small Cell Lung Cancer	
Turkish Patent and Trademark Office	Patent Application
Application No: TR2019/12451	2019
9. Certificates	
9.1. Research Animal Usage Certificate	
Hacettepe University Animal Experiments Local Ethics Committee	Date of Issue: 14.10.2011
10. Research & Interests	
Nanomedicine & Nanotechnology	Drug Delivery Systems
Inkjet & 3D Printing	Personalized Medicine
Natural and Synthetic Polymers	Cell culture studies