

Fars Kaed Alanazi, Ph.D.

Associate Professor of Pharmaceutics

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Education:

- 1999-2003 **Ph.D.** in pharmaceutics in area of drug delivery and drug targeting, Department of Pharmaceutical and Biomedical Sciences, College of Pharmacy, The University of Georgia, Athens, Georgia, 30602, USA. **Dissertation:** “Application of lipoprotein as drug delivery system for anticancer drug and DNA based vaccine” **Director:** Professor Robert Lu. **Graduated GPA (Excellent , 4 out of 4)**
- 1992-1997 **Bachelor Pharmacy (B. Pharm.)**, College of Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia. **Graduated GPA (Excellent, 4.69 out of 5.0)**
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Employment:

- October 2008-present **Vice President Assistant for Technology Transfer**, Vice President Office for Knowledge Exchange and Technology Transfer, King Saud University, Saudi Arabia
- August 2007- present **Director**, Dr. Walid Kayyali Scientific Chair for Pharmaceutical Industry, College of Pharmacy, King Saud University.

- February 2006- 2008 **Chairman, Department of Pharmaceutics**, College of Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia
- March 2008- present **Associate Professor of Pharmaceutics**, Department of Pharmaceutics, College of Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia
- February 2004- 2008 **Assistant Professor of Pharmaceutics**, Department of Pharmaceutics, College of Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia
- August 1999- Dec 2003 **Graduate Research Student** , Department of Pharmaceutical and Biomedical Sciences, College of Pharmacy, The University of Georgia, Athens, Georgia, 30602, USA
- 1997-1999 **Graduate Teaching Assistant**, College of Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia. Teaching responsibilities was in area of industrial pharmacy and sterile formulations.

Professional and Honorary Membership:

- Association of University Technology Managers (AUTM)
- Saudi Pharmaceutical Society (SPS)
- American Association of Pharmaceutical Sciences (AAPS)
- The University of Georgia Alumni member, UGA Athens, Georgia, 30602, USA

Faculty and Administrative responsibilities:

- 2007-2008** **Consultant** (part time), Aljouf University, Aljouf Provenance, Ministry of Higher education, Kingdom of Saudi Arabia.

- 2007-Present** **Member**, Board Committee of Biotechnologically Excellence Center, King Saud University
- 2007-Present** **Member**, Executive Committee of Biotechnologically Excellence Center, King Saud University
- 2007-2008** **Member**, Blood Product Committee, Saudi Food and Drug Authority, Kingdom of Saudi Arabia
- 2006-2008** **Member**, College of Pharmacy Counseling Committee, College of Pharmacy, King Saud University
- 2005-2007** **Consultant**, Doctor of Pharmacy Program, King Fahad Medical City, Ministry of Health, Riyadh, Saudi Arabia
- 2005-2006** **Coordinator**, Student Admission Assisting Office, United State Scholarship Project, Ministry of Higher Education, Riyadh, and Saudi Arabia
- 2005- 2006** **Chairman**, Internet committee, The Ninth International Pharmaceutical Conference and Exposition, Riyadh, Saudi Arabia
- 2005- 2006** **Member**, Organization committee, The Ninth International Pharmaceutical Conference and Exposition Riyadh, Saudi Arabia
- 2005- 2006** **Member**, Media committee, The Ninth International Pharmaceutical Conference and Exposition, Riyadh, Saudi Arabia
- 2004- 2006** **Member**, Pharmacy Student Training Committee, College of Pharmacy, King Saud University
- 2004-2007** **Member**, Doctor of Pharmacy Curriculum Revision Committee, College of Pharmacy, King Saud University
- 2004- 2007** **Coordinator**, Design and construct department of pharmaceuticals website, College of Pharmacy, King Saud University
- 2004- 2005** **Member**, Saudi Pharmaceutical Society-Voting Committee, Saudi Pharmaceutical Society, Riyadh, Saudi Arabia
- 2004- 2008** **Member**, Master Degree Revision and Evaluation Committee, Department of Pharmaceutics, College of Pharmacy, King Saud University

- 2004- 2008** **Member**, Doctor of Philosophy in Pharmaceutics-Developing Committee, Department of Pharmaceutics, College of Pharmacy, King Saud University
- 2004- Present** **Member**, Laboratory Supplies Committee, Department of Pharmaceutics, College of Pharmacy, King Saud University
- 2004- Present** **Member**, Budget Committee, Department of Pharmaceutics, College of Pharmacy, King Saud University
- 2004- 2008** **Member**, Laboratory and College Safety Committee, Department of Pharmaceutics, College of Pharmacy, King Saud University
- 2004-2003** **Member**, Medical Colleges Standardization Test-Proctor Committee for the admission to medical colleges in King Saud University
- 2002- 2003** **Member**, Finance Committee in GRASP 2002, College of Pharmacy, The University of Georgia, Georgia, USA
- 2000-2002** **Chairman**, Accounting Committee in Al-Huda Islamic Center, Athens, Georgia, USA

Research Area of Interest: Dr Alanazi's research interests are in the area of targeted drug delivery especially in the utilization of plasma components such as lipoprotein and red blood cells as a novel drug delivery. Also, He interested in application of nanotechnology and biotechnology in pharmaceutics

Teaching Expertise:

- PHT 531: Drug Targeting (Graduate Course)
- PHT 560: Seminar 2 (Graduate Course)
- PHT 251: Pharmaceutical Solutions
- PHT 252: Dispersion Systems and Drug Stability
- PHT 351: Sterile dosage forms
- PHT 471: Biopharmaceutics
- PHT 461: Industrial Pharmacy
- PHTR 496: Pharmacy Training-1
- PHTR 497: Pharmacy Training-2
- PHTR 498: Pharmacy Training-3

Graduate Student supervision:

	Name of the student	Degree	Title of Thesis
1	Zaid Mohammad AL-Ashbar	Master	Preparation of Sustained Release Dextromethorphan Microparticles Using The Spray Drying Technique (2006)
2	Amal Yassin Hamed	Master	Formulation and Evaluation of Mucoadhesive System for Nasal Delivery of Haloperidol (2006)
3	Ehab Mostafa Saad El Zayat	Master	Development and Evaluation of an Oral Sustained Release Liquid Dosage Form (2009)
4	Ayman Katramez	Master	Development Of a Recombinant Yeast Clone For Production Of Human Interferon Gamma (2009)
5	Magdi Abdel Hasmid	Ph.D.	Low dose tablets: evaluation, preparation and quality controls (2009)
6	Ahmad Maqboul	Ph.D.	Erythrocytes as novel drug delivery system of anticancer (2009)

Master Thesis Examination Committee:

1	Lubna Yousef Ashri	Metronidazole Benzoate Buccoadhesive Film for the Treatment of Periodontal Diseases (2007)
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Scholarships and Awards:

1. Academic Achievement award for the outstanding students, Leo Pharmaceutical Company, Denmark (1997)

2. Academic achievement award for the excellent Saudi students, Saudi Cultural Mission, Washington, USA (2000-2003)
3. Academic award, Tuition Fee-Waiver Program, Excellent graduate students, Graduate School, The University of Georgia, Athens, GA, USA. (2003)
4. Pharmaceutical Technology and Manufacturing Center, Grant by Dr. Walled AlKayyali (10 million SR.) (2007)
5. Biotechnology Research Excellency Center, Grant from Ministry of Higher Education (45 million SR) (2007).
6. Grant from King Abdulaziz City for Science and Technology, “The Development of New Drug Delivery System for Diagnosis and Treatment of Colon Cancer “(850 thousands SR.) (2006)
7. Grant, “Improvement of the Oral Bioavailability of Spironolactone by Spray Drying Technique”, College of Pharmacy Research Center, (C.P.R.C. 214) (2007).
8. Grant, “Lipid Based Colloidal Drug Delivery System for Enhanced Oral Bioavailability of Low Solubility and Low Permeability Drugs”, College of Pharmacy Research Center, (C.P.R.C. 213) (2007).
9. Grant, “Improvement of the Oral Bioavailability of Albendazole by Spray Drying Technique and some hydrophilic polymers”, College of Pharmacy Research Center, (C.P.R.C. 170) (2006)
10. Grant, “Red Blood Cells as Novel Drug Delivery System to Target anticancer drugs to Liver”, College of Pharmacy Research Center, (C.P.R.C. 144) (2005)
11. Grant, “Effect of Cyclodextrines on the Chemical Stability of Some Commonly Used Antibiotics”, College of Pharmacy Research Center, (C.P.R.C. 130) (2004)
12. Grant, “Formulation and Physicochemical Characterization of Buccoadhesive Films Containing Ketorolac”, College of Pharmacy Research Center, (C.P.R.C. 169) (2004)

Patents:

- There is FIVE patents which have been submitted to the General Directory of Patents, King Abdulaziz City for Science and Technology, Kingdom of Saudi Arabia,
 1. "Novel Buccoadhesive Films containing Ketorolac for Post-oral Surgery Pain Management" Application Number 07280357 (1/7/2007)
 2. " Saudi-Cultived and Produced Starch as Binder and Disintegrant in Comparison to Imported Starch" Application Number 109300198 (25/3/2009)
 3. "Utilization of Date Syrup as Tablet Binder" Application Number 109300197 (25/3/2009)
 4. " Preparation and investigation of acetyl salicylic acid glutamic acid complex: a novel oral drug delivery systems " Application Number 109300287 (11/5/2009)
 5. " Preparation and Investigation of Acetyl salicylic acid-caffeine Complex for Rectal Administration " (submitted) (2009)

Books:

1. **Basis of Industrial Pharmacy**, Walid Kayyali Scientific Chair for Pharmaceutical Industry, College of Pharmacy, King Saud University. (2008)
2. **Immunoliposome: Handbook and Application**, Walid Kayyali Scientific Chair for Pharmaceutical Industry, College of Pharmacy, King Saud University. (2009)
3. **Ghost bacteria as Drug Delivery System** Walid Kayyali Scientific Chair for Pharmaceutical Industry, College of Pharmacy, King Saud University. (2009).
4. **Stability of Pharmaceuticals**, Walid Kayyali Scientific Chair for Pharmaceutical Industry, College of Pharmacy, King Saud University. (2009).
5. **Chapter in book:** Ibrahim A. Alsarra, Amel Y. Hamed, Fars K. Alanazi, and Gamal M. El Maghraby Vesicular systems for intranasal drug delivery. In: Kewal K. Jain, editor. *Drug Delivery to the Central Nervous System*. Humana Press, Inc.: Totowa, NJ, USA, (*In Press*).

Publications:

1. Mohamed A. Ibarhim, Gamal M. Mahrous, Mahmoud El-Badry, **Fars K. Al-Anazi** , Formulation and Characterization of Indomethacin-Loaded Pellets Manufactured by Extrusion/Spheronization: Effect of Cosolvents Addition. (Submitted 2009)
2. Magdi M. Abdel-Hamid and **Fars K. Alanazi**, Simultaneous Determination of Three Quinoline Antimalarials in Human Plasma Using Ultra-Performance Liquid Chromatography–Tandem Mass Spectrometric (to be Submitted 2009)
3. Ahmad Maqboul, Gamal El-Din Harisa, Fars Alanazi, Magdi Abdel-Hamid, Biochemical and hematological evaluation of primaquine-loaded human carrier erythrocytes as a sustained release system: In vitro studies. (to be Submitted 2009)
4. Magdi M. Abdel-Hamida,, Alaa Edeen B. Yassin, Ibrahim A. Alsarra, **Fars K. Alanazi** , Ultra-Performance Liquid Chromatography–Tandem Mass Spectrometric Method for Determination of 5-Aminolevulinic Acid in Colonic Targeted Tablets for Diagnosis of Colon Cancer. (to be submitted 2009)
5. Alaa Eldeen Bakry Yassin, Ibrahim A. Alsarra, **Fars K. Alanazi**, Abdullah M. Al-Mohizea, Abdulrahman A. Al-Robayan and Omar A. Al-Obeed, In vitro and In vivo Evaluation of a new Colon-Specific Delivery of 5-Flurouracil Using X-ray Imaging. (Accepted for publication in Journal of Drug Targeting, 2009)
6. Utilization of Date Syrup as Tablet Binde: comperative study. **Fars K. Alanazi**. (to be submitted 2009)
7. Mounir M. Salem and **Fars K. Al-Anazi**, Microbiological Quality and Occurrence of Aflatoxins in Oral pharmaceutical Preparations. (to be Submitted 2009)
8. El Maghraby GM, **Alanazi FK**, Alsarra IA , Transdermal Delivery of Tadalafil. I. Effect of Vehicles on Skin Permeation. Drug Dev Ind Pharm. 2008 Sep 27:1-8
9. Ehab A. Fouad, Mahmoud EL-Badry, Fars K. Alanazi, Maha M. Arafah, Riyadh Al-Ashban and Ibrahim A. Alsarra, Preparation and investigation of acetyl salicylic acjd glutamic acid complex: a novel oral drug delivery systems, Digest Journal of Nanomaterials and Biostructures Vol. 4, No.2, June 2009, p. 299 – 308

10. Ehab A. Fouad, Mahmoud EL-Badry, Fars K. Alanazi, Maha M. Arafah, Riyadh Al-Ashban and Ibrahim A. Alsarra, Preparation and Investigation of Acetyl salicylic acid-caffeine Complex for Rectal Administration (submitted to Pharmaceutical Development and Technology 2009)
11. Mahmoud EL-Badry, **Fars K. Alanazi**, Gamal M. Mahrous and Ibrahim A. Alsarra, Effects of Kollicoat IR® and hydroxypropyl- β cyclodextrin, on the dissolution rate of omeprazole from its microparticles and enteric coated capsules (Submitted to Drug Dev Ind Pharm 2009)
12. Mahmoud EL-Badry, Fars K. Alanazi, Gamal M. Mahrous and Ibrahim A. Study of Omeprazole stability in aqueous solution: influence of cyclodextrins. (Submitted to Drug Dev Ind Pharm 2009)
13. Alsarra IA, Hamed AY, Mahrous GM, El Maghraby GM, Al-Robayan AA, **Alanazi FK**. Mucoadhesive Polymeric Hydrogels for Nasal Delivery of Acyclovir. Drug Dev Ind Pharm. 2008 Sep 3:1-11.
14. Alsarra IA, Hamed AY, **Alanazi FK**, Acyclovir liposomes for intranasal systemic delivery: development and pharmacokinetics evaluation. Drug Deliv. 2008 Jun;15(5):313-21
15. Yassin AE, **Alanazi FK**, El-Badry M, Alsarra IA, Barakat NS, Preparation and Characterization of Spironolactone-Loaded Gelucire Microparticles Using Spray-Drying Technique. Drug Dev Ind Pharm. 2008 Sep 27:1-8.
16. **Alanazi, F.K.**, Saudi Date Syrup as Pharmaceutical Excipient: Tablet Binder (to be submitted , 2009)
17. Nahla S. Barakat, Fars K. Alanazi , Alanood S. Almurshed, The influence of various amphiphilic excipients on the physicochemical properties of carbamazepine-loaded microparticles , Journal of Microencapsulation, 1–12, (2008)
18. **Alanazi, F.K.**, Alaa Eldeen Yassin, Mahmoud El-Badry, Hammam A. Mowafy and Ibrahim A. Alsarra, Analysis and stability-indicating high performance liquid chromatographic (HPLC) assay for determination of 5-Fluorouracil substance utilizing ultraviolet detection (Accepted in Journal of Chromatographic Science, 2009)
19. **Alanazi, F.K.**, Sayed M. Ahmed, Suliman S. Alhamed, Hammam. A. Mowafy, Ibrahim A. Alsarra and Mohsen A. Bayomi, Inclusion Complexation of Itraconazole with Cyclodextrin Derivatives: Phase Solubility and

- Physicochemical Characterization (Mansours Journal of Pharmaceutical Sciences, 23 (2), (2007)
20. **Alanazi, F.K.** Beyomi M, Bagory I. Mostafa A. and Alsarra I.A., Saudi-Cultived and Produced Starch as Binder and Disintegrant in Comparison to Imported Starch (*Saudi Pharmaceutical Journal, Vol. 16, No. 2, April 2008*)
 21. **Alanazi F.K.**, Evaluation of Certain Amino Acids as Tablet Excipients: Accelerated Disintegration Effects in Tablets Containing Propranolol, *Alex. J. Pharm. Sci.*, 21: 135-146,(2007)
 22. **Alanazi F.K.**, Abdel Rahman A.A., Mahrous G.M. and Alsarra I.A., Formulation and Physicochemical Characterization of Buccoadhesive Films Containing Ketorolac, *J. Drug. Del. Sci. Tech.*, 17: 183-192, (2007)
 23. **Alanazi F.K.**, Evaluation of Spray and Freeze Dried Excipient Bases Containing Disintegration Accelerators for the Formulation of Metoclopramide Orally Disintegrating Tablets, *Saudi Pharmaceutical Journal*, 15: 105-119, (2007)
 24. **Alanazi F.K.**, Stability-Indicating High Performance Liquid Chromatographic Assay of Colchicine, *Scientific Journal of Al-Azhar Medical Faculty*, 28: 987-997, (2007)
 25. Alsarra I.A., Ahmed M.O., El-Badry M., **Alanazi F.K.**, Al-Mohizah A.M. and Ahmed S.M., Effect of B-Cyclodextrin Derivatives on Kinetics of Degradation of Cefotaxime Sodium in Solution State, *J. Drug. Del. Sci. Tech.*,17, 353-357, (2007)
 26. **Alanazi F.K.**, El-Badry M., Ahmed M.O. and Alsarra I.A., Improvement of Albendazole Dissolution by Preparing Microparticles Using Spray-Drying Technique, *Scientia Pharmaceutica (Sci. Pharm.)* 75: 63-79,(2007)
 27. Alsarra I.A., **Alanazi F.K.**, Ahmed S.M., Alhamed S.S. and Mowafy H.A., Preparation and Evaluation of Itraconazole-Cyclodextrin Complexes in Solid State, *Alex.J. Pharm. Sci.*, 21: 47-55, (2007)
 28. Alsarra I.A., **Alanazi F.K.**, Abdel Rahman A.A., Mahrous G.M. and Al Hezaimi K.A. Clinical Evaluation of Novel Buccoadhesive Films Containing Ketorolac in Dental and Post-Oral Surgery Pain Management , *Depharmazie* 62 (10), 773-778 (2007)..
 29. **Alanazi F.K.**, El-Badry M. and Alsarra I.A., Spray-Dried HPMC Microparticles of Indomethacin: Impact of Drug-Polymer Ratio and Viscosity of the Polymeric Solution on Dissolution, *Saudi Pharmaceutical Journal*, 14: 100-107 (2006)

30. **Alanazi, F.**, Fu, Z. F. and Lu, D. R.: Effective transfection of rabies DNA vaccine in cell culture using an artificial lipoprotein carrier system. *Pharmaceutical Research*, 21, 676-683 (2004)
31. **Alanazi, F.**, Halpern, D. S. and Lu, D. R.: Intracerebral diffusion of new cholesterol-based anticancer conjugate in tumor-bearing rat model. *Journal of Applied Research*, 4(1), 1-8 (2004)
32. **Alanazi, F.**, Li, H., Halpern, D.S., Øie, S. and Lu, D. R.: Synthesis, preformulation and liposomal formulation of cholesteryl carborane esters with various fatty chains. *International J. Pharmaceutics*, 255, 189-197 (2003)
33. **Alanazi, F.**, Halpern, D. S., and Lu, D. R.: Development of cholesterol-based conjugates for targeted drug delivery. *STP Pharmaceutical Sciences*, 13, 27-35 (2003)
34. Adams, T., **Alanazi, F.** and Lu, D. R.: Safety and utilization of blood components as therapeutic delivery systems. *Current Pharmaceutical Biotechnology*, 4, 275-282 (2003)

Abstracts Presented in Scientific Meetings:

1. Clinical Evaluation of Novel Buccoadhesive Film Containing Ketorolac in Dental and Post-Oral Surgery Pain Management, Alsarra I.A, **Alanazi, F.K.**, Abdel Rahman A.A., Mahrous G.M and K. Al Hezaimi, 2007 AAPS National Biotechnology Conference, San Diego, California, USA, **2007**
2. A Stability indicating High Performance Liquid Chromatography Method for Determination of Tadalafil. **Alanazi, F.K.** Gamal M, and Alsarra I.A., The 7th International Saudi Pharmaceutical Conference, Page 118, **2007**
3. In Vitro Evaluation of Polymer and Polymer Blends as Tablet Matrices. Ibrahim M. El-Bagory, Nahlah, Fouza K. Al-Enazi, **Alanazi, F.K.**, Mohsen A. Bayomi, The 7th International Saudi Pharmaceutical Conference Page 113, **2007**
4. D. R. Lu, **F. Alanazi**, Z. Fu, New lipoprotein mimics as novel nanoscale DNA vaccine delivery carriers, F10, 2006 FDA Science Forum, A Century of FDA Science: Pioneering the Future of Public Health, April 18-20, 2006, Washington Convention Center

5. Spray-Dried Microparticles of Indomethacin: Impact of Drug-Polymer Ratio and Viscosity of the Polymeric Solution to Enhance Dissolution Rate. **Alanazi, F.K.** El-Badry M. and Alsarra I.A., Presented at the American Association of Pharmaceutical Scientists, 20th Annual Meeting, Nashville, Tennessee USA 2005. The AAPS Journal Vol. 7, No. S2, Abstract W4307 (2005)
6. Intracerebral Diffusion of New Cholesterol-Based Anticancer Conjugate in Tumor-Bearing Rat Model. **Alanazi, F** and Lu, D. R. Presented at the American Association of Pharmaceutical Scientists, 19th Annual Meeting, Baltimore, Maryland USA 2004. The AAPS Journal Vol. 6, No. 4, Abstract T3215 (2004)
7. Effective Transfection of Plasmid DNA Vaccines Using Artificial Lipoprotein Delivery System. S. Wang, **Alanazi, F**, Lu, D. R. Presented at the American Association of Pharmaceutical Scientists, 19th Annual Meeting, Baltimore, Maryland USA, 2004. The AAPS Journal Vol. 6, No. 4, Abstract W5240 (2004)
8. Poly-Peptide Artificial Lipoprotein As A Novel DNA Vaccine Delivery System, **Alanazi, F**, Lu, D. R. Presented at the American Association of Pharmaceutical Scientists, 18th Annual Meeting, Salt Lake city, UT, USA, Maryland USA, 2003. AAPS Pharm.Sci., Vol. 5, No. 4, Abstract W4141 (2003)
9. Antitumor Cholesteryl Carborane Esters With Various Fatty Chains: Synthesis, And Formulation, **Alanazi, F**, Hengguang Li, David S Halpern, Svein Øie, Lu, D. R. Presented at the American Association of Pharmaceutical Scientists, 17th Annual Meeting, Toronto, Ontario, Canada 2002. AAPS Pharm Sci, Vol. 4, No. 4, Abstract W4182 (2002)
10. Biodistribution of a cholesterol-based anticancer conjugate in the brain. **Alanazi, F**, Lu, D. R. Presented at the American Association of Pharmaceutical Scientists, 16th Annual Meeting, Denver, Colorado USA 2001. AAPS Pharm Sci Vol. 3, No. 3, (2001)
11. Cholesterol-Less Liposome for Maximizing the Loading of a New Boron-Cholesterol Conjugate and the Associated Animal Study. **Alanazi, F**, Lu, D. R. Presented at the American Association of Pharmaceutical Scientists, 15th Annual Meeting, Indianapolis, IN, USA 2000. AAPS Pharm Sci, Vol. 2, No. 2, Abstract 1970 (2000)

Summer Training :

(Summer 2007) The Nanotechnology Center at the University of Georgia, Athens, GA, USA

(Summer 2008) The Nanotechnology Center at Georgia Institution of Technology, Atlanta, GA, USA