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## Ziyad Binkhathlan, Ph.D.

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### Personal information

- Nationality: Saudi.
- Date of Birth: 16-June-1980

### Education

- (Sep 2005- Jul 2011): **Ph.D. (Pharmaceutical Sciences)**, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, AB, Canada.
- (Sep 1998-Feb 2004): **B.Sc. (Pharmacy)**, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.

### Professional experience

- (Sep 2015- date): **Vice Dean Designate for Development and Quality** at the College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- (Mar 2014- date): **Director of the Research Center** at the College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- (Mar 2013- Feb 2014): **Deputy-Director of the Research Center** at the College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- (Oct 2011- date): **Assistant Professor**, Department of Pharmaceutics, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- (Jan 2008- Apr 2009): **Teaching Assistant**, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Alberta, Canada.
- (Feb 2004- Jul 2005): **Teaching Assistant**, Department of Pharmaceutics, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.

Editorial  
experience

- 2015- 2018: **Editorial Board member**, World Journal of Clinical Oncology.
- 2011- date: **Reviewer**, Journal of Pharmacy and Pharmaceutical Sciences.
- 2012- date: **Reviewer**, International Journal of Nanomedicine.
- 2013-date: **Reviewer**, Pharmaceutical Nanotechnology.
- 2013-date: **Reviewer**, Drug Delivery Letters.
- 2013-date: **Reviewer**, Current Cancer Drug Targets.

Administrative  
experience

- Sep 2013, Member of the Research Ethics Committee at the College of Pharmacy.
- Sep 2013, Member of the Joint Master Program Committee at the College of Pharmacy.
- Apr 2013, Member of the Scientific Committee for the “Graduate Students Annual Scientific Meeting” at King Saud University.
- May 2012, Member of the Research Center Council at the College of Pharmacy
- Mar 2012, Member of the Executive Committee for Strategic Plan of the College of Pharmacy (2012-2016)
- Jan 2011-date, Pharmacy Students’ Registration Supervisor
- October 2011- date, Coordinator of the Academic Committee at the College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- Jan 2010, Member of the Graduate Students Scholarship Committee, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Canada.
- 2006- 2007, The financial executive at the Saudi Cultural Club, Edmonton, Alberta, Canada.
- Oct 2006, Chair of the first session on the Research Day 2006, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Canada.
- Sep 2004, Member of the Safety and Security Committee of the Department of Pharmaceutics, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- Apr 2004, Member of the Organizing Committee in the 5<sup>th</sup> week of University and Society in King Saud University, Riyadh, Saudi Arabia.

## Awards

- Canadian Chapter of the Controlled Release Society (CC-CRS) Travel Award (2010).
- Dr. L. Chatten Award for 2<sup>nd</sup> best graduate poster in the Research and Development Day 2008 and 2009, Faculty of Pharmacy & Pharmaceutical Sciences, University of Alberta.
- J Gordin Kaplan Graduate Student Award (2008), Faculty of Graduate Studies and Research (FGSR), University of Alberta.
- Dr. L. Chatten Award for 3<sup>rd</sup> best graduate poster in the Research & Development Day 2007, Faculty of Pharmacy & Pharmaceutical Sciences, University of Alberta.

## Grants

Project title	Funding agency	Role	Period	Status
Nanoparticles Development for the Prevention of Tacrolimus-Associated Nephrotoxicity	KSU-KACST	CO.I.	2012-2014	Completed
Development and Characterization of a Novel Nano-sized Formulation for Oral Delivery of Paclitaxel	KSU-KACST	P.I.	2015-2017	Approved

## Abstracts

- Alshamsan A, **Z. Binkhathlan**, A. Alomrani, I. Aljuffali, M. Alghonaim, H. Kfoury, and S. Almuhsen, “Mitigating Tacrolimus Nephrotoxicity by PLGA Nanoparticles: A Comparative In Vivo Study With Prograf<sup>®</sup>”. 42<sup>nd</sup> Annual Meeting and Exposition of the Controlled Release Society (CRS): *Creating Value Through Customized Delivery*. Edinburgh International Conference Centre, Edinburgh, Scotland [July 2015]
- **Ziyad Binkhathlan**, Wajhul Qamar and Raisuddin Ali. “Assessment of acute toxicity of methoxy poly(ethylene oxide)-*block*-poly( $\epsilon$ -caprolactone) (PEO-*b*-PCL) polymeric micelles following oral and intraperitoneal administration to rats”. The Canadian Society for Pharmaceutical Sciences (CSPS) 18<sup>th</sup> Annual Symposium, *Drug Discovery and Development in the Post-Genomic Era*, Toronto, ON, Canada [May 2015]
- **Binkhathlan Z**, “Synthesis and Characterization of Poly( $\epsilon$ -Caprolactone)-vitamin E TPGS Copolymers for Potential Applications in Drug Delivery”. The 1<sup>st</sup> European Conference on Pharmaceutics, Reims, France [April 2015].
- Alshamsan A, Kalam MA, Badran M, Al-Omrani A, **Binkhathlan Z**, Aljuffali IA, and Alghonaim M, “Development and Characterization of Tacrolimus-Loaded PLGA Nanoparticles”. 16<sup>th</sup> Canadian Society for Pharmaceutical Sciences (CSPS) Annual Meeting: *Personalized Medicine and Individualized Drug Delivery*. University of British Columbia, Vancouver, BC, Canada [June 2013]

- **Ziyad Binkhathlan**, Dion R. Brocks, and Afsaneh Lavasanifar. “Tissue distribution of Cyclosporine A following oral administration of Cyclosporine A-loaded polymeric micelles to rats: a pilot study”; The Canadian Society for Pharmaceutical Sciences (CSPS) Annual Symposium, *Modern Therapeutics 2012: Advances in Physiology, Pharmacology and Pharmaceutical Sciences*, University of Toronto, Toronto, ON, Canada [June 2012]
- **Ziyad Binkhathlan**, Anoosh Shayeganpour, Dion R. Brocks, and Afsaneh Lavasanifar. “Encapsulation of P-Glycoprotein Inhibitors inside Polymeric Micelles Can Reduce Doxorubicin-Free Drug Interactions”; Symposium 2011 of the Canadian Chapter of the Controlled Release Society (CC-CRS), *Multidisciplinary Approaches to Modern Therapeutics: Joining forces for a Healthier Tomorrow*, Hilton Montreal Bonaventure, Montreal, QC, Canada [May 2011].
- **Ziyad Binkhathlan**, Sara El Hasi, and Afsaneh Lavasanifar. “Characterization of Nanostructures Formed from Assembly of Poly(ethylene oxide)-*block*-Poly( $\alpha$ -Benzyl Carboxylate- $\epsilon$ -Caprolactone) in Water”; The 37<sup>th</sup> Annual Meeting and Exposition of the Controlled Release Society (CRS), *Personalized Medicines and Products for the Next Generation*, Oregon Convention Center, Portland, OR, U.S.A. [July 2010].
- **Ziyad Binkhathlan**, Sara El Hasi, Dion R. Brocks, and Afsaneh Lavasanifar. “Characterization of nano-carriers formed from self assembly of methoxy poly(ethylene oxide)-*block*-poly( $\alpha$ -benzyl carboxylate- $\epsilon$ -caprolactone) for the solubilization and *in vivo* delivery of Valspodar”; The 13<sup>th</sup> Canadian Society for Pharmaceutical Sciences (CSPS) Annual Meeting, *New Frontiers in Pharmaceutical Sciences*, River Rock Casino Resort, Vancouver (Richmond), BC, Canada [June 2010].
- **Ziyad Binkhathlan**, Dalia A. Hamdy, Dion R. Brocks, and Afsaneh Lavasanifar. “A Comparison between Pharmacokinetics of PSC 833 in the Cremophor EL Formulation and Polymeric Micellar Formulation”; 2009 AAPS Annual Meeting and Exposition, Los Angeles Convention Center, Los Angeles, CA, USA [November 2009].
- **Ziyad Binkhathlan**, Dalia A. Hamdy, Dion R. Brocks, and Afsaneh Lavasanifar. “A Comparison between Pharmacokinetics of Polymeric Micellar Formulation of Cyclosporine A and its more Hydrophobic Derivative PSC 833”; 6<sup>th</sup> International Nanomedicine and Drug Delivery Symposium (NanoDDS’08), Leslie Dan Faculty of Pharmacy, Toronto, ON, Canada [October 2008].
- **Ziyad Binkhathlan**, Sara El Hasi, Dion R. Brocks, and Afsaneh Lavasanifar. “Polymeric nano-carriers for solubilization and delivery of P-glycoprotein inhibitor, PSC 833 (Valspodar); 11<sup>th</sup>

Canadian Society for Pharmaceutical Sciences (CSPS) Annual Meeting, *Current Issues in Drug Development Early 21<sup>st</sup> Century*, The Banff Centre, Banff, AB, Canada [May 2008].

## Publications

- **Ziyad Binkhathlan**, Wajhul Qamar and Raisuddin Ali. “Assessment of subacute toxicity of methoxy poly(ethylene oxide)-*block*-poly( $\epsilon$ -caprolactone) (PEO-*b*-PCL) polymeric micelles following oral and intraperitoneal administration to rats”. *Submitted to Journal of Biomedical Materials Research: Part B - Applied Biomaterials* [JBMR-B-15-0434]
- **Ziyad Binkhathlan**, Mohamed M. Badran, Abdullah Alomrani, Ibrahim A. Aljuffali, Mohammed Alghonaim, Saleh Al-Muhsen, Rabih Halwani, and Aws Alshamsan. “Reutilization of Tacrolimus Extracted from Expired Prograf<sup>®</sup> Capsules: Physical, Chemical, and Pharmacological Assessment”. *AAPS PharmSciTech* (2015); DOI: 10.1208/s12249-015-0433-7
- **Ziyad Binkhathlan** and Afsaneh Lavasanifar. “P-glycoprotein inhibition as a therapeutic approach for overcoming multidrug resistance in cancer: current status and future perspectives”. *Curr Cancer Drug Targets*. 2013 Mar; 13(3):326-46
- **Ziyad Binkhathlan** and Aws Alshamsan. “Emerging nanodelivery strategies of RNAi molecules for colon cancer therapy: preclinical developments”. *Therapeutic Delivery* 2012 Sep; 3(9):1117-30
- Xiao-bing Xiong, **Ziyad Binkhathlan**, Leila Molavi, and Afsaneh Lavasanifar. “Polymeric micelles and related structures for drug delivery applications: an overview”. *Acta Biomater*. 2012 Jul; 8(6):2017-33
- **Ziyad Binkhathlan**, Anoosh Shayeganpour, Dion R. Brocks, and Afsaneh Lavasanifar. “Encapsulation of P-glycoprotein Inhibitors inside polymeric micelles can reduce doxorubicin-free drug interactions”. *Eur J Pharm Biopharm*. 2012 May; 81(1):142-8
- **Ziyad Binkhathlan**, Sara Elhasi, and Afsaneh Lavasanifar. “Characterization of the self assembly of methoxy poly(ethylene oxide)-*block*-poly( $\alpha$ -benzyl carboxylate- $\epsilon$ -caprolactone) for the solubilization and *in vivo* delivery of valsopodar”. *Curr Drug Deliv*. 2012 Mar; 9(2):164-71
- **Ziyad Binkhathlan**, Dalia A. Hamdy, Dion R. Brocks, and Afsaneh Lavasanifar. “Development of a polymeric micellar formulation for valsopodar and Assessment of its pharmacokinetics in rat”. *Eur. J. Pharm. Biopharm*. 2010 Jun; 75(2):90-5
- **Ziyad Binkhathlan**, Dalia A. Hamdy, Dion R. Brocks, and Afsaneh Lavasanifar. “Pharmacokinetics of PSC 833 (valsopodar) in its cremophor EL formulation in rat”. *Xenobiotica*. 2010 Jan;

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- **Ziyad Binkhathlan**, Vishwa Somayaji, Dion R. Brocks and Afsaneh Lavasanifar. “Development of a liquid chromatography –mass spectrometry (LC/MS) assay method for the quantification of PSC 833 (Valspodar) in rat plasma”. *Journal of Chromatography B*. 2008 Jun; 869 (1-2) 31-37

Conferences/  
Workshops  
attended

- The Canadian Society for Pharmaceutical Sciences (CSPS) 18<sup>th</sup> Annual Symposium, *Drug Discovery and Development in the Post-Genomic Era*, Toronto, ON, Canada [May 2015]
- The 1<sup>st</sup> European Conference on Pharmaceutics, Reims, France [April 2015]
- The 5<sup>th</sup> Annual Canadian Pharmacy Education & Research Conference, Delta Bessborough Hotel, Saskatoon, Saskatchewan, Canada [May 2014]
- The 8<sup>th</sup> International Dendrimer Symposium, hotel Convención, Madrid, Spain [Jun 2013]
- The 39<sup>th</sup> Annual Meeting & Exposition of the Controlled Release Society, *Smart Materials - From Innovation to Translation*, Centre des congrès de Québec, Québec City, Canada [Jul 2012]
- The Canadian Society for Pharmaceutical Sciences (CSPS) Annual Symposium, *Modern Therapeutics 2012: Advances in Physiology, Pharmacology and Pharmaceutical Sciences*, University of Toronto, Toronto, ON, Canada [Jun 2012]
- The 37<sup>th</sup> Annual Meeting and Exposition of the Controlled Release Society (CRS), *Personalized Medicines and Products for the Next Generation*, Oregon Convention Center, Portland, OR, U.S.A. [Jul 2010].
- The 13<sup>th</sup> Canadian Society for Pharmaceutical Sciences (CSPS) Annual Meeting, *New Frontiers in Pharmaceutical Sciences*, River Rock Casino Resort, Vancouver (Richmond), BC, Canada [Jun 2010].
- 6<sup>th</sup> International Nanomedicine and Drug Delivery Symposium (NanoDDS'08), Leslie Dan Faculty of Pharmacy, Toronto, ON, Canada [October 2008].
- 11<sup>th</sup> Canadian Society for Pharmaceutical Sciences (CSPS) Annual Meeting, *Current Issues in Drug Development Early 21<sup>st</sup> Century*, The Banff Centre, Banff, AB, Canada [May 2008].
- The 6<sup>th</sup> International Saudi Pharmacy Conference: *Pharmacy Profession towards Patient Care*, Al-Faisaliah Hotel, Riyadh, Saudi Arabia [Oct 2003].

- Literature Evaluation Workshop, in the 6<sup>th</sup> International Saudi Pharmacy Conference: *Pharmacy Profession towards Patient Care*, Al-Faisaliah Hotel, Riyadh, Saudi Arabia [Oct 2003].
- *The Pharmacogenomics Mini Symposium*, Intercontinental Hotel, Riyadh, Saudi Arabia [Feb 2003].
- *The 1<sup>st</sup> Symposium of Pharmacy Profession Ethics*, Riyadh Palace Hotel, Riyadh, Saudi Arabia [Oct 2002].

Professional  
memberships

- Saudi Pharmaceutical Society (**SPS**)
- Canadian Pharmacists Association (**CPhA**)
- Controlled Release Society (**CRS**)
- Canadian Society of Pharmaceutical Sciences (**CSPS**)
- American Association of Pharmaceutical Scientists (**AAPS**)