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EDUCATION

2009 - 2013

Doctor of Philosophy (Ph.D.) in Industrial Biotechnology and Protein Biosimilarity studies. Department of Pharmaceutical Chemistry, School of Pharmacy, University of Kansas, Lawrence, KS 66045, USA.

Dissertation Title:

“Applicability of Using Physical Stability Data and Advanced Visualization Methods in Protein Biosimilarity and Comparability Studies”

Mentor: Prof. David Volkin (Takeru and Aya Higuchi Distinguished Professor)

2009 - 2011

Master of Science (M.Sc.) in pharmaceutical chemistry, Department of Pharmaceutical Chemistry, University of Kansas, Lawrence, KS 66045, USA.

2001 - 2007

Bachelor of Pharmaceutical Sciences (B. Pharm.), King Saud University, P.O. BOX 2457, Riyadh 11451, Saudi Arabia.

POSITIONS and APPOINTMENTS

- Dec 2013 – Present** **Assistant Professor**, College of Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia.
- Aug 2009 – Dec 2013** **Graduate Research Assistant**, Department of Pharmaceutical Chemistry, University of Kansas, Lawrence, KS 66045, USA.
- May 2007 – Jan 2009** **Graduate Teaching Assistant**, College of Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia.

PROFFESIONAL TRAINING

- 2007** **Practical Training**, King Abdulaziz Medical City, Riyadh, Saudi Arabia.
- 2006** **Practical Training**, Dallah Hospital, Riyadh, Saudi Arabia.

RESEARCH EXPERIENCE

- Physiochemical characterization of therapeutic proteins in Biosimilarity and Comparability Studies.
- Performed biophysical characterization and formulation development of biotherapeutics.
- Effects of freeze-thaw, heat and pH stresses on protein physical and chemical stability in the presence and absence of identified stabilizers.
- Protein production using *Pichia Pastoris* yeast expression system.
- Protein purification using affinity, ionic and hydrophobic interaction chromatography.

PUBLICATIONS

1. **ALSENAIDY, M. A.**; Wang, T.; Kim, J. H.; Joshi, S. B.; Lee, J.; Blaber, M.; Volkin, D. B.; Middaugh, C. R., An empirical phase diagram approach to investigate conformational stability of “second-generation” functional mutants of acidic fibroblast growth factor-1. *Protein Science* 2012, 21 (3), 418-432.

2. **ALSENAIDY, M. A.;** Kim, J. H.; Majumdar, R.; Weis, D. D.; Joshi, S. B.; Tolbert, T. J.; Middaugh, C. R.; Volkin, D. B., High-Throughput Biophysical Analysis and Data Visualization of Conformational Stability of an IgG1 Monoclonal Antibody After Deglycosylation. *Journal of Pharmaceutical Sciences* 2013, 102 (11), 3942-3956.
3. **ALSENAIDY, M. A.;** Solomon Z. Okbazghi, Jae Hyun Kim, Sangeeta B. Joshi, C. Russell Middaugh, Thomas J. Tolbert, and David B. Volkin, Effects of glycosylation site occupancy and site 297 charge variations at amino acid position 297 on physical stability assessments of an IgG1-Fc (Submitted 2013).
4. **ALSENAIDY, M. A.;** Nishant K. Jain, Jae H. Kim, C. Russel Middaugh and David B. Volkin, Protein Comparability Assessments and Potential Applicability of High Throughput Biophysical Methods and Data Visualization Tools to Compare Physical Stability Profiles (Submitted 2013).

ABSTRACTS

1. **Mohammad A. Alsenaidy,** Jae Hyun Kim, Ranajoy Majumdar, David D. Weis, Sangeeta B. Joshi, Thomas J. Tolbert, C. Russell Middaugh, David B. Volkin. High-Throughput Biophysical Analysis and Data Visualization of Conformational Stability of an IgG1 Monoclonal Antibody (mAb) After Deglycosylation. Protein Stability Conference, Colorado, USA, 2013.
2. **Mohammad A. Alsenaidy,** Jae Hyun Kim, Thomas J. Tolbert, C. Russell Middaugh, David B. Volkin. Evaluation of EPDs and Radar charts to compare physical stability of differentially glycosylated IgG1-Fc proteins. The Faculty of Pharmaceutical Chemistry Fall Retreat Week, Lawrence, KS, USA, 2013.
3. **Mohammad A. Alsenaidy,** Thomas J. Tolbert, C. Russell Middaugh, David B. Volkin. Comparing physical stability of differentially glycosylated IgG1-Fc proteins. The Twenty- Sixth Annual Graduate Honors Symposium and Poster Session. Lawrence, KS, USA, 2012.
4. **Mohammad A. Alsenaidy,** Tingting Wang, Jae Hyun Kim, Jihun Lee, Michael Blaber, Sangeeta Joshi, David B. Volkin, C. R. Middaugh. Investigating Conformational Stability of “Second-generation” Functional Mutants of Acidic Fibroblast Growth Factor. Protein Stability Conference, Colorado, USA, 2012.
5. **Mohammad A. Alsenaidy,** Tingting Wang, Jae Hyun Kim, Jihun Lee, Michael Blaber, Sangeeta Joshi, David B. Volkin, C. R. Middaugh. Conformational Stability of “Second-generation” Functional Mutants of Acidic Fibroblast Growth Factor. The Twenty- Fifth Annual Graduate Honors Symposium and Poster Session. Lawrence, KS, USA, 2011.

SCIENTIFIC AND PROFESSIONAL SOCIETIES

1. The Protein Society.
2. American Association of Pharmaceutical Scientists (AAPS).
3. Saudi Pharmaceutical Society (SPS).

AWARDS AND ACCOMPLISHMENTS

- 2013** Top Downloaded Article in the Journal of Pharmaceutical Sciences (Oct 2013 - Dec 2013) “High-Throughput Biophysical Analysis and Data Visualization of Conformational Stability of an IgG1 Monoclonal Antibody After Deglycosylation”
- 2011** Honors in master’s degree general exam.
- 2009** Saudi Arabia Governmental Scholarship for Graduate Studies, King Saud University, Riyadh, Saudi Arabia.