

***Curriculum Vitae***  
**Tamer Saad Kaoud, M. Pharm. Sc.**  
**PhD Candidate, Med. Chem. Div., College of Pharmacy.**  
**Supervisor: Dr. Kevin N. Dalby**

**Education**

**Graduate Studies** **Master of pharmaceutical sciences. (September 1999 to June 2002).**  
*speciality:* **Pharmaceutical Medicinal Chemistry**  
 Medicinal chemistry Department, Faculty of pharmacy, Minia University, Minia, Egypt.

**My First Degree** **Bachelor of Pharmaceutical Sciences. (5 Years study, September 1994 to May 1999).**  
 Faculty of Pharmacy, Tanta University, Tanta, Egypt.

**Research Experience**

2007-2011 Graduate Research Assistant, Division of Medicinal Chemistry, College of Pharmacy,  
 The University of Texas at Austin. Research Advisor: Prof. Kevin N. Dalby

**Publications**

**Published Manuscripts**

- 1 - Development of JNK2-Selective Peptide Inhibitors That Inhibit Breast Cancer Cell Migration.**  
**Kaoud TS**, Mitra S, Lee S, Taliaferro J, Cantrell M, Linse KD, Van Den Berg CL, Dalby KN.  
 ACS Chem Biol. 2011 Jun 17;6(6):658-66. Epub 2011 Apr 5.
- 2 - Activated ERK2 Is a Monomer in Vitro with or without Divalent Cations and When Complexed to the Cytoplasmic Scaffold PEA-15.**  
**Kaoud TS**, Devkota AK, Harris R, Rana MS, Abramczyk O, Warthaka M, Lee S, Girvin ME, Riggs AF, Dalby KN.  
 Biochemistry. 2011 May 31;50(21):4568-78. Epub 2011 May 4.
- 3-Computational Insights for the Discovery of Non-ATP Competitive Inhibitors of MAP Kinases.**  
**Kaoud T.S.**, Schnieders, M.J., Yan, C., Dalby, K.N., Ren, P.  
 Current Pharmaceutical Design, in press
- 4 - Charge-site Dependent Dissociation of Hydrogen-Rich Radical Peptide Cations upon Vacuum UV Photoexcitation**  
 Madsen JA, Cheng RR, **Kaoud TS**, Dalby KN, Makatov DE, Brodbelt JS.  
 Journal of the American Chemical Society, Oct 2011, in press
- 5 - Examining Docking Interactions on ERK2 with Modular Peptide Substrates.**  
 Lee S, Warthaka M, Yan C, **Kaoud TS**, Ren P, Dalby KN.  
 Biochemistry. 2011 Sep 28. [Epub ahead of print]
- 6 - 193-nm photodissociation of singly and multiply charged peptide anions for acidic proteome characterization.**  
 Madsen JA, **Kaoud TS**, Dalby KN, Brodbelt JS.  
 Proteomics. 2011 Apr;11(7):1329-34. doi: 10.1002/pmic.201000565. Epub 2011 Feb 17.
- 7 - Understanding the specificity of a docking interaction between JNK1 and the scaffolding protein JIP1.**  
 Yan C, **Kaoud TS**, Lee S, Dalby KN, Ren P.  
 J Phys Chem B. 2011 Feb 17;115(6):1491-502. Epub 2011 Jan 25.
- 8 - Fluorescent peptide assays for protein kinases.**  
 Devkota AK, **Kaoud TS**, Warthaka M, Dalby KN.  
 Curr Protoc Mol Biol. 2010 Jul;Chapter 18:Unit 18.17.
- 9 - Synthesis and biological evaluation of p38alpha kinase-targeting dialkynylimidazoles.**  
 Li J, **Kaoud TS**, Laroche C, Dalby KN, Kerwin SM.  
 Bioorg Med Chem Lett. 2009 Nov 15;19(22):6293-7. Epub 2009 Sep 27.
- 10 - A model of a MAPK•substrate complex in an active conformation: a computational and experimental approach.**  
 Lee S, Warthaka M, Yan C, **Kaoud TS**, Piserchio A, Ghose R, Ren P, Dalby KN.  
 PLoS One. 2011 Apr 11;6(4):e18594.
- 11 - Solution NMR Insights into Docking Interactions Involving Inactive ERK2.**  
 Piserchio A, Warthaka M, Devkota AK, **Kaoud TS**, Lee S, Abramczyk O, Ren P, Dalby KN, Ghose R.  
 Biochemistry. 2011 May 10;50(18):3660-72. Epub 2011 Apr 19.
- 12 - Non-visual arrestins function as simple scaffolds assembling MKK4- JNK3α2 signaling complex.**  
 Xuanzhi Zhan, **Tamer S. Kaoud**, Kevin N. Dalby, and Vsevolod V. Gurevich.  
 Biochemistry. (in press).

## Submitted Manuscripts

### **13 – Therapeutic Targeting of Calmodulin-Dependant Protein Kinase III (Elongation factor-2 kinase, eEF2K) Inhibits Tumor Growth of Human Breast Cancer.**

Ibrahim Tekedereli, S. Neslihan Alpay, Esra Cobanoglu, **Tamer S. Kaoud**, Anil Sood, Gabriel Lopez-Berestein, Kevin N. Dalby and Bulent Ozpolat.

*Clinical Cancer Therapeutics* (Manuscript Submitted, Oct 2011).

## ***Presentations***

**1 –Challenges in Chemical Biology (ISACS5), 26-29 July 2011, University of Manchester, UK,** Development of a JNK2-Selective Peptide Inhibitor that Inhibits Breast Cancer Cell Migration. Tamer S. Kaoud, Shreya Mitra, S. Lee, Juliana Taliaferro, Carla Van Den Berg and Kevin Dalby.

**2 – SWRM 2011 • 67<sup>th</sup> Southwest Regional American Chemical Society Meeting**, Austin, Texas, 9 – 12 November 2011, Hybrid structure-based virtual screening: the discovery of a potent inhibitor targeting the jnk-jip interaction. Tamer S. Kaoud, Yan C, Ren P., Dalby KN.

**3 - Innovations in Cancer Prevention and Research Conference (CPRIT)**, Austin Convention Center, Teaxs, Nov 15-17, 2011, Hybrid structure-based virtual screening: the discovery of a potent inhibitor targeting the jnk-jip interaction. Tamer S. Kaoud, Yan C, Ren P., Dalby KN.

**4 - 4th Biological and Medicinal Chemistry Symposium for Postgraduates, 10th December 2010, Cambridge University, UK,** Development of a JNK2-Selective Peptide Inhibitor that Inhibits Breast Cancer Cell Migration. Tamer S. Kaoud, Shreya Mitra, S. Lee, Juliana Taliaferro, Carla Van Den Berg and Kevin Dalby.

**5 - Innovations in Cancer Prevention and Research Conference (CPRIT)**, Austin Convention Center, Nov 17-19, 2010, Development of Selective JNK2 Inhibitor by Employing the TAT-Mediated Effect on JIP-peptide Activity and Selectivity. Tamer S. Kaoud, Shreya Mitra, S. Lee, Juliana Taliaferro, Carla Van Den Berg and Kevin Dalby.

**6 - 2010 Biomedical Engineering Society Annual Meeting in Austin, Texas**, October 6-9, 2010, Phosphorylation of Alanine-Directed Substrates by MAP-Kinases: an Over-looked Specificity? Tamer S. Kaoud, Mark Rainey & Kevin Dalby.

**7 - 239<sup>th</sup> American Chemical Society National Meeting in San Francisco, California, March 21 – 25, 2010**, Quantifying alanine-directed substrates phosphorylation by different MAP kinases suggests their contribution to MAPKs signaling, Tamer S. Kaoud, Mark Rainey, Leqian Liu and Kevin Dalby.

**8 - 238<sup>th</sup> American Chemical Society National Meeting in Wash. DC, Aug 2009**, Tamer S. Kaoud and Kevin Dalby

**9 - Texas Enzyme Mechanisms Conference, The University of Texas at Austin, January 8-9, 2010**, Synthesis and biological evaluation of kinase-targeting dialkynylimidazoles, Jing Li, Tamer S. Kaoud, Christophe Laroche, Kevin N. Dalby and Sean M. Kerwin.

**10 - 241<sup>st</sup> American Chemical Society National Meeting in Anaheim, California, March 27–31, 2011**, JNK2 mechanism of Autophosphorylation, Tamer S. Kaoud and Kevin Dalby.

**11 - 241<sup>st</sup> American Chemical Society National Meeting in Anaheim, California, March 27-31, 2011**, Development of a high throughput peptide based fluorescence assay to identify small molecule inhibitors for eEF2K, Ashwini Devkota, Mangalika Warthaka, Tamer S. Kaoud, Bulent Ozpolat and Kevin Dalby.

**12 - 241<sup>st</sup> American Chemical Society National Meeting in Anaheim, California, March 27–31, 2011**, Novel Fluorescent substrates for JNK2, p38MAPK alpha and ERK2 to investigate MAPK activity upon docking interaction, Mangalika Warthaka, Sunbae Lee, Tamer S. Kaoud and Kevin Dalby.

**13 – 241<sup>st</sup> American Chemical Society National Meeting in Anaheim, California, March 27–31, 2011**, Targeting kinase docking sites: A fluorescence-based assay for p38-alpha inhibitors targeting a substrate binding site, Jing Li, Tamer S Kaoud, Kevin N. Dalby and Sean M Kerwin.

**14 – The Seventh Annual “Louis C. Littlefield Celebrating Pharmacy Research Excellence” event, Tuesday April 12th, 2011, College of Pharmacy, The University of Texas at Austin**, Development of a JNK2-Selective Peptide Inhibitor that Inhibits Breast Cancer Cell Migration. Tamer S Kaoud, Shreya Mitra, S. Lee, Juliana Taliaferro, Carla Van Den Berg and Kevin Dalby.

**15 – The Seventh Annual “Louis C. Littlefield Celebrating Pharmacy Research Excellence” event, Tuesday April 12th, 2011, College of Pharmacy, The University of Texas at Austin**, Characterization Of The Mechanism Of TrpM7 Autoactivation By Rapid Quench Flow Kinetics, Jihyun Park, Tamer S Kaoud and Kevin N. Dalby.

**16 - The University of Texas at Austin, College of Pharmacy, Medicinal Chemistry Division public seminars, 2008-2009**, Genetically Engineered Biosensors. Tamer S. Kaoud.

### *Honors and Awards*

- 1 - **The Jaime N. Delgado Endowed Graduate Fellowship in Medicinal Chemistry**, College of Pharmacy, The University of Texas at Austin, 2011-2012.
- 2 - **The Hutchison Endowmen Graduate School Fellowship** (The University Continuing Fellowship), The University of Texas at Austin Graduate School, 2011-2012.
- 3 - **Jaime N. Delgado Endowed Graduate Award in Pharmacy**, College of Pharmacy, UT. 2010.
- 4 - **Professional Development Award**, The University of Texas at Austin Graduate School, 2010-2011.
- 5 - **Professional Development Award**, The University of Texas at Austin Graduate School, 2009-2010.
- 6 - **College of Pharmacy Student Professional Development Endowment**, The University of Texas at Austin. 2010-2011.
- 7 - **College of Pharmacy Academic Note (Award)** to pay one year resident tuition fees, 2009-2010.
- 8 - **Dr Jerry and Joan Fineg Professional Development Endowment**, College of Pharmacy, The University of Texas at Austin. 2009-10.
- 9 - Nominated by the University of Texas at Austin for **Who's Who Among Students in American Universities & Colleges Award 2009**.
- 10 - **Dr Jerry and Joan Fineg Professional Development Endowment**, College of Pharmacy, The University of Texas at Austin. 2008-09.
- 11 - **B. Berard Matthews Endowed Scholarship**, 2008-2009.
- 12 - **Egyptian Ministry of Higher Education Scholarship** to study PhD in Pharmaceutical Sciences (Medicinal Chemistry) in The University of Texas at Austin (Aug 2006-Aug 2009).

### *UT community Activities*

- President** of Pharmacy Graduate Students Association (**PGSA**) in 2008/09 and member of Pharmacy Council.
- Secretary** of Pharmacy Graduate Students Association (**PGSA**) in 2009/10 and member of Pharmacy Council.
- Secretary** of Pharmacy Graduate Students Association (**PGSA**) in 2010/11 and member of Pharmacy Council.
- Grad. Student Assembly (GSA) representative** in **The University Research Policy Committee** (Faculty Council) 2010/2011.
- **College of Pharmacy Grad. Student Assembly (GSA) representative** 2011-2012.
- Grad. Student Assembly (GSA) representative** in **The Provost Graduate Advisory Council** 2011/2012.
- Grad. Student Assembly (GSA) representative** in **The University Research Policy Committee** (Faculty Council) 2011/2012.

### *Memberships/Associations*

- Member, **ACS**: American Chemical Society. (2007-present).
- Member, **AAAS**: The American Association for the Advancement of Science. (2008-present).
- Member, **BMES**: Biomedical Engineering Society. (2010-present).

### *Research Mentor*

- 2008-2011     Research Mentor, Supervised several rotation students, two pharmacy students, four undergraduates in a research lab setting. College of Pharmacy, The University of Texas at Austin.