

## BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME GLENN, Kevin A.		POSITION TITLE Assistant Professor		
eRA COMMONS USER NAME KGlenn				
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>				
INSTITUTION AND LOCATION		DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Chicago, Chicago, IL		B.S.	1990	Biological Chemistry
University of Illinois College of Medicine, Urbana-Champaign, IL		M.D.	1998	Medicine
University of Iowa Hospitals and Clinics, Department of Internal Medicine, Iowa City, IA		Internal Medicine Residency	2001	Internal Medicine
University of Iowa Hospitals and Clinics, Department of Internal Medicine, Iowa City, IA		Internal Medicine Chief Residency	2002	Internal Medicine

### A. Personal Statement.

### B. Positions and Honors

#### Positions and Employment

- 1998-01 Resident, Dept. of Internal Medicine, University of Iowa Hospitals and Clinics, IA.  
2001-02 Chief Resident, Internal Medicine, University of Iowa Hospitals and Clinics, IA.  
2002-06 Clinical Associate, Post-Doctoral Fellow, Dept. of Internal Medicine, University of Iowa, Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA  
2006-2009 Assistant Professor, Department of Internal Medicine, University of Iowa, Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA  
2006-present Physician, Department of Veterans Affairs, Iowa City Medical Center  
2009-present Assistant Professor, Nephrology Division, Department of Internal Medicine, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA

#### Professional Memberships

- 1997-present Member, American Medical Association  
1997-present Member, American Association for the Advancement of Science  
2004-present Member, The Gerontological Society of America  
2005-present Member, The American Society for Cell Biology  
2008-present Member, American Society for Biochemistry and Molecular Biology

#### Honors and other Professional Activities

- 1979-1985 United States Navy, Electrician's Mate (E5), Naval Nuclear Power Program  
1983 Naval Expeditionary Medal  
1983 Letter of Commendation from Secretary of the Navy  
1985 Good Conduct Medal  
1985 Honorable Discharge from Active Service  
1985-1996 United States Navy Reserves, Active  
1986-88 Dean's List (Mesa Junior College)  
1988 Graduated with Honors (AA), Mesa Junior College  
1988-90 University of Chicago Academic Scholarship  
1990 Persian Gulf War National Defense Service Medal  
1993 Excellence in Teaching Award, Undergraduate Chemistry  
1996 Honorable Discharge US Naval Reserves  
1996-97 Medical Scientist Program Johnson Fellowship  
2006 Selected Short Talk, American Association for the Study of Liver Diseases

- 2007 Nominated by Residents as Faculty Teacher of the Year  
 2009 Best Basic Science Presentation, Internal Medicine Research Day  
 2011 Selected Short Talk, Glycobiology Annual Meeting

## B. Selected peer-reviewed publications

1. Lee YP, Adimoolam S, Liu M, Subbaiah PV, **Glenn KA**, Jonas A. Analysis of human lecithin-cholesterol acyltransferase activity by carboxyl-terminal truncation. *Biochim Biophys Acta*. 1997 February 18; 1344 (3): 250-261.
2. Mattick S, **Glenn KA**, de Haan G, Shapiro DJ. Analysis of ligand dependence and hormone response element synergy in transcription by estrogen receptor. *J Steroid Biochem Mol Biol*. 1997 March; 60 (5-6):285-294.
3. Chusacultanchai S, **Glenn KA**, Rodriguez AO, Read EK, Gardner JF, Katzenellenbogen BS, Shapiro DJ. Analysis of estrogen response element binding by genetically selected steroid receptor DNA binding domain mutants exhibiting altered specificity and enhanced affinity. *J Biol. Chem* 1999 274 (33):23591-23598. PMID: 10438541
4. Zhang CC, **Glenn KA**, Kuntz MA, Shapiro DJ. High level expression of full-length estrogen receptor in *Escherichia coli* is facilitated by the uncoupler of oxidative phosphorylation, CCCP. *J Steroid Biochem Mol Biol*. 74 (4):169-178. PMID: 11162922
5. Nelson RF, **Glenn KA**, Miller VM, Wen H, Paulson HL. A Novel route for F-box Protein-mediated Ubiquitination Links CHIP to Glycoprotein Quality Control. *J. Biol. Chem*. 2006 281 (29): 20242-20251. PMID: 16682404
6. Nelson, R.F., **Glenn, KA.**, Zhang, Y., Wen, H., Knutson, T., Gouvion, C., Robinson, B., Zhou, Z., Yang, B., Smith, R.J.H., Paulson, H.: Selective Cochlear Degeneration in Mice Lacking the F-box Protein, Fbx2, a Glycoprotein-Specific Ubiquitin Ligase Subunit. *J Neurosci* 2007 27 (19): 5163-71. PMID: 17494702
7. **Glenn, KA.**, Nelson, R., Wen, H., Mallinger, A., Paulson, H.: Novel and Diverse Substrates for a Lectin Family of Ubiquitin Ligases. *J Biol Chem* 2008 283 (19): 12717-12729 PMID:PMC2442310
8. Wen, H., Kim, N., Mallinger, A., Fuentes, E.J., Gonzalez-Alegre, P., and **Glenn, K.**: The F box protein FBG1 Sequesters APC2 and causes S-phase arrest. *Cell Cycle*. 2010 Nov 15;9(22):4506-17. PMID:21135578
9. Gordon, K. **Glenn, K.A.** and Gonzalez-Alegre, P. Exploring the influence of torsinA expression on protein quality control. *Neurochem Res*. 2011 Mar;36(3):452-9.PMID:21161590.
10. Mallinger AJ, Wen, H. and **Glenn, KA**: Using a ubiquitin ligase as an unfolded protein sensor. *Biochem Biophys Res Commun*. 2012 Feb 3;418(1):44-8.PMID:22227190.
11. Gordon, K. **Glenn, K.A.** and Gonzalez-Alegre, P. The ubiquitin ligase FBG1 promotes the degradation of the disease-linked protein torsinA through the ubiquitin proteasome pathway and macroautophagy. *Neuroscience*. 2012 Aug 20. PMID:22917612.
12. Wen, HM., Dankle, GM., and **Glenn KA**. :Tissue Standards for Aging Research International Journal of Biochemistry and Molecular Biology, 2014, Under Review.

## C. Abstracts

1. **Glenn KA**, Nelson R, Wen H, Paulson H. Functional Diversity in a Novel Lectin Family of Ubiquitin Ligases. Presented at Keystone Symposia, Taos, NM, February 22-27, 2005.
2. **Glenn KA**, Nelson R, Wen H, and Paulson H. Glycoprotein Specificity of a Novel Group of Ubiquitin Ligases. Presented at American Society for Cell Biology Annual Meeting, San Francisco, 2006.
3. **Glenn KA**, Wen H, and Paulson H .Novel Ubiquitin Ligases in A1AT Degradation. Presented at the Alpha-1 Antitrypsin Deficiency and Other Liver Diseases Caused by Aggregated Proteins conference sponsored by the America Association for the Study of Liver Diseases / Alpha-1 Foundation. Atlanta, Georgia 2006.
4. **Glenn, KA.**, Nelson, R., Mallinger, A., Wen, H., Paulson, H.: Glycoprotein Specificity of a Novel Group of Ubiquitin Ligases. Presented at Keystone Symposia: Big Sky, MT, February 4-9, 2007,.
5. **Glenn, KA.**, Nelson, R., Mallinger, A., Wen, H., Paulson, H.: Diversity in Substrate Binding and SCF Complex Formation in a Family of Ubiquitin Ligases. Presented at Roy J. and Lucille A. Carver College of Medicine and the College of Public Health Research Week: Iowa City, IA, April 4, 2007.
6. Bode, N., Mallinger, A., Gordon, K., Paulson, H., **Glenn, KA.**, Gonzalez-Alegre, P.: Protein Quality

Control in DYT1 Dystonia: from Pathogenesis to Therapeutics. Presented at Roy J. and Lucille A. Carver College of Medicine and the College of Public Health Research Week: Iowa City, IA, April 4, 2007.

7. **Glenn, KA.**: Novel and Diverse Substrates for a Lectin Family of Ubiquitin Ligases. *Glycobiology*, 17: 1246-47, 2007.
8. Mallinger, A., Wen, H., **Glenn, KA.**: Novel Ubiquitin Ligases and Aging. Presented at Gerontological Society of American Annual Meeting, San Francisco, CA, November 16-20, 2007.
9. Wen, H., **Glenn KA.**: Changes in cellular levels of misfolded glycoproteins during aging. Presented at Internal Medicine Research Day, Iowa City IA, January 29, 2009.
10. Wen, H., **Glenn, KA.**: Using an unfolded protein sensor to measure age related changes in misfolded proteins. Presented at Molecular Mechanisms of Aging and Age-Related Diseases, Puerto Vallarta, Mexico, March 3-6, 2009.
11. Wen, H., **Glenn, KA.**: Changes in cellular levels of misfolded glycoproteins during aging. Presented at The University of Iowa Carver College of Medicine and VA Iowa City Health Care System Research Week, Iowa City, IA. Apr 15, 2009
12. Wen, H., Kim, S., Mallinger, A., Gonzalez-Alegre, P., and **Glenn, K.A.**: The F box protein FBG1 Sequesters APC2 and causes S-phase arrest. Poster Abstract University of Iowa Carver College of Medicine and VA Iowa City Health Care System Research Week. May 2011
13. Wen, H., and **Glenn KA.** FBG1 is a Ubiquitin Ligase That Preferentially Recognizes Unfolded Glycoproteins. Poster Abstract Glycobiology Annual Meeting, Seattle WA, Nov. 2011.
14. Wen J and **Glenn KA.** A novel lectin-like ubiquitin ligase degrades disease-causing A1AT-Z. Poster Siemens' Science Fair Competition, Notre Dame, IN, Nov. 2011.
15. Wen, H., Wen, J., Dankle, G., and **Glenn, KA.**: Lectin-Like Ubiquitin Ligases Degrade Alpha-1 Antitrypsin-Z. Poster Abstract Experimental Biology Annual Meeting, San Diego CA, April 2012.
16. **Glenn KA.** Lectin-like ubiquitin ligases degrade A1AT-Z. Poster Presentation Experimental Biology 2012 – April 2012
17. Dankle GM, Wen HM, Bode N, Chan AL, Jorge RE, Gonzalez-Alegre P and **Glenn KA.** Changes in Neuronal Markers of Inflammation, Apoptosis, and ER Stress After Mild Head Injury in Young and Old Mice. Health Science Research Day, University of Iowa Carver College of Medicine April 2012.
18. Wen, H., Wen, J., Dankle, G., and **Glenn, KA.**: Alternative Autophagy Alleviates A1AT-Z Accrual. Health Science Research Day, University of Iowa Carver College of Medicine April 2013.
19. Wen, H., Wen, J., Dankle, G., and **Glenn, KA.**: Alternative Autophagy Alleviates A1AT-Z Accrual. Presented at Experimental Biology, San Diego, CA, Apr 2014

#### D. Research Support

##### Completed

1. NCI/NIA 5 P20 CA103672-04 Cancer and Aging Pilot 09/01/06-08/31/07  
PI: Glenn  
*Novel Ubiquitin Ligases in Melanoma and Aging*
2. Alpha-1 Foundation Post-doctoral Fellowship 07/01/06-06/30/08  
PI: Glenn  
*Novel Ubiquitin Ligases in A1AT Degradation*
3. VA-Research Career Development Award 11/15/06-11/15/09  
PI: Glenn  
*Novel Ubiquitin Ligases in Liver Protein Quality Control*
4. Carver Collaborative Pilot Grant 06/01/08-06/01/10  
PI Glenn  
*Protein Quality Control in DYT1 Dystonia*
5. VA-Research Career Development Award 2 3/01/2011-3/01/2013  
PI: Glenn

*Hepatic Protein degradation in A1AT deficiency and senescence*

6. Ellison Medical foundation New Scholar in Aging      09/09/08-04/09/13  
PI: Glenn      \$100,000  
*So Misfolded Proteins Accumulate with Age or Senescence?*