

CHRIS GLEMBOTSKI
Professor of Internal Medicine
Director, Translational Cardiovascular Research Center
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Curriculum Vitae

EDUCATION:

1973	B.S.	Biochemistry	CA Polytechnic State University, San Luis Obispo CA
1979	Ph.D.	Biochemistry	University of California, Los Angeles

ACADEMIC TRAINING AND EMPLOYMENT:

1974-79	Pre-doctoral fellow, Dept. of Chem/Biochemistry, UCLA. (Mentor: Dr. Daniel E. Atkinson)
1979-83	Post-doctoral fellow, Dept. of Physiology, U. of CO Health Sci Center (Mentors: Drs. Betty Eipper and Richard Mains)
1983-86	Assistant Professor of Pharmacology, U. PA Medical School (Chair: Dr. Perry B. Molinoff)
1986-88	Associate Professor of Biology, San Diego State University (Chair: Dr. Paul J. Paolini)
1988-	Professor of Biology, San Diego State University (Chair: Dr. Paul J. Paolini)
1995-99	Chair, Cell and Molecular Biology Program Area, SDSU
199-20	Director, SDSU Heart Institute
2000-05	Chair, Department of Biology, SDSU
2007-10	Associate Dean of Graduate and Research Affairs, SDSU
2019-20	Distinguished Professor of Biology, SDSU
2020-	Distinguished Emeritus Professor of Biology, SDSU
2020-	Professor of Medicine, Director, Translational Cardiovascular Research Center, and Associate Dean for Research, University of Arizona College of Medicine, Phoenix, AZ

OTHER ACADEMIC TRAINING AND ADMINISTRATIVE POSITIONS:

1974-75	Teaching Assistant, Department of Chemistry, UCLA
1975-79	NIH Predoctoral Trainee, UCLA- Dr. Daniel E. Atkinson
1979-81	Runyon-Winchell Postdoctoral Fellow, U. CO. Med School Drs. Elizabeth Eipper and Richard Mains
1981-83	NIH Postdoctoral Fellow, U. CO. Med School Drs. Elizabeth Eipper and Richard Mains

1990-94	Founding Director CSU Program for Education and Research in Biotechnology (CSUPERB) Microchemical Core Facility DNA and protein synthesis and microsequencing service
2001-02	Founding Director, SDSU Center for Applied & Experimental Genomics
2002-06	Founding Director, SDSU Mouse Genetics Facility
2005-20	Founding Director of the SDSU Heart Institute/Rees-Stealy Research Foundation Graduate Fellowship Program in Cell and Molecular Biology

AWARDS, HONORS AND OFF-CAMPUS SERVICE:

1986-91	Established Investigator of the American Heart Association
1992-95	Member, CA American Heart Association Research Study Section
1996	Teacher/Scholar Award, Dept of Biology, San Diego State University
1998-00	Scientific Advisory Board Member, Elitra Pharmaceuticals
1999-05	CSU Council of Biology Chairs, Member
2000-04	Ad Hoc Reviewer, NIH CVA Study Section
2000-02	Member, National AHA Research Grant Study Section
2001	SDSU Alumni, College of Sciences Distinguished Faculty (Monty) Award
2001	CSU Biotechnology Researcher of the Year, Awarded by CSUPERB
2002	Top-25 President's Recognition Award
2003	Outstanding Faculty Award, SDSU Department of Biology
2003	SDSU Department of Biology Outstanding Faculty Award
2003-	Scientific Advisory Board Member, San Diego County
2004	Outstanding MBRS Faculty Mentor, SDSU
2004	Outstanding Faculty Award, SDSU Mortar Board
2004	SDSU Dept of Biology, Most Influential Professor Award
2005-07	Board of Directors, American Heart Association, San Diego
2007	Outstanding Faculty Award, SDSU College of Sciences
2007	Top-25 President's Recognition Award
2008	Outstanding Faculty Award, SDSU Department of Biology
2009	President's Leadership Fund Award for Faculty Excellence
2010-11	Ad Hoc Reviewer, NIH MIM Study Section
2010-	Editorial Board, Circulation Research
2012-	Editorial Board, Journal of Molecular and Cellular Cardiology
2016	Outstanding Faculty Award, SDSU Mortar Board
2019	A.W. Johnson Research Award

RESEARCH GRANT SUPPORT: (continuous funding from the NIH 1978-2020)
(awards as PI: \$42M)

Ongoing Research Support

R01HL149931	Glembotski (PI)	02/01/2020-12/31/2023
NIH/NHLBI		
The ER Stress-induced Selenoprotein, SelenoS, Regulates Proteostasis and Cardiac Hypertrophy		
R01HL141463	Glembotski (PI)	12/15/2018-11/30/2022
NIH/HLBI		
ATF6 is Required for ANP Secretion from the Heart		
R01 HL135893	Glembotski (PI)	06/01/2017-05/31/2021
NIH/HLBI		
Harnessing the Adaptive ER Stress Response in Myocardial Ischemia		
R01HL130356	Glembotski (Co-PI)	01/01/2016-12/31/2020
NIH/NHLBI		
Molecular Mechanism of Hypertrophic Cardiomyopathy In Populations Of South Asian Descendants		

Recently Completed Research Support

F31HL140850	Blackwood (PI)	03/01/2018-02/28/2021
NIH/NHLBI		
The Adaptive Cardiac Sensor, Atf6, Regulates ANP Secretion and Decreases Hypertensive Stress Role: Sponsor		
5-P01HL085577	Glembotski, (PI, Project 3)	09/01/2013-07/31/2019
NIH/HLBI		
Restoration of Myocardial Healing Through Cardiokine Secretion		
7-P01HL085577	Glembotski, Core (PI, Core C)	09/01/2013-08/31/2019
NIH/HLBI		
Restoration of Myocardial Healing Through Cardiokine Secretion		
R01HL127439	Glembotski (PI)	07/01/2015-06/30/2019
NIH/NHLBI		
Role of the SR/ER E3 Ubiquitin Ligase Synoviolin 1 in Cardiac Hypertrophy		
R01HL127439-02S1	PI: Glembotski (PI)	08/08/2016-01/15/2019
NIH/NHLBI		
Role of the SR/ER E3 Ubiquitin Ligase Synoviolin 1 in Cardiac Hypertrophy (Diversity Supplement)		

Peer-reviewed Publications (144) H-index = 65:

2020

- Arrieta, A., Blackwood, E.A., Stauffer, W.T., and **Glembotski, C.C.** (2020) Integrating ER and Mitochondrial Proteostasis in the Healthy and Diseased Heart. *Front. Cardiovasc. Med.* Jan 15.;6:193. doi: 10.3389/fcvm.2019.00193.
- Stauffer, W.T., Arrieta, A., Blackwood, E.A. and **Glembotski, C.C.** (2020) Sledgehammer to Scalpel: Broad Challenges to the Heart and Other Tissues Yield Specific Cellular Responses via Transcriptional Regulation of the ER-Stress Master Regulator, ATF6 α . (2020) *Mol. Sci.* Feb 8;21(3):1134. doi: 10.3390/ijms21031134.
- Stauffer, W.T., Blackwood, E.A., Azizi, I.K., Kaufman, R.J., and **Glembotski, C.C.** (2020) The ER Unfolded Protein Response Effector, ATF6, Reduces Cardiac Fibrosis and Decreases Activation of Cardiac Fibroblasts. *Int. J. Mol. Sci.* Feb 18;21(4):1373. doi: 10.3390/ijms21041373.
- Blackwood, E.A., Bilal, A.S., Stauffer, W.T., Arrieta, A., and **Glembotski, C.C.** (2020) Designing Novel Therapies to Mend Broken Hearts: ATF6 and Cardiac Proteostasis. (2020) *Cells* Mar 3;9(3):602. doi: 10.3390/cells9030602.
- Glembotski, C.C.** Arrieta, A., Blackwood, E.A., Stauffer, W.T. (2020) *Front. Physiol.* Apr 8;11:267. doi: 10.3389/fphys.2020.00267. eCollection 2020.
- Arrieta, A., Blackwood, E.A., Stauffer, W.T., Santo Domingo, M., Bilal, A.S., Thuerauf, D.J., Pentoney, A.N., Aivati, C., Sarakki, A.V., Doroudgar, S., and **Glembotski, C.C.** (2020) *J. Biol. Chem.* May 29;295(22):7566-7583. doi: 10.1074/jbc.RA120.013345.
- Blackwood, E.A., Thuerauf, D.J., Stastna, M., Stephens, H., Sand, Z., Pentoney, A., Azizi, K., Jakobi, T., Van Eyk, J.E., Katus, H.A., **Glembotski, C.C.** and Doroudgar, S. (2020) Proteomic Analysis of the Cardiac Myocyte Secretome Reveals Extracellular Protective Functions for the ER Stress Response. *J. Mol. Cell. Cardiol.* Jun;143:1320144. doi: 10.1016/j.yjmcc.2020.04.012. Epub 2020 Apr 25.
- Blackwood, E.A., Bilal, A.S., Azizi, A., Sarakki, A., and **Glembotski, C.C.** (2020) Simultaneous Isolation and Culture of Atrial Myocytes, Ventricular Myocytes and Non-myocytes from an Adult Mouse Heart. *J. Vis. Exp.* Jun 14;(160). doi: 10.3791/61224.

2019

- Palmer, J.E., Brietske, B.M., Bate, T.C., Blackwood, E.A., Garg, M., and **Glembotski, C.C.** (2019) Reactive Oxygen Species (ROS)-Activatable Prodrug for Selective Activation of ATF6 after Ischemia/Reperfusion Injury. *ACS Med Chem Lett* Nov 6;11(3):292-297. doi: 10.1021/acsmchemlett.9b00299. eCollection 2020 Mar 12.
- Glembotski, C.C.**, Rosarda, J.D. and Wiseman, R.L. (2019) Proteostasis and Beyond: ATF6 in Ischemic Disease. *Trends in Mol. Med.* 25(6):538-550.
- Glembotski, C.C.**, Arrieta, A., and Blackwood, E.A. (2019) Unfolding the Roles of Mitochondria as Therapeutic Targets for Heart Disease. *J. Am. Coll. Cardiol.* 73(14):1807-1810.
- Blackwood, E.A., Azizi, K Thuerauf, D.J., Paxman, R.J., Plate, L., Kelly, J.W. Wiseman, R.L., **Glembotski, C.C.** (2018) Pharmacologic Activation of ATF6 Transcriptionally Reprograms Cellular Proteostasis to Mitigate Pathology in a Heart Disease Model. *Nat. Comm.* 10(1):187. doi: 10.1038/s41467-018-08129-2.
- Blackwood, E.A., Hofman, C., Santo Domingo, M., Bilal, A.S., Sarakki, A., Stauffer, W., Arrieta, A., Thuerauf, D.J., Kolkhorst, F.W. Muller, O.J., Jacobi, T., Deiterich, C., Katus, H.A., Doroudgar, S., and **Glembotski, C.C.** (2019) ATF6 regulates cardiac hypertrophy

by transcriptional induction of the mTORC1 activator, Rheb. **Circ. Res.** 124(1):79-93.

Glembotski, C.C. and Lindberg, I. (2019) Physiological Signaling in the Absence of Amidated Peptides. **Proc. Natl. Acad. Sci. U.S.A.** 116:19774-19776.

2018

Arrieta, A., Blackwood, E.A., **Glembotski C.C.** (2017) ER Protein Quality Control and the Unfolded Protein Response in the Heart. **Curr. Topics in Micro and Immunol.**, 414L193-213.

Paxman, R., Plate, L., Blackwood, E.A., **Glembotski, C.C.**, Powers, E.T., Wisemand, R.L. and Kelly, J.W. (2018) Pharmacologic ATF6 activating compounds are metabolically activated to selectively modify endoplasmic reticulum proteins. **Elife** Aug 7;7. pii: e37168. doi: 10.7554/eLife.37168.

2017

Sacchi, V., Wang, B.J., Kubli, D., Martinez, A.S., Jin, J-K., Alvarez Jr., R., Hariharan, N., **Glembotski, C.C.**, Uchida, T., Malter, J.S., Yang, Y., Gross, P., Zhang, C., Houser, S., Rota, M., and Sussman, M.A. (2017) Pin1 regulates Ca²⁺ handling by modulating SERCA2a and NCX-1 protein levels and function. **J. Am. Heart Assoc.**, Oct 10;6(10). pii: e006837. doi: 10.1161/JAHA.117.006837.

Gray, C.B., Suetomi, T., Xiang, S., Blackwood, E.A. **Glembotski, C.C.**, Miyamoto, S., Westenbrink, B.D., Mishra, S. and Brown, J.H. (2017) CaMKII δ subtypes differentially regulate infarct formation following ex vivo myocardial ischemia/reperfusion through NF- κ B and TNF- α . **J Mol Cell Cardiol.** 103:48-55.

Yu, Z., Sheng, H., Liu, S., Zhao, S., **Glembotski, C.C.**, Warner, D.S., Paschen, W., and Yang, W. (2017) Activation of the ATF6 branch of the unfolded protein response in neurons improves stroke outcome. **J Cereb Blood Flow Metab.** 37(3):1069-1079.

Jin, J-K., Blackwood, E.A., Azizi, K., Thuerlauf, D.J., Fahem, A.G., Hofmann, C., Doroudgar, S., and **Glembotski, C.C.** (2017) ATF6 Decreases Myocardial Ischemia/reperfusion Damage and Links ER Stress and Oxidative Stress Signaling Pathways in the Heart. **Circ. Res.** 120(5):862-875.

Glembotski, C.C. (2017) Expanding the Paracrine Hypothesis of Stem Cell-mediated Repair in the Heart: When the Unconventional becomes Conventional. **Circ. Res.** 120(5):772-774.

2016

Doroudgar, S., Quijada, P., Konstandin, M., Ilves, K., Broughton, K., Khalafalla, F.G., Casillas, A., Nguyen, K., Gude, N., Toko, H., Ornelas, L., Thuerlauf, D.J., **Glembotski, C.C.**, Sussman, M.A. and Völkers, M. (2016) S100A4 protects the myocardium against ischemic stress. **J Mol Cell Cardiol.** 100:54-63.

Reynolds, J.O., Quick, A.P., Wang, Q., Beavers, D.L., Philippen, L.E., Showell, J., Barreto-Torres, G., Thuerlauf, D.J., Doroudgar, S., **Glembotski, C.C.** and Wehrens, X.H. (2016) Junctophilin-2 gene therapy rescues heart failure by normalizing RyR2-mediated Ca²⁺ release. **Int J Cardiol.** 225:371-380.

2015

Doroudgar, S., Völkers, M., Thuerlauf, D.J., Khan, M., Mohsin, S., Repress, J.L., Wang, W., Gude, N., Muller, O.J., Wehrens, X.H., Sussman, M.A., and **Glembotski, C.C.** (2015) **Circ. Res.**, 117(6):536-546.

Glembotski, C.C. (2015) Breaking down the COP9 Signalsome in the heart: how

inactivating a protein ubiquitin ligase increases protein ubiquitylation and protects the heart. (2015) *Circ. Res.*, 117(11):914-6.

2014

Völkers, M., Doroudgar, S., Konstandin, M.H., Quijada, P., Din, S., Ornelas, L., Thuerauf, D.J., Gude, N., **Glembotski, C.C.** and Sussman, M.A. (2014). PRAS40 prevents development of diabetic cardiomyopathy and improves hepatic insulin sensitivity in obesity. *EMBO Mol Med.*, 2014 Jan 1;6(1):57-65.

2013

Toko, H., Konstandin, M.H., Doroudgar, S., Ormachea, L., Joyo, E., Joyo, A.Y., Din, S., Gude, N.A., Collins, B., Völkers, M., Thuerauf, D.J., **Glembotski, C.C.**, Chen, C.H., Lu, K.P., Müller, O.J., Uchida, T., and Sussman, M.A. (2013) Regulation of cardiac hypertrophic signaling by prolyl isomerase pin1. *Circ. Res.*, 112(9):1244-1252.

Doroudgar, S., and **Glembotski, C.C.** (2013) ATF6 and Thrombospondin 4: the Dynamic Duo of the Adaptive Endoplasmic Reticulum Stress Response. *Circ. Res.*, 112(1):9-12.

Doroudgar, S., and **Glembotski, C.C.** (2013) New Concepts of Endoplasmic Reticulum Function in the Heart: Programmed to Conserve. *J. Mol. Cell. Cardiol.*, 55:85-91.

Völkers, M., Toko, H., Doroudgar, S., Din, S., Quijada, P., Joyo, A.Y., Ornelas, L., Joyo, E., Thuerauf, D.J., Konstandin, M.H., Gude, N., **Glembotski, C.C.**, and Sussman, M.A. (2013) Pathological hypertrophy amelioration by PRAS40-mediated inhibition of mTORC1. *Proc. Natl. Acad. Sci., U.S.A.*, 110:12661-6.

Völkers, M., Konstandin, M.H., Doroudgar, S., Toko, H., Quijada, P., Din, S., Joyo, A., Ornelas, L., Samse, K., Thuerauf, D.J., Gude, N., **Glembotski, C.C.**, and Sussman, M.A. (2013) mTORC2 protects the heart from ischemic damage, *Circulation*, 128:2132-44.

Glembotski, C.C. (2013) Classic Studies of Cultured Cardiac Myocyte Hypertrophy: Interview with a Transformer. *Circ. Res.*, 113:1112-6.

Glembotski, C.C. (2013) Roles for the Sarco/endoplasmic Reticulum Protein Quality Control System in the Heart. *J. Mol. Cell. Cardiol.*, in press.

2012

Glembotski, C.C. (2012) Sarco/endoplasmic Reticulum Regulation of Cardiac Contraction, Protein Synthesis and Quality Control. *Physiology*, 27(6):343-50.

Eletto, D., Maganty, A., Eletto, D., Dersh, D., Makarewich, C., Biswas, C., Doroudgar, S., **Glembotski, C.C.**, and Argon, Y. (2012) Limitation of Individual Folding Resources in the ER Leads to Outcomes Distinct from the Unfolded Protein Response. *J. Cell Sci.*, 125(Pt 20):4865-75.

Vekich, J.A., Belmont, P.J., Thuerauf, D.J., and **Glembotski, C.C.** (2012) Protein Disulfide Isomerase-associated 6 is an ATF6-inducible ER Stress Response Protein that Protects Cardiac Myocytes from Ischemia/reperfusion-mediated Cell Death. *J. Mol. Cell. Cardiol.*, 53(2):259-67.

Doroudgar, S. and **Glembotski, C.C.** (2012) Communication in the Heart: Cardiokines as Mediators of a Molecular Social Network. **Muscle: Fundamental Biology and Mechanisms of Disease**. Ed. J.A. Hill and E.N. Olson, Academic Press., p. 127-139.

Belmont, P.J., Chen, W.J., Thuerauf, D.J. and **Glembotski, C.C.** (2012) Regulation of microRNA Expression in the Heart by the ATF6 Branch of the ER Stress Response. *J. Mol. Cell. Cardiol.* 52:1176-1182.

Glembotski, C.C., Thuerauf, D.J., Huang, C., Vekich, J.A., Gottlieb, R.A. and Doroudgar, S. (2012) Mesencephalic Astrocyte-derived Neurotrophic Factor (MANF) Protects the Heart from Ischemic Damage and is Selectively Secreted Upon ER Calcium Depletion. *J. Biol Chem.* 287(31):25893-904.

Glembotski, C.C. (2012) Clarifying the Cardiac Proteasome Paradox: Protein Quality Control. *Circ. Res.* 111(5):509-512.

2011

Doroudgar, S, and **Glembotski, C.C.** (2011) The Cardiokine Story Unfolds: Ischemic Stress-induced Protein Secretion in the Heart. *Trends Mol Med.* 17(4):207-214.

Glembotski, C.C. (2011) Functions for the Cardiomyokine, MANF, in Cardioprotection, Hypertrophy and Heart Failure. *J. Mol. Cell. Cardiol.* 51(4):512-517.

2010

Belmont PJ, Chen WJ, San Pedro MN, Thuerauf DJ, Gellings Lowe N, Gude N, Hilton B, Wolkowicz R, Sussman MA, **Glembotski CC.** (2010) Roles for endoplasmic reticulum-associated degradation and the novel endoplasmic reticulum stress response gene Derlin-3 in the ischemic heart. *Circ Res.* 106(2):307-16.

Borillo GA, Mason M, Quijada P, Völkers M, Cottage C, McGregor M, Din S, Fischer K, Gude N, Avitable D, Barlow S, Gustafsson AB, **Glembotski CC**, Gottlieb RA, Brown JH, and Sussman MA. (2010) Pim-1 Kinase Protects Mitochondrial Integrity in Cardiomyocytes. *Circ. Res.*, 106(7):1265-74.

Miyamoto S, Purcell NH, Smith JM, Gao T, Whittaker R, Huang K, Castillo R, **Glembotski CC**, Sussman MA, Newton AC, Brown JH. (2010) PHLPP-1 negatively regulates Akt activity and survival in the heart. *Circ. Res.* 107(4):476-84.

2009

Whittaker R, Glassy MS, Gude N, Sussman MA, Gottlieb RA, **Glembotski CC** (2009) Kinetics of the translocation and phosphorylation of alphaB-crystallin in mouse heart mitochondria during ex vivo ischemia. *Am J Physiol Heart Circ Physiol.* 296(5):H1633-42.

Yuan H, Perry CN, Huang C, Iwai-Kanai E, Carreira RS, **Glembotski CC**, and Gottlieb RA. (2009) LPS-induced autophagy is mediated by oxidative signaling in cardiomyocytes and is associated with cytoprotection. *Am J Physiol Heart Circ Physiol.* 296(2):H470-9.

Doroudgar S, Thuerauf DJ, Marcinko MC, Belmont PJ, and **Glembotski CC.** (2009) Ischemia activates the ATF6 branch of the endoplasmic reticulum (ER) stress response. *J Biol Chem*, 284(43):29735-45.

Meex, S.J.R, Weissglas-Volkov, Daphna, van der Kallen,, Carla J.H., Thuerauf, D.J., van Greevenbroek, Marleen M.J., Schalkwijk, Casper G., Stehouwer, Coen D.A., Feskens, Edith J.M., Heldens, L., Ayoubi, Torik A., Hofker, Marten H., Wouters, Bradley G., Vlietinck, R., Sinsheimer, J.S., Taskinen, M-R., Kuusisto, J. Laakso, M., de Bruin, T.W.A., Pajukanta, P., and **Glembotski, C.C.** (2009) The ATF6-Met[67]Val substitution is associated with increased plasma cholesterol levels. *Arterioscler Thromb Vasc Biol.*, 29(9):1322-7.

2008

Tadimalla A, Belmont PJ, Thuerauf DJ, Glassy MS, Martindale JJ, Gude N, Sussman MA,

Glembotski CC. (2008) Mesencephalic astrocyte-derived neurotrophic factor is an ischemia-inducible secreted endoplasmic reticulum stress response protein in the heart. *Circ Res.* 2008 Nov 21;103(11):1249-58.

Belmont PJ, Tadimalla A, Chen WJ, Martindale JJ, Thuerlauf DJ, Marcinko M, Gude N, Sussman MA, **Glembotski, C.C.** (2008) Coordination of growth and ER stress signaling by regulator of calcineurin 1 (RCAN1), a novel ATF6-inducible gene. *J Biol Chem.* 2008 May 16;283(20):14012-21.

Jin, J.K., Whittaker, R., Glassey, M., Barlow, S.B., Gottlieb, R.A. and **Glembotski, C.C.** (2008) aB-Crystallin Localizes to Heart Mitochondria during Ischemia/Reperfusion. *Am. J. Physiol.* 294(1):H337-44.

Glembotski, C.C. (2008) The Role of the Unfolded Protein Response in the Heart. *J. of Mol. Cell Cardiol.*, 44(3): 453-459.

2007

Muraski JA, Misao Y, Rota M, Fransioli J, Cottage C, Fischer K, Esposito, G, Delucchi F, Arcarese M, Alvarez R, Siddiqi S, Emmanuel GN, Wu W, Gude N, Leri A, Kajstura J, Martindale J, **Glembotski CC**, Magnuson N, Berns A, Houser SR, Schaefer EM, Anversa P and Sussman MA. Pim-1 regulates cardiomyocyte survival downstream of Akt. (2007) *Nature Medicine*, 13(12):1467-75.

Glembotski, C.C. (2007) Getting a G—RRP on Regulated Exocytosis in the Heart. *J. of Cell Biol.*, 179(3):371-3 (invited review)

Glembotski, C.C. (2007) Endoplasmic Reticulum (ER) Stress in the Heart. *Circ Res.*, 101(10):975-84. (invited review)

Thuerlauf, D.J., Marcinko, M., Belmont, P.J. and **Glembotski, C.C.** (2007) Effects of the isoform-specific characteristics of ATF6 alpha and ATF6 beta on endoplasmic reticulum stress response gene expression and cell viability. *J. Biol. Chem.*, 282:22865-78.

2006

Martindale, J.J., Fernandez, R., Thuerlauf, D.J. Whittaker, R., Gude, Natalie, Sussman, Mark A. and **Glembotski, C.C.** (2006) Endoplasmic Reticulum Stress Gene Induction and Protection from Ischemia/reperfusion Injury in the Hearts of Transgenic Mice with a Tamoxifen-regulated form of ATF6. *Circulation Research*, 98: 1186-1193.

A commentary on this article appears as follows:

Benjamin, I.J. (2006) Viewing a Stressful Episode of ER. Is ATF6 the Triage Nurse? *Circulation Research*, 98: 1120-1122.

Thuerlauf, D.J., Marcinko, M., Gude, Natalie, Rubio, Marta, Sussman, Mark A., and **Glembotski, C.C.** (2006) Activation of the Unfolded Protein Response in Infarcted Mouse Heart and Hypoxic Cultured Cardiac Myocytes. *Circulation Research*, 99(3):275-82.

Wall, J.A., Wei, J., Ly, M, Belmont, P., Martindale, J.M., Tran, D., Sun, J., Yu, W., Oeller, P., Briggs, S., Sayen, M.R., Gottlieb, R.A. and **Glembotski, C.C.** (2006) Alterations in Oxidative Phosphorylation Complex Proteins in the Hearts of Transgenic Mice that Overexpress the p38 MAP Kinase Activator, MKK6. *American J. of Physiol.*, 291(5):H2462-72.

2005

Kato, T., Muraski, J., Chen, Y., Tsujita, Y., Wall, J., **Glembotski, C.C.**, Schaefer, E.,

Beckerle, M., and Sussman, M.A. (2005) ANP Promotes Cardiomyocyte Survival by cGMP-dependent Nuclear Accumulation of Zyxin and Akt. **J. Clin. Invest.**, **115**: 2716-2730.

McMullen, M.E., Bryant, P.W., **Glembotski, C.C.**, Vincent, P.A. and Pumiglia, K.M. (2005) Activation of p38 has opposing effects on the proliferation and migration of endothelial cells. **J. Biol. Chem.** **280**:20995-21003.

Martindale, J.J., Wall, J.A., Longoria, D.M., Aryal, P., Rockman, H.A. Guo, Y., Bolli, R. and **Glembotski, C.C.** (2005) Expression of MKK6 in the Heart Improves Functional Recovery from Ischemia *In vitro* and Protects Against Infarction *In vivo*. **J. Biol. Chem.** **280**:669-76.

2004

Thuerauf, D.J., Morrison, L.E. and **Glembotski, C.C.** (2004) Opposing Roles for ATF6a and ATF6b in ER Stress Response Gene Induction. **J. Biol. Chem.** **279**:21078-84.

Morrison LE, Whittaker RJ, Klepper RE, Wawrousek EF, **Glembotski CC** (2004) Roles for α B-crystallin and HSPB2 in Protecting the Myocardium from Ischemia/Reperfusion-Induced Damage in a KO Mouse Model. **Am J Physiol.**, **286(3)**:H847-H855.

2003

Morrison, L., Hoover, H.E., Thuerauf, D.J. and **Glembotski, C.C.** (2003) Mutations that Mimic Phosphorylation of Alpha B-Crystallin Enhance its Anti-apoptotic Effects: Evidence of a Critical role for Serine-59. **Circ Res.**, **92(2)**:203-211.

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 - 9- Molecular Biology Masters Thesis Chair- Lynnette Smith, M.S. 2001
 - 10-Molecular Biology Masters Thesis Chair- Xuan Lam, M.S. 2003
 - 11-Molecular Biology Masters Thesis Chair- Michelle Frankson, M.S. 2006
 - 12-Molecular Biology Masters Thesis Chair- Chi Li, M.S. 2007
 - 13-Molecular Biology Masters Thesis Chair- Jung Kang Jin, M.S. 2007
 - 14-Molecular Biology Masters Thesis Chair- Matthew Glassy, M.S. 2008
 - 15-Molecular Biology Masters Thesis Chair- Nikki Leonard, M.S. 2009
 - 16-Molecular Biology Masters Thesis Chair- Jonathan Hernandez, DNF
 - 17-Molecular Biology Masters Thesis Chair- Adrian Ariana, M.S. 2015
 - 18-Molecular Biology Masters Thesis Chair- Amber Pentoney, 2016
 - 19-Molecular Biology Masters Thesis Chair- Khalid Azizi, 2016
 - 20-Molecular Biology Masters Thesis Chair- Shivsmitri Kaul, 2018
 - 22-Biochemistry/Chemistry Masters Thesis Chair- Anup Sarakki, 2019
 - 23-Molecular Biology Masters Thesis Chair- Andrew Fedorouk, 2020
 - 24-Molecular Biology Masters Thesis Chair- Kayleigh Marsh, 2020
 - 25-Molecular Biology Masters Thesis Chair- Tak Cheung, 2020
-
- 1- Doctoral Thesis Chair- Scott Manaker, MD/Ph.D. [U. PA Pharmacology] 1985
 - 2- Doctoral Thesis Chair- Paul Shields, Ph.D. [U. PA Biochemistry] 1988
 - 3- Doctoral Thesis Chair- Chris Irons, Ph.D. [UCSD/SDSU] 1993
 - 4- Doctoral Thesis Chair- Amy Sprenkle, Ph.D. [UCSD/SDSU] 1994
 - 5- Doctoral Thesis Chair- Dietmar Zechner, Ph.D. [UCSD/SDSU] 1998
 - 6- Doctoral Thesis Chair- Deanna Hanford, Ph.D. [UCSD/SDSU] 1998
 - 7- Doctoral Thesis Chair- Peter Ho, Ph.D. [UCSD/SDSU] 2000
 - 8- Doctoral Thesis Chair- Rian Craig, [UCSD/SDSU] 2001
 - 9- Doctoral Thesis Chair- Holly Hoover, Ph.D. [UCSD/SDSU] 2003
 - 10-Doctoral Thesis Chair- Lisa Morrison, Ph.D. [UCSD/SDSU] 2003
 - 11-Doctoral Thesis Chair- Jason Wall, Ph.D. [UCSD/SDSU] 2005

- 12-Doctoral Thesis Chair- Joshua Martindale, Ph.D. [UCSD/SDSU] 2006
- 13-Doctoral Thesis Chair- Ross Whittaker, Ph.D. [UCSD/SDSU] 2008
- 14-Doctoral Thesis Chair- Peter Belmont, Ph.D. [UCSD/SDSU] 2009
- 15-Doctoral Thesis Chair- Archana Tadimalla, Ph.D. [UCSD/SDSU] 2010
- 16-Doctoral Thesis Chair- Shirin Dorouger, Ph.D. [UCSD/SDSU] 2012
- 17-Doctoral Thesis Chair- John Vekitch, Ph.D. [UCSD/SDSU] 2013
- 18-Doctoral Thesis Chair- Adrian Arrieta, Ph.D. [UCSD/SDSU] 2020
- 19-Doctoral Thesis Chair- Winston Stauffer, Ph.D. [UCSD/SDSU] 2020
- 20-Doctoral Thesis Chair- Cathrine Aivati, Ph.D. [UCSD/SDSU] 2020
- 21-Doctoral Thesis Chair- Erik Blackwood, Ph.D. [UCSD/SDSU] 2020

POSTDOCTORAL FELLOWS:

- 1- Tom Gibson [U. PA Pharmacology] 1983-1987
- 2- Gary Wildey [U. PA Pharmacology] 1985-1987
- 3- Paul Shields [SDSU] 1988-1990
- 4- Kevin Krown [SDSU] 1990-1993
- 5- Patrick McDonough [SDSU] 1990-1996
- 6- Huda Shubeita [SDSU] 1994-1996
- 7- Joshua Martindale [SDSU] 2006-2009
- 8- Barney Barnett [SDSU] 2008-2009
- 9- Ross Whitaker [SDSU] 2009-2010
- 10-Peter Belmont [SDSU] 2010-2011
- 11-Shirin Doroudgar [SDSU] 2013-2014
- 12-Jungkang Jin [SDSU] 2015-2018
- 13-Charles Gray [SDSU] 2017
- 14-Erik Blackwood [SDSU/UA] 2020-present

SDSU COMMITTEE MEMBERSHIPS:

SDSU Biology Department Committees:

- Biology Joint Doctoral Executive Committee, Chair- 1987-1990
- Biology Faculty Search Committee, Member- Neuroscientist, 1988
- Biology Faculty Search Committee, Chair- Cardiovascular Biologist, 1989; 1991
- Biology Faculty Search Committee, Chair- Molecular Life Scientist, 1997
- Cell and Molecular Biology RTP Committee Member, 1989/90, 1990/91
- Cell and Molecular Biology Program Area Director, 1991-1993
- Biology Review, Promotion and Tenure Committee Member, 1991/92, 1992/93
- Cell and Molecular Biology Program Area Director, 1995-1999
- Cell and Molecular Biology Curriculum Review Committee, 1995-2000
- Biology Policy and Planning Committee, 1991-1993; 1995-1999; 2000-2005
- Cell and Molecular Biology Curriculum Review Committee, 1995-2000
- Life Sciences North Renovation Committee, 1998-2007
- Biology Faculty Search Committee- Molecular Cardiology, 2001/02
- Biology Peer Review Committee, 2006-07
- BioScience Center Coordinating Committee- Assembled by Dr. Segall (2011-2015)
- Fred Henry Chair of Life Sciences Search Committee- Chair, 2015-2016
- Fred Henry Chair of Life Sciences Search Committee- Member, 2017

SDSU College of Sciences Committees and other service:

College Animal Subjects Committee, 1989-1991
CSUPERB Microchemical Core Facility Director, 1990-1994
Dean's Committee on Biotechnology, 1993-1998
Dean's Committee on Multimedia, 1995-1998
College Review, Promotion and Tenure Committee Chair, 1994/95
College Review, Promotion and Tenure Committee [*ad hoc*], 1998
Director, SDSU Heart Institute, 1999-present
SDSU Heart Institute Steering Committee (Chair), 1999-present
SDSU College of Sciences, Council of Chairs (Chair), 2003-2005
BioScience Center Development Team, 2003-2006
Fred Henry Endowed Chair Search Committee, 2013-present
College Review, Promotion and Tenure Committee Member, 2012-2013
College Review, Promotion and Tenure Committee Chair, 2013-2014
College Review, Promotion and Tenure Committee Chair, 2014-2015

SDSU University Committees:

Institutional Animal Care and Use Committee, 1986-1989
University Faculty Senator, 1998-2000
University General Education Committee, 1998-2000
College of Sciences Dean's Search Committee, 1998/99 and 1999/00
Associate VP for Research Search Committee, 2001/02 and 2002/03
University Chairs Task Force Committee, 2003-2005
College of Sciences Dean's Search Committee, 2005/06
Dept of Exercise and Nutritional Sciences Academic Review Panel Member, Feb 2006
Institutional Biosafety Committee (Chair) 2006-present
University Research Committee 2006-present
Academic Senate Subcommittee on Academic Policy & Planning (2007-2010)
University Scholarship Committee (2008-2010)
Advisory Committee to the CSU Trustees for Selection of the President of SDSU (2010/11)
Research Affairs Executive Director Search Committee Member (2012)
BioScience Center Steering Committee (2012-present)
Math and Science Education Doctorate Review Panel, Chair (2013)
University Review, Promotion and Tenure Committee, Member (2015-2016)
University Review, Promotion and Tenure Committee 2016-2017
University Review, Promotion and Tenure Committee 2017-2018
University Review, Promotion and Tenure Committee 2018-2019
University Review, Promotion and Tenure Committee 2019-2020 (chair)
University "Big Ideas" Steering Committee Member 2019-2020

UA COMMITTEE MEMBERSHIPS:

UA COMP Research Senate, Committee Chair, 2020-present

Ad Hoc Faculty Promotions Committee for the Departments of Surgery and Medicine, Committee Member, Nov 2020

Tenure Practices Workgroup (Colleges of Medicine) Committee Member, 2020-21

