JOHN D. ROBERTSON, Ph.D.

Curriculum Vitae

EDUCATION

1989-1994	**Bachelor of Arts, Philosophy** The University of Texas, Austin, TX
1994-1995	**Exercise Physiology** The University of Texas, Austin, TX
1995-1999	**Doctor of Philosophy, Pharmacology/Toxicology** The University of Texas, Austin, TX (Mentor: James P. Kehrer, Ph.D.)
1999-2003	**Postdoctoral, Toxicology** Karolinska Institute, Stockholm, Sweden (Supervisor: Sten Orrenius, M.D.)

POSITIONS

1995-1999	**Predoctoral Fellow**, Division of Pharmacology/Toxicology, The University of Texas at Austin
1999-2003	**Postdoctoral Fellow**, Division of Toxicology, Karolinska Institute
2004-2011	**Assistant Professor**, Department of Pharmacology, Toxicology & Therapeutics, University of Kansas Medical Center
2005-2011	**Associate Member**, University of Kansas Cancer Center, Kansas City, KS
2011-Present	**Associate Member**, Grant Writers' Seminars and Workshops, LLC, Buellton, CA

PROFESSIONAL MEMBERSHIPS

1996-1999	Gulf Coast Society of Toxicology, Graduate student member
1996-1999	Society of Toxicology, Graduate student member
1999-2003	Society of Toxicology, Postdoctoral member
2000-2003	European Cell Death Organization, Postdoctoral member
2002-2011	American Society for Biochemistry and Molecular Biology, Member
2004-2007	Society of Toxicology, Full member
2004-2007	Central States Society of Toxicology, Full member
2007-2011	American Association for Cancer Research, Member
2009-2011	American Society for Pharmacology and Experimental Therapeutics, Member

HONORS & AWARDS

1997	Rho Chi National Pharmaceutical Honor Society, Nu Chapter, Member
1997	First Place, *Edward S. Reynolds* Award, Platform Presentation, Gulf Coast Society of Toxicology Meeting, College Station, TX
1997-1998	NIAAA Science Education Partnership Award Appointment, The University of Texas at Austin
1998-1999	Pharmacy Council Graduate Student Representative, The University of Texas at Austin
1998-1999	Vice President, Pharmacy Graduate Student Association (PGSA), College of Pharmacy, The University of Texas at Austin
1998-1999	NIH Toxicology Training Grant Appointee, The University of Texas at Austin
1998 & 2000	Gordon Research Conference, "Mechanisms of Toxicity," Travel Award
1999	Honorable Mention, *Carl C. Smith* Mechanisms Award, Society of Toxicology, New Orleans, LA
1999	The American-Scandinavian Foundation Postdoctoral Fellowship
2000	Karolinska Institute Visiting Scientist Stipend, Stockholm, Sweden
2000	STINT Visiting Scientists/Scholars Fellowship, Stockholm, Sweden
2002	Invited to attend Nobel Prize Ceremony & Banquet, Stockholm, Sweden
2001-2003	National Research Service Award (NRSA) Individual Postdoctoral Fellowship, National Cancer Institute, NIH
2008	Third Place, Jr. Faculty Poster Presentation, KU Cancer Center Research Symposium, Lawrence, KS
2009	First Place, Jr. Faculty Poster Presentation, KU Cancer Center Research Symposium, Kansas City, KS

TEACHING

The University of Texas at Austin

1996-1997	Graduate Laboratory Methods II, 3 Contact Hrs

Karolinska Institute

2000-2003	Apoptosis: Theory and Methods, "Apoptosis in Toxicity," 1.5 Contact Hrs

University of Kansas Medical Center

2004	Essentials of Pharmacology (PHCL 880), "Endocrine Pancreas," 2 Contact Hrs
2005-2009	Module 4 of Interdisciplinary Graduate Program in Biomedical Sciences (IGPBS 894), Cell and Developmental Biology, "Signal Transduction," 8 Contact Hrs
2005	Toxicology (PTOX 918), "Skin," 2 Contact Hrs, 2005
2005-2011	Carcinogenesis & Cancer Biology (P&O 939), "Apoptosis," 1.5 Contact Hrs
2006-2007	Medical Pharmacology (PHRM 850) Small Groups, 18 Contact Hrs
2006-2011	Molecular Mechanisms of Neurological Disorders (PHCL 848), "Apoptosis," 1.5 Contact Hrs
2006-2011	Foundations of Medicine (CORE 800), "Cell Cycle, Mitosis & Meiosis, and Apoptosis," 3 Contact Hrs
2006-2011	Essentials of Pharmacology (PHCL 880), "Chemotherapy, Nucleotide Synthesis, DNA Replication, Mitosis," 4 Contact Hrs

2007	Toxicology (PTOX 918), "Blood" and "Pesticides," 4 Contact Hrs
2007-2011	Blood & Lymphoid (CORE 845), "Treatment of Cancer I & II," 2 Contact Hrs
2008-2011	Integration and Consolidation (CORE 860), Small Groups, 20 Contact Hrs

STUDENTS AND FELLOWS TRAINED

Karolinska Institute

Master's Students

2000	Emma Mejhert
2001-2002	Minna Suomela
2003	Helin Vakifahmetoglu

University of Kansas Medical Center

Doctoral Students

2005-present	Shary Shelton
2006-2009	Mary Shawgo, Ph.D.

Ph.D. Dissertation Committees

2004-2007	Adnan Abu-yousif, Ph.D.
2005-2008	Adrianne (Beth) Hontz, Ph.D.
2008	Yang Wang (KU-Lawrence), Ph.D.
2006-2009	Hope Karnes, Ph.D.
2007-2010	Chieko Saito, Ph.D.
2008-2011	Ann Thomas
2009-2011	Amanda Obaidat

Graduate Student Rotations

2004	Jerri Rook
2004	Shary Shelton
2005	Kyung-Tae Park
2005	Mary Shawgo

ASPET Summer Fellows

2004	Allison Mezger
2005	Shannon Cork

PROFESSIONAL SERVICE

Journal Reviewing Activities

Editorial Appointments

2004-2010	Biochemical Journal, Editorial Advisor
2006-2010	Toxicology Letters, Editorial Board

Ad hoc Reviewing

Biochemical and Biophysical Research Communications
Cardiovascular Research
Cell Death and Differentiation
Cellular and Molecular Life Sciences
Chemical Research in Toxicology
Comparative Biochemistry and Physiology

EMBO Journal
FASEB Journal
FEBS Letters
Journal of Biological Chemistry
Life Sciences
Liver International
Molecular Biology of the Cell
Nature Cell Biology
Oncogene
Pharmacology & Toxicology
PLoS One
Proceedings of the National Academy of Sciences
Trends in Pharmacological Sciences

Grant Reviewing Activities

2007-2008	Albert Einstein Society, Albert Einstein Medical Center, Philadelphia, PA
2009-present	Ladies Auxiliary of the Veterans of Foreign Wars (LAVFW) Postdoctoral Cancer Research Fellowships, Kansas City, MO

Conference/Symposium Organizing Activities

2006 **Robertson, J.D.** and Bratton, S.B., Chair and Co-chair, *Symposium: New Insights into Mechanisms of Cell Death and Survival,* Presented at the 45th Society of Toxicology meeting, San Diego, CA

Book Reviewing Activities

1. **Robertson, J.D.** (2005) Review of *Camptothecins in Cancer Therapy*, Adams VR, Burke TG, eds. Humana Press, 2005. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 7/9/2005).
2. **Robertson, J.D.** (2006) Review of *The Adrenergic Receptors in the 21st Century*, Perez DM, ed. Humana Press, 2006. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 2/3/2006).
3. **Robertson, J.D.** (2006) Review of *Novel Anticancer Agents: Strategies for Discovery and Clinical Testing*, Adjei AA, Buolamwini, JK, eds. Academic Press, 2006. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 6/17/2006).
4. **Robertson, J.D.** (2006) Review of *Cancer Drug Resistance*, Teicher BA, ed. Humana Press, 2006. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 9/16/06).
5. **Robertson, J.D.** (2007) Review of *Deoxynucleoside Analogs in Cancer Therapy*, Peters, GJ ed. Humana Press, 2006. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 2/16/2007).
6. **Robertson, J.D.** (2007) Review of *Annual Review of Pharmacology and Toxicology 2007, 47th Edition*, Cho, AK, Blaschke, TF, Insel, PA., Loh, HH, eds. Annual Reviews, 2007. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 5/31/2007).
7. **Robertson, J.D.** (2008) Review of *Cancer Proteomics*, Daoud, SS, ed. Humana Press, 2008. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 5/2/2008).
8. **Robertson, J.D.** (2008) Review of *Advances in Molecular Oncology,* di Fagagna, Fd'A, Chiocca, S; McBlane, F, Cavallaro, U, eds. Springer, 2007. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 7/27/2008).

9. **Robertson, J.D.** (2008) Review of *Mitochondrial Medicine*, Gvozdjakova, A, ed. Springer 2008. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 8/1/2008).
10. **Robertson, J.D.** (2009) Review of *The Role of Microtubules in Cell Biology, Neurobiology, and Oncology.* Doody's Review Service (on-line). Available: http://www.doody.com.
11. **Robertson, J.D.** (2009) Review of *Anticancer Therapeutics*, Missailidis, S, ed. Wiley, 2008. Doody's Review Service (on-line). Available: http://www.doody.com. (Accessed 6/5/09).

ACADEMIC SERVICE

Departmental

2004	Shared Instrument Application
2005	Website Development Committee
2005	Graduate Student Expectations Committee
2010	Grant Writing Mini-symposium Presenter

Extra-departmental

2005-2010	Judge, Student Research Forum
2005-2008	Faculty Council Representative
2005-2007	Judge, Kansas Junior Academy of Science: District III Meeting, Trailridge Middle School, Shawnee Mission, KS
2006-2007	Councilor, Molecular Biology Study Section (MBSS), Society of Toxicology

RESEARCH SUPPORT (direct costs)

1999-2000	Postdoctoral Fellowship The American-Scandinavian Foundation *Relationship between Bcl-2/Bcl-xL and DNA breakdown in apoptosis* Role: Fellow	$30,000
2001-2003	F32 CA83272 NIH/NCI *Nuclear-mitochondrial communication in chemical apoptosis* Role: Fellow	$110,114
2004	P20 RR016475 NIH/NCRR *K-BRIN Recruitment Package*	$25,000
2004-2006	Research Starter Grant in Pharmacology/Toxicology Pharmaceutical Research and Manufacturers of America Foundation (PhRMA) *DNA-damaging agents, caspase-2, and apoptosis* Role: PI	$60,000
2004-2006	P20 RR016475 NIH/NCRR *Kansas IDeA Network of Biomedical Research*	$250,000

	Excellence Role: Junior Investigator	
2004-2007	K22 ES011647 NIH/NIEHS *Topoisomerase II-directed drugs and cell death* Role: PI	$300,000
2007	KUMC Research Institute Fall Bridging Program *Molecular Pathways Mediating Apoptosis Induced by Topoisomerase II*	$35,000
2008	Kansas University Cancer Center Pilot Grant *Mechanisms of Leukemic Cell Death induced by the novobiocin analogue KU-135*	$35,000
2009	*KU Cancer Center* *American Cancer Society (IRG-09-062-01) Pilot Grant* *Antiproliferative Mechanisms of a Novobiocin-derived C-terminal Hsp90 Inhibitor*	$35,000
2010	*KUMC Research Institute* *Fall Bridging Program* *Antiproliferative Mechanisms of Novobiocin-derived C-terminal Hsp90 Inhibitors*	$30,000

PUBLICATIONS

Peer-reviewed Articles

1. **Robertson, J.D.,** Starnes, J.W. and Kehrer, J.P. (1997) Cosubstrates involved in the reduction of cytosolic glutathione disulfide in rat heart. *Toxicology* 124: 11-19.
2. **Robertson, J.D.,** Datta, K. and Kehrer, J.P. (1997) Bcl-XL overexpression restricts heat-induced apoptosis and influences hsp70, bcl-2, and Bax protein levels in FL5.12 cells. *Biochem. Biophys. Res. Commun.* 241: 164-168.
3. **Robertson, J.D.,** Datta, K., Biswal, S.S. and Kehrer, J.P. (1999) Heat-shock protein 70 antisense oligomers enhance proteasome inhibitor-induced apoptosis. *Biochem. J.* 344: 477-485.
4. Biswal, S.S., Datta, K., Shaw, S.D., Feng, X., **Robertson, J.D.** and Kehrer, J.P. (2000) Glutathione oxidation and mitochondrial depolarization as mechanisms of nordihydroguaiaretic acid-induced apoptosis in lipoxygenase-deficient FL5.12 cells. *Toxicol. Sci.* 53: 77-83.
5. **Robertson, J.D.,** Orrenius, S. and Zhivotovsky, B. (2000) Review: Nuclear events in apoptosis. *J. Struct. Biol. 129:* 346-358.
6. **Robertson, J.D.** and Orrenius, S. (2000) Molecular mechanisms of apoptosis induced by cytotoxic chemicals. *Crit. Rev. Toxicol.* 30: 609-627.
7. **Robertson, J.D.,** Gogvadze, V., Zhivotovsky, B. and Orrenius, S. (2000) Distinct pathways for stimulation of cytochrome c release by etoposide. *J. Biol. Chem.* 275: 32438-32443.

8. Samali, A., **Robertson, J.D.,** Peterson, E., Manero, F., van Zeijl, L., Paul, C., Cotgreave, I.A., Arrigo, A-P. and Orrenius, S. (2001) Hsp27 protects mitochondria of thermotolerant cells against apoptotic stimuli. *Cell Stress Chaperon.* 6: 49-58.
9. Gogvadze, V., **Robertson, J.D.,** Zhivotovsky, B. and Orrenius, S. (2001) Cytochrome c release occurs via Ca2+-dependent and Ca2+-independent mechanisms that are regulated by Bax. *J. Biol. Chem.* 276: 19066-19071.
10. **Robertson, J.D.,** Chandra, J., Gogvadze, V. and Orrenius, S. (2001) Biological reactive intermediates and mechanisms of cell death. *Adv. Exp. Med. Biol.* 500: 1-10.
11. **Robertson, J.D.** and Zhivotovsky, B. (2002) New methodology is a key to progress. *Cell Cycle* 1: 119-123.
12. Ott, M.*, **Robertson, J.D.***, Gogvadze, V.*, Zhivotovsky, B. and Orrenius, S. (2002) Cytochrome c release involves a two-step process. *Proc. Natl. Acad. Sci. U S A* 99: 1259-1263. (*contributed equally to this work)
13. **Robertson, J.D.,** Fadeel, B., Zhivotovsky, B. and Orrenius, S. (2002) 'Centennial' Nobel conference on apoptosis and human disease. *Cell Death Differ.* 9: 468-475.
14. **Robertson, J.D.** and Orrenius, S. (2002) Role of mitochondria in toxic cell death. *Toxicology* 181-182: 491-496.
15. **Robertson, J.D.,** Enoksson, M., Suomela, M., Zhivotovsky, B. and Orrenius, S. (2002) Caspase-2 acts upstream of mitochondria to promote cytochrome c release during etoposide-induced apoptosis. *J. Biol. Chem.* 277: 29803-29809.
16. **Robertson, J.D.,** Zhivotovsky, B., Gogvadze, V. and Orrenius, S. (2003) Outer mitochondrial membrane permeabilization: an open-and-shut case? *Cell Death Differ.* 10: 485-487.
17. Gogvadze, V., **Robertson, J.D.,** Zhivotovsky, B. and Orrenius, S. (2004) Mitochondrial cytochrome c release may occur by volume-dependent mechanisms not involving permeability transition. *Biochem. J.* 378: 213-217.
18. Tamm, C., **Robertson J.D.,** Sleeper, E., Enoksson, M., Emgård, M., Orrenius, S. and Ceccatelli, S. (2004) Differential regulation of the mitochondrial and death receptor pathways in neural stem cells. *Eur. J. Neurosci.* 19: 2613-2621.
19. **Robertson, J.D.,** Gogvadze, V., Kropotov, A., Vakifahmetoglu, H., Zhivotovsky, B. and Orrenius, S. (2004) Processed caspase-2 can induce mitochondria-mediated apoptosis independently of its enzymatic activity. *EMBO Rep.* 5: 643-648.
20. Enoksson, M., **Robertson, J.D.,** Gogvadze, V., Bu, P., Kropotov, A., Zhivotovsky, B. and Orrenius, S. (2004) Caspase-2 permeabilizes the outer mitochondrial membrane and disrupts the binding of cytochrome c to anionic phospholipids. *J. Biol. Chem.* 279:49575-49578.
21. Franklin, E.E. and **Robertson, J.D.** (2007) Requirement of Apaf-1 for mitochondrial events and the cleavage or activation of all procaspases during genotoxic stress-induced apoptosis. *Biochem. J.* 405: 115-122.
22. Shawgo, M.E., Shelton, S.N. and **Robertson, J.D.** (2008) Caspase-mediated Bak activation and cytochrome C release during intrinsic apoptotic cell death in Jurkat cells. *J. Biol. Chem.* 283: 35532-35538.
23. Shelton, S.N., Shawgo, M.E. and **Robertson, J.D.** (2009) Cleavage of Bid by executioner caspases mediates feed forward amplification of mitochondrial outer membrane permeabilization during genotoxic stress-induced apoptosis in Jurkat cells. *J. Biol. Chem.* 284: 11247-11255.
24. Shelton, S.N., Shawgo, M.E., Donnelly, A., Comer, S.B., Vielhauer, G.A., Rajewski, R.A., Blagg, B.S.J., and **Robertson, J.D.** (2009) KU135, a novel novobiocin-derived C-terminal inhibitor of the 90-kDa heat shock protein, exerts potent antiproliferative effects in human leukemic cells. *Mol. Pharmacol.* 76:1314-1322.

25. Shawgo, M.E., Shelton, S.N. and **Robertson, J.D.** (2009) Caspase-9 activation by the apoptosome is not required for Fas-mediated apoptosis in type II Jurkat cells. *J. Biol. Chem.* 284:33447-33455.
26. Chiu, A., Shi, X.L., Lee, W.K., Hill, R., Wakeman, T.P., Katz, A., Xu, B., Dalal, N.S., **Robertson, J.D.**, Chen, C., Chiu, N. and Donehower, L. (2010) Review of chromium (VI) apoptosis, cell-cycle-arrest, and carcinogenesis. *J. Environ. Sci. Health C. Environ. Carcinog. Ecotoxicol. Rev.* 28: 188-230.
27. Shelton, S.N., Dillard, C.D and **Robertson, J.D.** (2010) Activation of caspase-9, but not caspase-2 or caspase-8, is essential for heat-induced apoptosis in Jurkat cells. *J. Biol. Chem.* 285:40525-40533.
28. Wang, Y., **Robertson, J.D.** and Walcheck, B. (2011) Different signaling pathways stimulate a disintegrin and metalloprotease-17 (ADAM17) in neutrophils during apoptosis and activation. *J. Biol. Chem.* 286:38980-38988.
29. Ottosson-Wadlund, A., Ceder, R., Preta, G., Pokrovskaja, K., Grafstrom, R.C., Heyman, M., Soderhall, S., Grander, D., Hedenfalk, I., **Robertson, J.D.** and Fadeel, B. (2012) Requirement of apoptotic protease-activating factor-1 for bortezomib-induced apoptosis but not for Fas-mediated apoptosis in human leukemic cells. *Mol. Pharmacol.* (in press).

Book Chapters

1. **Robertson, J.D.** and Orrenius, S. (2001) Biochemical signals that initiate apoptosis. In *Comprehensive Toxicology, Volume XIV: Cellular and Molecular Toxicology*, Vanden Heuvel, JP, Greenlee WF, Perdew GH, Mattes W, eds., pp. 443-462.
2. **Robertson, J.D.,** Orrenius, S. and Zhivotovsky, B. (2004) Mitochondria and oxidation in the regulation of cell death. In *When Cells Die II: A Comprehensive Evaluation of Apoptosis and Programmed Cell Death*, Lockshin RA, Zakeri, Z, eds. pp. 381-401.
3. Kehrer, J.P., **Robertson, J.D.** and Smith, C.V. (2009) Mechanisms: Free radicals and reactive oxygen species. In *General Principles, Toxicokinetics, and Mechanisms of Toxicity,* 2nd Edition, Bond, JA ed. Vol. 1 of Comprehensive Toxicology, pp. xxx-xxx.

Abstracts

1. **Robertson, J.D.,** Starnes, J.W. and Kehrer, J.P. (1997) Reducing cosubstrates involved in reducing cardiac glutathione disulfide. *Fundam. Appl. Toxicol.* 36: 299.
2. **Robertson, J.D.**, Datta, K., Xu, J. and Kehrer, J.P. (1998) Bcl-X_L overexpression restricts hsp70 production and heat-induced apoptosis in FL5.12 cells. *Toxicol. Sci*. 42 (1-S): 145.
3. **Robertson, J.D.** and Kehrer, J.P. (1998) Proteasome inhibition induces hsp70 and promotes apoptosis which is abated by Bcl-X_L overexpression in murine pro-B lymphocytic (FL5.12) cell lines. Presented at "Mechanisms of Toxicity," Gordon Research Conference.
4. **Robertson, J.D.**, Datta, K. and Kehrer, J.P. (1999) Proteasome inhibition induces hsp70 and promotes apoptosis which is decreased by Bcl-X_L overexpression in murine pro-B lymphocytic (FL5.12) cells. *Toxicol. Sci.* 48 (1-S): 157.
5. Samali, A., **Robertson, J.D.**, Peterson, E., Manero, F., Holmberg, C.I., Subjeck, J.R., Sistonen, L., van Zeijl, L., Paul, C., Cotgreave, I.A., Arrigo, A-P. and Orrenius, S. (1999) Hsp27 and Hsp72 differentially inhibit mitochondrial and post-mitochondrial events during apoptosis. Presented at The Seventh Euroconference on Apoptosis, Ein Gedi, Israel.
6. Gogvadze, V., **Robertson, J.D.** and Orrenius, S. (2000) Calcium, mitochondria and caspase activation. Presented at "The Role of Mitochondria in Apoptosis and Neurodegeneration," Erik K. Fernström Symposium, Lund, Sweden.
7. **Robertson, J.D.**, Zhivotovsky, B., Gogvadze, V. and Orrenius, S. (2000) Etoposide triggers the release of nuclear factor(s) that stimulate the release of cytochrome *c*. Presented at "Mechanisms of Toxicity," Gordon Research Conference.

8. Chandra, J., Mansson, E., Gogvadze, V., **Robertson, J.D.**, Albertioni, F. and Orrenius, S. (2000) Resistance to 2-chlorodeoxyadenosine is due to a lack of Ca^{2+} -mediated cytochrome *c* release. Presented at the Leukemia 2000 Meeting, Houston, TX.
9. Gogvadze, V., **Robertson, J.D.**, Zhivotovsky, B. and Orrenius, S. (2000) Calcium-mediated cytochrome *c* release from isolated mitochondria treated with etoposide. Presented at The Eigth Euroconference on Apoptosis, Davos, Switzerland.
10. **Robertson, J.D.,** Gogvadze, V., Zhivotovsky, B. and Orrenius, S. (2001) Cytochrome *c* release occurs via Ca^{2+}-dependent and Ca^{2+}-independent mechanisms that are regulated by Bax. Presented at "Cell Death," Gordon Research Conference.
11. Orrenius, S., **Robertson, J.D.,** Fadeel, B. and Zhivotovsky, B. (2001) Organelle cross-talk in the regulation of apoptosis. Presented at the Ninth Eurocoference on Apoptosis, Vienna, Austria.
12. Gogvadze, V., **Robertson, J.D.,** Ott, M., Zhivotovsky, B. and Orrenius, S. (2002) Role of calcium and oxidative stress in mitochondrial regulation of cell death. Presented at "Mitochondria and Pathogenesis," Keystone Symposium.
13. **Robertson, J.D.,** Gogvadze, V., Zhivotovsky, B. and Orrenius, S. (2002) Multiple mechanisms of cytochrome *c* release from mitochondria. Presented at the 4th International Cell Death Symposium, Noosaville, Australia.
14. **Robertson, J.D.,** Enoksson, M., Zhivotovsky, B. and Orrenius, S. (2002) Caspase-2 acts upstream of mitochondria to promote cytochrome *c* release during etoposide-induced apoptosis. Presented at The Tenth Euroconference on Apoptosis, Paris, France.
15. **Robertson, J.D.,** Enoksson, M., Zhivotovsky, B. and Orrenius, S. (2003) Involvement of Caspase-2 Upstream of Mitochondria during Etoposide-induced Apoptosis. *Toxicol. Sci.* 72 (1-S): 313.
16. **Robertson, J.D.,** Gogvadze, V., Kropotov, A., Vakifahmetoglu, H., Zhivotovsky, B. and Orrenius, S. (2004) Caspase-2 directly impairs mitochondrial function and stimulates cytochrome *c* release. *Toxicol. Sci.* 78 (1-S): 402.
17. Bu, P., Franklin, E.E. and **Robertson, J.D.** (2006) Role of caspase-2 in etoposide-resistant APAF1 knockdown Jurkat T-cells. *Toxicol. Sci.* 90 (1-S): 411.
18. **Robertson, J.D.** and Bratton, S.B. (2006) New insights into mechanisms of cell death and survival. *Toxicol. Sci.* 90 (1-S): 70.
19. **Robertson, J.D.**, Bu, P. and Franklin, E.E. (2006) Topoisomerase II inhibitors and cell death. *Toxicol. Sci.* 90 (1-S): 70.
20. Franklin, E.E. and **Robertson, J.D.** (2006) Requirement of Apaf-1 for procaspase-2 activation and apoptosis induced by DNA damage. Presented at National IDeA Symposium of Biomedical Research Excellence (NISBRE), Washington, DC.
21. Franklin, E.E. and **Robertson, J.D.** (2006) Requirement of Apaf-1 for Procaspase-2 Cleavage and Mitochondrial Apoptotic Events in Response to Genotoxic Stress. Presented at the Gordon Research Conference on Cell Death, Big Sky, MT.
22. Shelton, S.N. and **Robertson, J.D.** (2007) A role for Bid in etoposide-induced apoptosis in Jurkat T-lymphocytes. Student Research Forum, University of Kansas Medical Center.
23. Shawgo, M.E. and **Robertson, J.D.** (2007) The Apaf-1/caspase-9 apoptosome is dispensable for Fas-mediated apoptosis in type II Jurkat T-lymphocytes. Student Research Forum, University of Kansas Medical Center.
24. Shelton, S.N. and **Robertson, J.D.** A role for Bid in etoposide-induced apoptosis in Jurkat T-lymphocytes. In: *Proceedings of the 99th Annual Meeting of the American Association for Cancer Research*; 2008 Apr. 12-16; San Diego, CA. Philadelphia (PA): AACR; 2008. Abstract nr. 4390.
25. Shawgo, M.E. and **Robertson, J.D.** The Apaf-1/Caspase-9 Apoptosome Is Dispensable for Fas-Mediated Apoptosis in Type II Jurkat T Lymphocytes [abstract]. In: *Proceedings of the*

99th Annual Meeting of the American Association for Cancer Research; 2008 Apr. 12-16; San Diego, CA. Philadelphia (PA): AACR; 2008. Abstract nr. 4370.

26. Shelton, S. N. and **Robertson, J.D.** (2008) A Role for Bid in Genotoxic Stress-induced Apoptosis in Jurkat T-Lymphocytes. Student Research Forum, University of Kansas Medical Center.
27. Shawgo, M. E. and **Robertson, J.D.** (2008) Sensitizing Bcl-xL Overexpressing Jurkat T Lymphocytes Cells to Receptor-mediated Death by a Smac Mimetic. Student Research Forum, University of Kansas Medical Center.
28. Shelton, S.N., Shawgo, M.E., Blagg, B.S.J. and **Robertson, J.D.** KU135, a novobiocin-derived C-terminal inhibitor of Hsp90, exerts potent antiproliferative effects in human leukemic Jurkat T cells [abstract]. In *Proceedings of the 100th Annual Meeting of the American Association for Cancer Research*; 2009 Apr 18-22; Denver, CO. Philadelphia (PA): AACR; 2009. Abstract nr. 5117.
29. Shawgo, M.E., Shelton, S.N. and **Robertson, J.D.** Apaf-1-deficient cells display both autophagic and proteasomal degradation of cytochrome c and Smac after prolonged incubation with the DNA-damaging drug etoposide. In *Proceedings of the 100th Annual Meeting of the American Association for Cancer Research*; 2009 Apr 18-22; Denver, CO. Philadelphia (PA): AACR; 2009. Abstract nr. 1957.

INVITED PRESENTATIONS

1. "Proteasome inhibition induces hsp70 and promotes apoptosis which is abated by Bcl-X_L overexpression in murine pro-B lymphocytic (FL5.12) cell lines," Gordon Research Conference, "Mechanisms of Toxicity," Short talk, 1998
2. "Biochemical mechanisms of apoptosis," Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden, 2001
3. "Programmed cell death," Nobel Week, Stockholm International Youth Science Seminars, Stockholm, Sweden, 2002
4. "Involvement of caspase-2 upstream of mitochondria during etoposide-induced apoptosis," Eli Lilly and Company, Greensboro, IN, 2003
5. "Involvement of caspase-2 upstream of mitochondria during etoposide-induced apoptosis," 42nd Society of Toxicology meeting, Short talk, 2003
6. "Caspase-2-mediated engagement of the mitochondrial apoptotic pathway," 11th Euroconference on Apoptosis, Short talk, Ghent, Belgium, 2003
7. "Caspase-2-mediated engagement of the mitochondrial apoptotic pathway," Department of Biochemistry and Molecular Biology, University of Kansas Medical Center, 2004
8. "Mammalian apoptosis: lessons from worms," Department of Pharmacology, Toxicology & Therapeutics, University of Kansas Medical Center, 2005
9. "Apoptosis in liver injury and disease," Department of Pharmacology, Toxicology & Therapeutics, University of Kansas Medical Center, 2005
10. "Apoptosis and necrosis: clinical implications," Scholarship Forum, School of Nursing Continuing Nursing Education, University of Kansas Medical Center, 2005
11. "Caspase-2-mediated engagement of the mitochondrial apoptotic pathway," Department of Pharmacology, Toxicology & Therapeutics, University of Kansas Medical Center, 2005
12. "Mechanisms of chemotherapy-induced apoptosis," Department of Molecular and Integrative Physiology, University of Kansas Medical Center, 2005
13. "Requirement of Apaf-1 for procaspase-2 activation and apoptosis induced by DNA damage," K-INBRE Annual Symposium, Kansas State University, 2006
14. Topoisomerase II inhibitors and cell death. Presented at the 45th Society of Toxicology meeting, San Diego, CA, 2006

15. “Apaf-1 is required for mitochondrial events and all procaspase activation during genotoxic stress-induced apoptosis,” Burnham Institute for Medical Research, La Jolla, CA, 2006
16. “Topoisomerase II inhibitors and apoptosis,” Department of Molecular Biosciences, University of Kansas, 2006
17. "Molecular pathways mediating apoptosis induced by genotoxic stress," College of Pharmacy, Washington State University, 2007
18. “Mechanisms of receptor- and mitochondria-mediated apoptosis in Type 2 Jurkat T-cells,” Burnham Institute for Medical Research, La Jolla, CA, 2008
19. “Mechanisms of receptor- and mitochondria-mediated apoptosis in Type 2 Jurkat T-cells,” The University of Texas at Austin, Austin, TX, 2008
20. “Molecular Basis of Cell Death and Survival Responses to Stress,” University of Missouri at Kansas City, Kansas City, MO, 2008
21. “Regulation of Mitochondrial Apoptotic Events Induced by Genotoxic Stress,” Central States Society of Toxicology Annual Meeting, University of Kansas Medical Center, Kansas City, KS, 2008
22. “Antiproliferative mechanisms of a novobiocin-derived inhibitor of the 90-kDa heat shock protein,” Hsp90 Symposium, University of Kansas, Lawrence, KS, 2009