Curriculum Vitae – Ilona Petrikovics

Professor of Chemistry

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Academic Training

Post-doctoral Training in **Toxicology** at Texas A&M University, Department of Medical Pharmacology and Toxicology, College Station, TX (1990-1992)

Ph.D. in Medicinal Biology, (minors: Pharmacology/Chemotherapy and Microbiology), University Medical School, Debrecen, Hungary, Europe, 1985

Ph.D. in Organic Chemistry, (minor: Biochemistry), L. Kossuth University of Arts and Sciences, Debrecen, Hungary, Europe, 1982

M.S. in General Chemistry, L. Kossuth University of Arts and Sciences, Debrecen, Hungary, Europe,1979

Work and Professional Experience

(2014-Present) Professor of Chemistry, Sam Houston State University, Huntsville, TX. *Field*: *Drug formulation, Nano-delivery systems, Analytical method development for detecting drugs in biological fluids, Pharmacokinetics, Toxicity studies, Development of therapeutic agents to treat cyanide intoxication.*

(2007-2014) Associate Professor of Chemistry, Sam Houston State University, Huntsville, TX. *Field*: *Enzyme mechanism in drug antagonism; Enzyme and drug delivery systems; Drug formulation, Chemical warfare agent antagonism.*

(2006-2007) Battelle Contractor, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen, MD. *Field: Cyanide research*

(2004-2006) Research Fellow, Clinical Pharmacology Laboratory, Department of Anatomy, Physiology and Pharmacology, College of Veterinary Medicine, Auburn University, AL. *Field*: *Clinical Pharmacology (pharmacokinetics); Studies with drugs and metabolites (analytical method development)*

(2004-2005) Associate Research Scientist, Department of Biochemistry & Biophysics, Texas A&M University, College Station, TX. *Field: Enzyme immobilization and nanotechnology applications for detection, decontamination and antagonism of chemical warfare agents.*

(2003-2004) Research Analytical Chemist, Clinical Pharmacology and Analytical Chemistry Laboratory, Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Texas A&M University, College Station, TX. *Field: Clinical Pharmacology studies. Analytical detection method development for drugs and metabolites in body fluids and tissues; Drug stability studies.*

(2002-2003) National Research Council Senior Fellow, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen, MD. *Field: Analytical and toxicity (toxicokinetics) studies with chemical warfare agents.*

(1992-2002) Assistant Research Scientist, Department of Medical Pharmacology and Toxicology, Texas A&M University, College Station, TX. *Field: Toxicology - Drug toxicity and antagonism; Drug delivery systems (Liposomes, enzyme carrier polymers, cyclodextrins, nano-encapsulation technology).*

(1990-1992) Research Associate, Department of Medical Pharmacology & Toxicology, Texas A&M University, College Station, TX. *Field: Toxicology - Mechanism of drug antagonism, enzyme mechanism and toxicokinetics in carrier red blood cells. (Noxious gases, pesticides).*

(1988-1990) Laboratory Head, Biogal Pharmaceutical Company Debrecen, Hungary. *Field: Drug development; Trans-dermal drug delivery systems; Pharmacokinetics.*

(1985-1988) Research Fellow, Research Group of Antibiotics of the Hungarian Academy of Sciences, Debrecen, Hungary. *Field: Synthesis and structural elucidation of novel beta-lactam antibiotics.*

(1982-1985) Research Associate, Dept. of Chemotherapy, University Medical School, Debrecen, Hungary. *Field: Kinetic studies on microbial beta-lactamases; Beta-lactamase resistance.*

(1979-1981) Research Associate, Research Group of Antibiotics of the Hungarian Academy of Sciences, Department of Organic Chemistry, L. Kossuth University of Arts and Sciences, Debrecen, Hungary. *Field: Synthesis and structural elucidation of penicillin and cephalosporin antibiotics.*

Scholarly and Creative Contributions

Peer-Reviewed Publications

Articles

Total: ***57***
Since 2007 at SHSU total: ***32***

(Name of the student team members at SHSU underlined)

(1) Petrikovics, I., Kiss, L., Chou, Ch., Ebrahimpour, A., Kovacs, K., Kiss, M., Logue, B., Chan, A., Manage, B.W.A., Boss, G.R., Gary A. Rockwood. Antidotal Efficacies of the Cyanide Antidote Candidate Dimethyl Trisulfide Alone and in Combination with Cobinamide Derivatives. Submitted to *J. M. Toxicol* .(manuscript number: JMTO-D-18-00086)

(2) Kiss, L, Duke, A, Kovacs, K, Barcza, T, Kiss, M, Petrikovics, I, Thompson, DE. Sealing Effects on the Storage Stability of the Cyanide Antidotal Candidate, Dimethyl Trisulfide. *Drugs Research and Development*. **2017**. Dec 6. doi: 10.1007/s40268-017-0220-x.

(3) Dong, X., Kiss, L., Petrikovics, I., Thompson, D.E. Reaction of Dimethyl Trisulfide with Hemoglobin. *Chemical Research in Toxicology*, **2017.** Doi:10.1021/acs.chemrestox.7b00181

(4) Kiss, L., Bocsik, A., Walter, F.R., Ross, J., Brown, D., Mendenhall, B.A., Crews, S.R., Lowry, J., Coronado, V., Thompson, D.E., Sipos, P., Szabó-Révész, P., Deli, M.A., Petrikovics, I. *In Vitro* and *In Vivo* Blood-Brain Barrier Penetration Studies with the Novel Cyanide Antidote Candidate Dimethyl Trisulfide in Mice. 160(2), 398-407, ***2017.***

(5) Kiss, L., Holmes, S., Chou, C.E., Dong, X., Ross, J., Brown, D., Mendenhall, B., Coronado, V., De Silva, D., Rockwood, G.A., Petrikovics, I., Thompson, D.E. Method development for detecting the novel cyanide antidote dimethyl trisulfide from blood and brain, and its interaction with blood. *Journal of Chromatography B***. 2017,** 1044: 149-157, DOI: 10.1016/j.jchromb.2017.01.010

(6) Manandhar, E., Maslamani, N., Petrikovics, I., Rockwood,G.A., Logue, B.A. Determination of dimethyl trisulfide in rabbit blood using stir bar sorptive extraction gas chromatography-mass spectrometry.*Journal Chomatography A*. **2016**, 1461:10-7, DOI:10.1016/j.chroma.2016.07.046.

(7) Kovacs, K., Jayanna, P. K., Duke, A., Winner, B., Negrito, M., Angalakurthi, S., Yu, J.C.C., Füredi, P., Ludányi, K., Sipos, P., Rockwood, G.A., Petrikovics, I. A Lipid Base Formulation for Intramuscular Administration of a Novel Sulfur Donor for Cyanide Antagonism. *Current Drug Delivery*. **2016,** 13(8); 1351-1357. DOI: 10.2174/1567201813666160321115851.

(8) Kovacs, K., Duke, A.C., Shifflet, M., Winner, B., Lee, S.A., Rockwood, G.A., Petrikovics, I. Parenteral dosage form development and testing of dimethyl trisulfide, as an antidote candidate to combat cyanide intoxication. *Pharmaceutical Development and Technology*. **2016,** 7:1-6, DOI: 10.3109/1083745.2015.1125923.

(9) Stutelberg, M.W., Dzisam, J.K., Monteil, A.R., Petrikovics, I., Boss, G.R., Patterson, S.E., Rockwood, G.A., Logue, B.A. Simultaneous determination of 3-mercaptopyruvate and cobinamide in plasma by liquid chromatography-tandem mass spectrometry. *J.Chromatography B*, **2016**, 1008:181-188.

(10) Bartling, C.M., Andre, J.C., Howland, C.A., Hester, M.E., Cafmeyer, J.T., Kerr, A., Petrel, T., Petrikovics, I., Rockwood, G.A. Stability characterization of a polysorbate80-dimethyl trisulfide formulation, a cyanide antidote candidate. Drugs R.D. **2016**, 16:109-127. DOI: 10.1007/s40268-016-0122-3.

(11) Rockwood G.R., Thompson, D.E., Petrikovics, I. Dimethyl Trisulfide: A Novel Cyanide Countermeasure. Toxicology and Industrial Health. **2016**, DOI: 10.1177/0748233715622713. (Available online)

(12) Roy, J.R., Budai, L., Kiss, L., Szilasi, M.E., Petrikovics, I., Budai, M. Liposomal Encapsulation of Photoprotector Molecules. Research & Reviews: Journal of Pharmaceutics and Nanotechnology **2015.** (e-ISSN: 2347-7857-3-101; p-ISSN:2347-7849).

(13) Petrikovics, I., Budai. M., Kovacs, K. and Thompson, D.E. Past, Presence and Future of Cyanide Antagonism Research (From the ancient remedies to the recent combination therapy). World J. Methodol, 5(2): 88-100, **2015**. DOI**:** http://dx.doi.org/10.5662/wjm.v5.i2.88

(14) Bhandari, R.K., Oda, R.P., Petrikovics, I., Thompson, D.E., Brenner, M., Mohan, S.B., Bebarta, V. S., Rockwood, G.A. Logue, B. A. Cyanide Toxicokinetics: The Behavior of Cyanide, Thiocyanate and 2-Amino-2-thiazoline-4-carboxylic Acid in Multiple Animal Models. J. Anal. Toxicology, (**2014**), 38(4) 218-225.

(15) Wijesooriya, C., Budai, M. Budai, L., Szilasi, M. E. Szilasi, Petrikovics,I. Optimization of liposomal encapsulation for ceftazidime for developing a potential eye drop formulation. Journal of Basic Clin. Pharm. 4, 73-75, **2013**. IP: 178,48,84,89.

(16) Manage, B.W.M., Petrikovics, I. Confidence Limit Calculation Method for Antidotal Potency Ratios (APR) Derived from two LD50 Values Determined by the Dixon Method. Journal of World Methodology, 26, 3(1): 7-10, **2013**. (http://dx.doi.org/10.4329/wjm.v3.il.00)

(17) Budai, L., Kaszas, N., Grof, P., Lenti, K., Maghami, k., Klebovich, I., Petrikovics, I., Budai, M. Liposomes for topical use: physico-chemical comparison of vesicles prepared from egg or soy lecithin. Sci. Pharm, 81, 1151-66, **2013**.DOI: 10.3797/scipharm.1305-11

(18) Kovacs K., Ancha, M., Jane M., Lee S., Angalakurthi, S., Negrito, M., Rasheed S. Nwaneri, A., Petrikovics I. Identification, Solubility enhancement and in vivo testing of a cyanide antidote

candidate. European Journal of Pharm. Sci. 49, 352-358. **2013**. (http://dx.dorg/10.1016/j.ejps.2013.04.007)

(19) Yu, J.C.C., Martin, S., Nasr, J., Stafford, K., Thompson, D.E., Petrikovics, I. LC-MS/MS Analysis of 2-Aminothiazoline-4-Carboxylic Acid as a Forensic Biomarker for Cyanide Poisoning. Journal of World Methodology, 26, 2(5), 1-7, **2012**. Doi:10.4329/wjm. v2.i5.1

(20) Bhandari, R.K., Oda, R.P, Youso, S.I, Petrikovics, I., Bebarta V.S., Rockwood, G.A. and Logue, B.A. Simultaneous determination of cyanide and thiocyanate in plasma by chemical ionization gas chromatography mass-spectrometry (CI-GC-MS). Analytical and Bioanalytical Chemistry, 404(8), 2287-2294, **2012.** (http://dx.doi.org/10.1007/s00216-012-6360-5).

(21) Petrikovics, I., Yu, J.C.C., Thompson, D.E., Jayanna, P., Logue, B.A., Nasr,J., Bhandari, R.K., Baskin, S.I., Rockwood G.A. Plasma Persistence of 2-Aminothiazoline-4-Carboxylic Acid in Rat System Determined by Liquid Chromatography Tandem Spectrometry. *J. Chromatography B,* 81-84, 891-892, **2012**. DOI: 10.16/j.jchromb.201201.024.

(22) Petrikovics, I., Thompson, D.E., Rockwood, G.A., Logue, B.A., Martin, S., Jayanna, J., Yu, J.C.C. Organ-Distribution of the Metabolite 2-Aminothiazoline-4-Carboxylic Acid in a Rat Model Following Cyanide Exposure. *Biomarkers*,16(8):686-690. **2011.** DOI: 10.3109/1354750X.2011.626528.

(23) Petrikovics, I., Jayanna, P., Childress, J., Budai, M., Martin, S., Kuzmitcheva, G., Rockwood, G. A. Optimization of liposomal lipid composition for a new, reactive sulfur donor, and in vivo efficacy studies on mice to antagonize cyanide intoxication, *Journal of Drug Delivery*, **2011**. DOI:10.1155/2011/928626.

(24) Marzias, M.L., Frazier, K., Gundry, P.B., Ruiz, R.A., Petrikovics, I., Haines, D. Comparison of brain mitochondrial cytochrome c oxidase activity with cyanide LD50 yields insight into the efficacy of prophylactics. *Journal of Applied Toxicology*, **2011**. DOI 10.1002/jat.1709.

(25) Szilasi, M., Budai, M., Budai, L., Petrikovics, I. Nanoencapsulated and microencapsulated enzymes in drug antidotal therapy. *Toxicology and Industrial Health*, **2011**. DOI:10.1177/0748233711416946.

(26) Petrikovics, I., Wales, M., Budai, M., Yu, J.C.C., Szilasi M. Nano-Intercalated Organophosphorus Hydrolyzing Enzymes in Organophosphorus Antagonism. *AAPS Pharm. Sci. Tech.* **2011**. DOI: 10.1208/s12249-011-9728-5.

(27) Jackson, R., Petrikovics, I., Lai, E.P.C., Yu, J.C.C. Molecularly Imprinted Polymer Stir Bar Sorption Extraction and Electrospray Ionization Tandem Mass Spectrometry for Determination of 2-Aminothiazoline-4-Carboxylic Acid in Forensic Urine Analysis. *Anal. Methods*. Volume 2(5), 552-557, **2010**.

(28) Petrikovics, I., Baskin, S.I., Beigel, K.M., Schapiro, B.J., Rockwood, G.A., Manage, A.B.W., Budai, M., Szilasi M. Nano-intercalated Rhodanese in Cyanide Antagonism. *Nanotoxicology,* Vol. 4(2), 247-254, **2010**.

(29) Petrikovics, I., Budai, M., Childress, J., Rockwood, G.A., Baskin, S.I., Szilasi, M. Characterization of Liposomal Vesicles Encapsulating Rhodanese for Cyanide Antagonism. *Drug Delivery*, Vol. 16(6), 312-319, **2009**.

(30) Budai, M., Chapela, P., Budai, L., Wales, M.E., Petrikovics, I., Zimmer, A., Gróf, A., Klebovich, I., Szilasi M. Liposomal oxytetracycline and doxycycline: studies on enhancement of encapsulation efficiency. *Drug Discov. Ther*. Vol. 3, 13-17, **2009.**

(31) Budai, M., Chapela, P., Gróf, P., Klebovich, I., Zimmer, A., Wales, M.E., Wild, J.R., Petrikovics, I., Szilasi, M. Physico-chemical characterization of stealth liposomes encapsulating an organophosphate hydrolyzing enzyme. *J. Liposome Res*. Vol. 2, 1-6, **2009**.

(32) Petrikovics, I., Wales, M.E., Jaszberenyi, J.C., Budai, M., Baskin, S.I., Szilasi, M., Logue, B.A., Chapela, P., Wild, J.R. Enzyme-based intravascular defense against organophosphorus neurotoxins: Synergism of dentritic-enzyme complexes with 2-PAM and atropine. *Nanotoxicology,* Vol. 1, 85-92, **2007**.

(33) Baskin, S.I., Petrikovics, I., Platoff, G.E., Rockwood, G.A., Logue, B.A. Spectrophotometric Analysis of the Cyanide Metabolite 2-Aminothiazoline-4-Carboxylic Acid (ATCA). *Toxicological Methods and Mechanism*, Vol. 16, 339-345, **2006.**

(34) Arsenault, W.G., Boothe, D.M, Gordon, S.G., Miller M.W., Chalkley, J.R., Petrikovics I. Pharmacokinetics of carvedilol after intravenous and oral administration in conscious healthy dogs. *American Journal of Veterinary Research*, Vol. 66, 2172-2176, **2005**.

(35) Logue, B.A., Kirschten, N.P., Petrikovics, I., Moser, M.A., Rockwood, G.A., Baskin, S.I. Determination of the cyanide metabolite 2-aminothiazoline-4-carboxylic acid in urine and plasma by gas chromatography-mass spectrometry. *Journal of Chromatography*, Vol. 819, 237-244, **2005**.

(36) Petrikovics, I., Papahadjapoulos, D., Hong, K., Cheng, T-C., Baskin, S.I., Jiang, J., Jaszberenyi, J.C., Szilasi, M., McGuinn, W.D., Way, J.L. Comparing Prophylactic and Therapeutic Protection Against the Lethal Effects of Paraoxon. *Toxicological Sciences*, Vol. 77, 258-262, **2004**.

(37) Petrikovics, I., Cheng, T.C., Papahadjapoulos, D., Hong, K., Yin, R., DeFrank, J.J., Jiang, J., Song, Z.H., McGuinn, W.D., Sylvester, D., Pei, L., Madec, J., Tamulinas, C., Jaszberenyi, J.C., Barcza, T., Way, J.L. Long Circulating Liposomes Encapsulating Organophosphorus Acid Anhydrolase in Diisopropylfluorophosphate Antagonism. *Toxicological Sciences*, 57, 16-21, **2000**.

(38) Petrikovics, I., Hong, K., Papahadjapoulos, D., Yuzapavik, P., Jiang, J., Yin, R., Cheng, T.C., DeFrank, J.J., McGuinn, W.D., Sylvester, D., Way, J.L. In vitro Studies on Sterically Stabilized Liposomes (SL) as Enzyme Carriers in Organophosphorus (OP) Antagonism. *Drug Delivery*, Vol. 7, Issue 2: 83-89, **2000**.

(39) Petrikovics, I., Hong, K., Omburo, G., Hu, Q., Pei, L., McGuinn, W.D., Sylvester, D., Tamulinas, C., Papahadjapoulos, D., Jaszberenyi, J.C., Way, J.L. Antagonism of Paraoxon Intoxication by Recombinant Phosphotriesterase Encapsulated within Sterically Stabilized Liposomes. *Toxicology and Applied Pharmacology*, Vol.156, 56-63, **1999**.

(40) Petrikovics, I., Cannon, E.P., McGuinn, W.D., Pei, L. and Way, J.L. Cyanide Antagonism with Organic Thiosulfonates and Carrier Red Blood Cells Containing Rhodanese. *Fundamental and Applied Toxicology*, Vol. 24, 1-8, **1995.**

(41) Pei, L., Petrikovics, I., Way, J.L. Antagonism of the Lethal Effect of Paraoxon by Carrier Erythrocytes Containing Organophosphorous Acid Anhydrase. *Fundamental and Applied Toxicology,* Vol. 28, 209-214, **1995**.

(42) Petrikovics, I., McGuinn, W.D., Cannon, E.P., Pei, L., Way, J.L. Encapsulation of Rhodanese and Organic Thiosulfonates by Mouse Erythrocytes. *Fundamental and Applied Toxicology*, Vol. 23, 70-75, **1994.**

(43) Pei, L., Omburo, G., McGuinn, W.D., Petrikovics, I., Dave, K., Raushel, F.M., Wild, J.R., DeLoach, J., Way, J.L. Encapsulation of Phosphotriesterase within Murine Erythrocytes. *Toxicology and Applied Pharmacology*, Vol. 124, 296-301, **1994**.

(44) McGuinn, W.D., Baxter, L., Pei, L., Petrikovics, I., Cannon, E.P., Way, J.L. Antagonism of the Lethal Effects of Cyanide by Synthetic Water Soluble Cobalt (III) Porphyrin Compound. *Fundamental and Applied Toxicology*, Vol. 23, 76-80, **1994**.

(45) Cannon, E.P., Leung, P., Hawkins, A-Zitzer., Petrikovics, I., Deloach, J., Way, J.L. Antagonism of Cyanide Intoxication with Murine Carrier Erythrocytes Containing Bovine Rhodanese and Sodium Thiosulfate. *Journal of Toxicology and Environmental Health*, Vol. 41, 267-274, **1994**.

(46) Pei, L., McGuinn, W.D., Omburo, G., Hawkins, A-Zitzer., Petrikovics, I., Cannon, E.P., Way, J. L. Spectrophotometric Determination of Paraoxonase within Mouse Carrier Erythrocytes. *Biochemistry and Applied Biotechnology*, Vol. 23, 35-41, **1994.**

(47) McGuinn, W.D., Cannon, E.P., Chui, C.K., Pei, L., Petrikovics, I., Way, J.L. The Encapsulation of Squid Diisopropylphosphorofluoridate-Hydrolyzing Enzyme within Mouse Erythrocytes. *Fundamental and Applied Toxicology*, Vol. 21, 38-43, **1993.**

(48) Pei, L., McGuinn, W.D., Petrikovics, I., Cannon, E.P., Way, J.L. Determination of Organophorous Acid Anhydrase in Blood. *Toxicology Methods*. Vol. 3, Issue 4: 261-267, **1993**.

(49) Petrikovics, I., Jaszberenyi, J.C., Hernadi, F., Sztaricskai, F., Bognar, R., Batta, Gy., Benesch, L. Synthesis and Bioactivity of beta-Lactamase Inhibitory Iodopenicillanic Acid Derivatives. *Acta Chim. Acad. Sci. Hung*., Vol. 128, Issue 1:41-52, **1991**.

(50) Leung, P., Cannon, E.P., Petrikovics, I., Way, J.L. In Vivo Studies on Rhodanese Encapsulation in Mouse Carrier Erythrocytes. *Toxicology and Applied Pharmacology*, Vol. 110, 268-274, **1991**.

(51) Jaszberenyi, J.C., Pitlik, J., Kollar, K., Petrikovics, I., Erdodine-Kover, K., Batta, Gy. Synthesis and 1,3-Dipolar Cycloadditions of 2-Methylenecephalosporins. *Acta Chim. Acad. Sci. Hung*., Vol. 126, 81-97, **1989**.

(52) Hernadi, F., Petrikovics, I., Jaszberenyi, J.C., Frommer-Filep, M. Inhibition of Beta-Lactamases by Halopenicillanic Acid Derivatives. *International Journal of Experimental Clinical Chemotheraphy*, Vol. 2, Issue 4: 209-214, **1989**.

(53) Hernadi, F., Jaszberenyi, J.C., Petrikovics, I. Complex Analysis Methods for Study of Beta-Lactamase Inhibitors. *American Clinical Products Review*, Vol. 5, 18-27, **1986**.

(54) Hernadi, F., Jaszberenyi, J.C., Petrikovics, I. Complex Biological Analysis Methods for Study of beta- Lactamase Inhibitors. *American Biotechnology Lab.*, Vol. 3, 0-20, **1985**.

(55) Kiss, L., Gal, Z., Tothmartinez, B.L., Petrikovics, I. Use of Chromatofocusing for Separation of Beta-Lactamases. *Journal of Chromatography*, Vol. 262, 379-384, **1983**.

(56) Jaszberenyi, J.C., Petrikovics, I., Gunda, E.T., Hosztafi, S. On the Mannich-reaction of Cephalosporin Sulphoxides and Sulphones. Acta Chim. *Acad. Sci. Hung.,* Vol. 110, 81-84, **1982**.

(57) Jaszberenyi, J.C., Dinya, Z. Punyiczki, M., Kover, E.K., Schag, J., Petrikovics, I. Synthesis and Beta-Lactamase Inhibitory Properties of Derivatives of Beta-Lactam Antibiotics. Biol. *Natural Products*, Vol. 3, 78-81, **1981**.

Book Chapters

*Total: **8**;*
*SHSU: **1***

(1) David Thompson and Ilona Petrikovics. Cyanide physicochemical properties, synthesis, uses and applications in: "Toxicology of Cyanides and Cyanogens: Experimental, Applied and Clinical Aspects", pp.41-53, Eds. Hall, A.H., Isom, G.E., Rockwood G.A., John Wiley & Sons, Chichester, West Sussex, UK. **2015**.

(2) Baskin, S.I., Petrikovics, I., Kurche, J.S., Nicholson, J.D., Logue, B.A., Maliner, B.I., Rockwood, G.A. Insights on Cyanide Toxicity and Methods of Treatment. In: *Pharmacological Perspectives of Toxic Chemicals and Their Antidotes*, pp 105-146. Eds. Flora, S. J. S., Romano, J. A., Baskin, S. I. and Sekhar, K. Narosa Publishing House, New Delhi, India, **2004**.

(3) Cheng, T-C., Harvey, S.P., DeFrank, J.J., Petrikovics, I., and Rastogi, V.P. Bacterial Ezymes – Potential Applications for Personnel/Casualty Decontamination Against G, V, and H, D Chemical Agents. In: *Pharmacological Perspectives of Toxic Chemicals and Their Antidotes*, pp 87-95. Eds. Flora, S. J. S., Romano, J. A., Baskin, S. I. and Sekhar, K. Narosa Publishing House, New Delhi, India, **2004.**

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(4) Way, J.L., Pei, L., Petrikovics, I., McGuinn, D.W., Tamulinas, C., Hu, Q-Z., Cannon, E.P., Hawkins, A-Zitzer. Organophosphorus Antagonism by Resealed Recombinant Paraoxonase. In: *Erythrocytes as Drug Carriers in Medicine*. Eds. Sprandel and Way, pp. 89-91, Plenum Press, New York, **1996.**

(5) Petrikovics, I., McGuinn, W.D., Cannon, E.P., Pei, L., Pu, L., Chen, A., Way, J.L. Carrier Red Blood Cells in Cyanide Antagonism. In: *Resealed Carrier Red Blood Cells as Bioreactors.* (Eds. Way and Deloach). Adv. Biosci. 92: 125-129. Pergamon Press, Oxford, U.K., **1993.**

(6) Pei, L., McGuinn, W.D., Petrikovics, I., Pu, L., Way, J.L. Hydrolysis of Paraoxon by Paraoxonase Encapsulated within Carrier Murine Erythrocytes. In: *Resealed Carrier Red Blood Cells As Bioreactors*. (Eds. Way and Deloach). Adv. Biosci. 92:131-135. Pergamon Press, Oxford, U.K., **1993**.

(7) Way, J.L, Baxter, L., McGuinn, W.D., Hawkins, A-Zitzer, Petrikovics, I. Occupational Hazards and Ocular Toxicity. In: *Ophthalmic Toxicology*. Ed.: Georges C.Y. Chiou. pp. 291-305, Raven Press, Ltd., New York, **1992.**

(8) Way, J.L., Cannon, E.P., Leung, P., Hawkins, A-Zitzer, Pei, L. and Petrikovics, I. Antagonism of the Lethal Effects of Cyanide with Resealed Murine Carrier Erythrocytes Containing Rhodanese and Thiosulfate. In: *The Use of Resealed Erythrocytes as Carriers and Bioreactors,* Eds.: Magnani M and Deloach J.R., pp. 159-163, Plenum Press, New York, **1992**.

Proceedings

*Total: **8***

(1) Petrikovics, I., Cheng, T-C., Papahadjapoulos, D., Hong, K., Yin, R., DeFrank, J.J., Jiang, J., McGuinn, W.D., Pei, L., Szilasi, M., Jaszberenyi, J.C., Barcza, T., Way, J.L. Diisopropylfluorophosphate (DFP) Antagonism by Recombinant Organophosphorus Acid Anhydrolase (OPAA) Encapsulated within Sterically Stabilized Liposomes (SL). *Proceeding on Chemical and Biological Medical Treatment Symposia (*CMBTS III). Spiez, Switzerland, Europe. 48, **2002**.

(2) Cannon, E.P., Hawkins, A., McGuinn, W.D., Petrikovics, I., Leung, P., Way, J.L. Antagonism of the Lethal Effects of Cyanide with Rhodanese Containing Murine Carrier Erythrocytes*. Proc. West. Pharmacol. Soc.* 35:187-190, **1992**.

(3) Hernadi, F., Jaszberenyi, J. C., Petrikovics, I. Beta-Lactamase Inhibitors. *Dubrovnik Congress, Chemother*. 5(2):161-162, **1983**.

(4) Jaszberenyi, J.C., Bognar, R., Hernadi, F., Petrikovics, I., Benesch, L., Kover, E.K., Batta, Gy. Beta-Lactamase Inhibitory Penicillanic Acid Derivatives. Synthesis, Stereochemistry, Bioactivity. *Proc. Int. Congr. Chemother*., 41:38-51, **1983**.

(5) Hernadi, F., Jaszberenyi, J.C., Benesch, L., Czink, I., Petrikovics, I., Filep, F.M. and Schmidt, T. Synthesis and Study of Iodopenicillanic Acid Derivatives in a Complex Model System. Proc. *Int. Congr. Chemother*., 55: 52-89, **1983**.

(6) Jaszberenyi, J.C., Punyiczki, M., Petrikovics, I. Enzyme-Inhibitor Interactions: Beta-Lactamase enzymes. *Sejtosztodas Farmakol*., 10:75-92, **1981**.

Patent Applications

Total: ***11***
SHSU: ***3***

Issued Patents at SHSU:

1) Rockwood, G.A., Petrikovics, I., Baskin, S.I., Dimethyl Trisulfide as a Cyanide Antidote. U.S. Patent No. 9,375,407, issued June 28, 2016.

2) Petrikovics, I., Kovacs, K., Formulations of Dimethyl Trisulfide for use as a Cyanide Antidote. U.S. Patent No. 9,456,996, issued October 4, 2016.

3) Petrikovics, I., Jaszberenyi, J.C., Cyanide antidote compositions and methods of use, Patent No. US 20170071876 (under review)

Earlier Patent Applications:

1) JASZBERENYI CSABA, BOGNAR REZSO, PETRIKOVICS ILONA, SIMONIDESZ VILMOS, HUHN MAGDA, REMPORT JULIA, KOVACS GABOR, KULCSAR GABOR, BENESCH LUKRECIA, MARMAROSI KATALIN: Phosphorus containing semisynthetic cephalosporanic and penicillanic acid derivatives. Chinoin Gyogyszer Es Vegyeszet, December **1984**:GB2141124

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=19&ND=3&adjacent=true&locale=en_EP&FT=D&date=19841212&CC=GB&NR=2141124A&KC=A

2) BOGNAR REZSO, JASZBERENYI CSABA, FARKAS ERZSEBET, PUNYICZKI MARIA, HERNADI FERENC, EKE KATALIN, PETRIKOVICS ILONA: Derives de beta-lactame, les compositions pharmaceutiques les contenant et leur procede de preparation.Chinoin Gyogyszer Es Vegyeszet, January **1983**:FR2509311

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=19830114&CC=FR&NR=2509311A1&KC=A1

3) JASZBERENYI CSABA, BOGNAR REZSO, PETRIKOVICS ILONA, SIMONIDESZ VILMOS, HUHN MAGDA, REMPORT JULIA, RADOCZI NEE, KOVACS GABOR, KULCSAR GABOR, BENESCH LUKRECIA, MARMAROSI-NEE-KELLNER KATALIN: Phosphorus containing semisynthetic cephalosporanic and penicillanic derivatives. Chinoin Gyogyszer Es Vegyeszet, April **1985**:FR2552764

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=19850405&CC=FR&NR=2552764A1&KC=A1

4) BOGNAR REZSOE, JASZBERENYI CSABA, FARKAS ERZSEBET, PUNYICZKI MARIA, HERNADI FERENC, EKE KATALIN, PETRIKOVICS ILONA: Verfahren zur Herstellung von beta-Lactam-Verbindungen. CHINOIN GYOGYSZER ES VEGYESZET, October **1983**:DD203053

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=25&ND=3&adjacent=true&locale=en_EP&FT=D&date=19831012&CC=DD&NR=203053A5&KC=A5

5) JASZBERENYI CSABA; BOGNAR REZSOE; PETRIKOVICS ILONA; SIMONIDESZ VILMOS; HUHN MAGDA; REMPERTNE RADOCZI JULIA; KOVACS GABOR; KULCSAR GABOR; BENESCH LUKRECIA; MARMAROSI TAMASNE: Process for the production of derivatives of semisynthetic cefem carboxylic acids containing phosphorus and preparations containing such compounds. CHINOIN GYOGYSZER ES VEGYESZET, January **1987**: HU191212.

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=23&ND=3&adjacent=true&locale=en_EP&FT=D&date=19870128&CC=HU&NR=19

6) JASZBERENYI CSABA; BOGNAR REZSOE; PETRIKOVICS ILONA; SINONIDESZ VILMOS; HUHN MAGDA; REMPORTNE RADOCZI JULIA; KOVACS GABOR; BENESCH LUKRECIA; MARMAROSI TAMASNE; KULCSAR GABOR: Process for producing semisynthetic penicillin derivatives containing phosphorus and pharmaceutical compositions containing them. CHINOIN GYOGYSZER ES VEGYESZET, January **1987**:HU191213. Also published as: HUT34034.

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=22&ND=3&adjacent=true&locale=en_EP&FT=D&date=19870128&

7) JASZBERENYI CSABA; BOGNAR REZSOE; PETRIKOVICS ILONA; JOO FERENC; TROCSANYI ERIKA; SIMONIDESZ VILMOS,HUHN MAGDA; REMPORT GEB RADOCZI JULIA; KOVACS GABOR; KULCSAR GABOR; BENESCH LUKRECIA; MARMAROSI GEB KELLNER KATALIN: Phosphorus-containing acetic acid derivatives, processes for their preparation and pharmaceutical preparations containing these compounds. CHINOIN GYOGYSZER ES VEGYESZET, November **1984**:DE3418088. Priority number: HU19830001713 19830517.

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=21&ND=3&adjacent=true&locale=en_EP&FT=D&date=19841122&CC=DE&NR=3418088A1&KC=A1

7B) JASZBERENYI CSABA; BOGNAR REZSOE; PETRIKOVICS ILONA; JOO FERENC; TROCSANYI ERIKA; SIMONIDESZ VILMOS,HUHN MAGDA; REMPORT GEB RADOCZI JULIA; KOVACS GABOR; KULCSAR GABOR; BENESCH LUKRECIA; MARMAROSI GEB KELLNER KATALIN: Phosphorus-containing acetic acid derivatives, processes for their preparation and pharmaceutical preparations containing these compounds. CHINOIN GYOGYSZER ES VEGYESZET, November **1984**:DE3418088. Priority number: GB19840012637 19840517.

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=20&ND=3&adjacent=true&locale=en_EP&FT=D&date=19841212&CC=GB&NR=2141123A&KC=A

8) JASZBERENYI CSABA; LIPTAKNE TOEKES ADRIEN; PETRIKOVICS ILONA; MAKLEIT SANDOR; BOGNAR REZSOE; PITLIK JANOS: Process for the production of pyrimidinyl-piperazine derivatives. ALKALOIDA VEGYESZETI GYAR, May **1987**: HUT46908. Application number: HU19870002036 19870507.

http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=18&ND=3&adjacent=true&locale=en_EP&FT=D&date=19881228&CC=HU&NR=T46908A&KC=A

Peer-Reviewed Presentations/Posters (National, International Meetings)

Total: ***89***

Since 2007 at SHSU: ***70***

(Name of the student team members at SHSU underlined)

1) Li, S.Y, Yu, J.C.C, Petrikovics, I, Trace Level Extraction of the Cyanide (CN) Biomarker, 2-amino-2-thiazoline-4-carboxylic acid (ATCA), from Biological Samples by Applying Magnetic Carbon Nanotubes in Dispersive Solid Phase Extraction. *21st Biannual Medical Defense Bioscience Review* 2018, May 1-3, US Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD.

2) D.M. Hildenberger, V. Bebarta, M. Benner, S.M. Deleon, C. Green, T. Hendry-hofer, K. Kim, O. Lavon, D. S. Lippner, S. Mahon, T. Myers, I. Petrikovics, N. Rrauscher, N. Rice, M.O. Rhoomes, G. A. Rockwood. Animal model comparison of novel cyanide medical countermeasure dimethyl trisulfide (DMTS). *21st Biannual Medical Defense Bioscience Review* 2018, May 1-3, US Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD.

3) Kiss, M, Sipos, P, Warnakula, I.K, Whiteman, A, Rios, C.T, Upadhyaya, J, Barrera, I, Ralalage, R.D.G, Rockwood, G.A, Petrikovics, I. In Vivo Testing of the Novel Tricomponent-Microemulsion-Formulated Cyanide Antidote, Dimethyl Trisulfide. *21st Biannual Medical Defense Bioscience Review* 2018, May 1-3, US Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD.

4) Warnakula, I.K., Ebrahimpour, A., Kiss, M., Hewa R., C.C., Rios, C.T., Gaspe R., R.D., Rockwood, G.A., Petrikovics, I. Storage Stability Studies with the Formulated Cyanide Antidote Dimethyl Trisulfide (IM-DMTS). *57th SOT Annual Meeting*, March 11-15, **2018**, San Antonio, TX. (Abstract #: 2304, Board #: P649)

5) Kiss, M., Sipos, P., Warnakula, I.K., Vergara, M., Rios, C.T., Whiteman, A., Gaspe R., R.D., Rockwood, G.A., Petrikovics, I. Developing and Testing a New Intramuscular Formulation for the Cyanide Antidote Dimethyl Trisulfide. *57th SOT Annual Meeting*, March 11-15, **2018**, San Antonio, TX. (Abstract #: 2291, Board #: P636)

6) Hewa R., C.C., Gaspe R., R.D., Warnakula, I.K., Preethika, D.K.N., Baca, W., Kiss, L., Ebrahimpour, A., Petrikovics, I. Characterization of the cyanide antidote candidate SAX6 in two formulation forms: Blood Brain Barrier(BBB) penetration, Size distribution, *In vivo* efficacy

and Pharmacokinetics. *56th SOT Annual Meeting*, March 12-16, **2017**, Baltimore, MD. (Abstract #:2052, Board #:P214)

7) Gaspe R., R.D., Hewa R., C.C., Veltman, K., Logue, B., Thompson, D., Petrikovics, I., Ebrahimpour, A., Fluorescent detection method for the cyanide antidote SDX6 using a sulfane sulfur probe. *56th SOT Annual Meeting*, March 12-16, **2017**, Baltimore, MD. (Abstract #: 2073, Board #:P235)

8) Lippner D.S., Delon S.M., Hildenberger, D.M., Rhoomer M.O., Rockwood, G.A., Pennington, M.R., McDonough, J.A., Dixon, H., Petrikovics, I., Thompson, D.E., Logue, B.L., Bebarta, V., Basi, K.A. Preclinical Development of Novel Cyanide Medical Countermeasures. *NIH CounterAct Meeting*, June 12-14, **2017**, Boston, MA

9) Mendenhall, B., Kiss, L., Crews, S., Lowry, J., Coronado, V., Ross, J., Brown, D., Petrikovics, I. Absorption Kinetics and Blood Brain Barrier (BBB) Penetration by a Cyanide Antidote (CAX1) on a mice model. *55th SOT Annual Meeting*, March 13-17, **2016**, New Orleans, LA. (Abstract #: 2096, Board #: P540)

10) Kiss, L., Ebrahimpour,A., Hewa R., C.C., Gaspe Ralalage, R.D., Dong, X., Deli, M., Sipos, P., Revesz, P., Thompson, D.E., Rockwood, G.A., Petrikovics. Antidotal Efficacy and Pharmacokinetics of Dimethyl Trisulfide (DMTS) as a Novel Cyanide (CN) Antidote. *20th Biannual Medical Defense Bioscience Review* **2016,** June 6-9, US Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD. *(Poster Number: 071)*

11) Basi, K.S., DeLeon, S.M., Aragon M., Petrikovics,I., Thompson, D., Logue, B., Rhoomes, M.O., Hildenberger, D.M., Rockwood, G.A. Preclinical development of novel cyanide medical countermeasures. *20th Biannual Medical Defense Bioscience Review* **2016,** June 6-9, US Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD. *(Poster Number: 073)*

12) Kiss, L., Chou, Ch-E., Mendenhall, B., A., Crews, S.R., Coronado, V., Lowry, L., Dong, X., Chathuranga, H.R., Kaur,M., Alam, M.N., Hossain M.S., Thompson, D.E., Petrikovics, I. Analytical method developments for the cyanide antidote CAX1 for solubility, pharmacokinetics and blood brain-barrier penetration characterization. *55th SOT Annual Meeting*, March 13-17, **2016**, New Orleans, LA. (Abstract #: 2128, Board #: P611)

13) Kiss, L., Holmes, S., Ross, J., Brown, D., Roy, R.J., Thompson, D.E., Petrikovics, I. A novel cyanide antidote's pH dependence and its potential use in oral formulations**.** *54th Annual Meeting of the Society of Toxicology,* March 23-26, **2015**, San Diego, CA.
(Abstract Number/Poster Board number: 2500, Poster -132).

14) Hossain, S., Dong, X., Petrikovics, I., Thompson, D.E. Sensing of New Potential Cyanide Countermeasures by Surface Enhanced Raman Spectroscopy. *Annual Meeting of the Society of Toxicology,* March 23-26, **2015**, San Diego, CA. (*Abstract #: 2507/Poster Board-139*)

15) Petrikovics, I., Thompson, D.E, Lee, S., Chou, C-E., Stephen, E., Ross, J., Logue, B.A., Boss,G., Rockwood, G.A. : Efficacy and Pharmacokinetic Studies of New Potential Cyanide Countermeasures in a Mouse Model*. 54th Annual Meeting of the Society of Toxicology*, March 23-26, **2015,** San Diego, CA. (Abstract Number/Poster Board number: 2079, Poster Board -158)

16) Yoon, D., Mahon, S.B., Lee, J., Mukai, D., Burney, T., Petrikovics, I., Chan, A., Boss, G., Brenner, M. Lethal Oral Cyanide Poisoning Reversed by Intramuscular Cobinamide in a

Rabbit Model. *54th Annual Meeting of the Society of Toxicology*, March 23-26, **2015**, San Diego, CA. (Abstract Number/Poster Board number: 2089 Poster Board -168).

17) Petrikovics, I., Duke, A., Lee, S., Racheed, S., Olvera, J., Siva, A., De Jesus, S., Aleman, J., Miller, E., Chou, C-E, Kovacs, K. Solubility and efficacy studies with three poorly water soluble sulfur donors as potential cyanide antidotes. *53th SOT Annual Meeting,* March 23-27, **2014,** *Phoenix,* AZ**.**

18) Lee, S.A., De Silva, D., Miller, E.N., Petrikovics,I., Thompson, D.E. Reaction of ATCA and 2-IT to use ATCA as a biomarker for cyanide intoxication, *ACS National Meeting,* March 16-20, **2014***,* Dallas*,* TX, Poster #: 149.

19) Petrikovics, I., DeSilva, D., Lee, S., Logue, B.A., Budai, M., Kovacs, K., Thompson, D.E. Cyanide as an environmental contaminant and protecting against its toxic effects. *SETAC Europe 24th AnnuaL Meeting*, May 12-16, **2014,** Basel, Switzerland. Poster ID: TH165

20) Thompson, D.E and Petrikovics I. Investigating Dimethyl Thisulfide (DMTS) as a Potential Cyanide Countermeasure. *Bioscience Meeting*, May 11-15, **2014,** Baltimore, MD. (P12)

21) Downey, J.D., Petrikovics, I., Thompson, D.E., A. Logue, B.A., Brenner, M.,Boss, G.R., Mahon, S.B., DeFreytas, M.R., Hildenberger, D.M., Allen,A.R., and Rockwood G.A. *In vivo* efficacy and optimization of novel cyanide countermeasures. *8th Annual CounterAct Network Research Symposium.* June 17-19, **2014,** Denver, CO, Section 3

22) Brenner, M., Mahon S., Boss, G., Lee, J., Petrikovics, I., Patterson, S., Rockwood, G.A Collaboration Studies for Acceleration of advanced CN Antidote Agents for Mass Casualty Exposure Treatments: DMTS. *NIH CounterAct Meeting, June* 25-27**, 2013,** Bethesda, MD, (C.4. Page 96).

23) Rockwood, G., Petrikovics, I., Logue, B., Boss, G., Mahon, S., *In vivo* efficacy and optimization of novel cyanide countermeasures [IAA AOD 12060-001-0000/A 120-B. P2012-01) NIH *CounterAct Meeting,* June,25-27, **2013**, Bethesda, MD. (C.3. Page 96).

24) Negrito, M., Kovacs, K., Ancha, M., Jane, M., Lee, S., Angalakurthi, S., Rasheed, S., Petrikovics, I. Solubility Enhancement Studies for a Potential Cyanide Antidote. *52th Annual Meeting of the Society of Toxicology,* March 10-14, **2013**, San Antonio, TX. (Abstract #: 2054, Poster #: 111, Page #: 301)

25) Petrikovics, I., Kovacs, K., Budai, M., Winner, B., Negrito, M., Jayanna, P., Furedi, P., Rockwood, G. Lipid based formulations for pre-clinical application of therapeutic agents against cyanide intoxication. *World Congress of Clinical Lipidology*, December, **2012**, Budapest, Hungary.

26) Petrikovics, I., Jaszberenyi, J.C., Ancha, M., Feleke, B., Nagy, A., Kovacs, K., Rockwood, G.A. "Complex Model System" for Investigating New Sulfur Donors for Cyanide Antagonism", *51th Annual Meeting of the Society of Toxicology (SOT).* March, 11-15, **2012,** San Francisco, CA. (Abstract#: 1355, Poster#: 158, Page#:247)

27) Yu, J.C.C., Petrikovics, I., Thompson, D.E., Logue, B.A., Baskin, S.I., Rockwood, G.A. Plasma Residence Time and Organ Distribution Determination of the Cyanide Metabolite 2-Aminothiazoline-4-Carboxylic Acid in Rat System. *51th Annual Meeting of the Society of Toxicology (SOT)*. March, 11-15, **2012,** San Francisco, CA. (Abstract#: 2457, Poster#: 464, Page#: 342)

28) Winner, B., Ngo, P., Negrito M., Kovacs, K., Petra, F., Petrikovics, I., Rockwood, G.A. Micellar Encapsulated Sulfur Donors to Combat Cyanide Intoxication. *51th Annual Meeting*

of the Society of Toxicology (SOT). March, 11-15, **2012**, San Francisco, CA. (Abstract #: 677, Poster#: 461, Page#: 183)

29) Petrikovics, I., Thompson, D., Holmes, S., Logue, B.A., Bhandari, R.K., Rockwood, G.A, Yu, J.C.C. Can ATCA Serve as a Diagnostic or a Forensic Biomarker for Cyanide Exposure? *BioScience Meeting*, **2012,** Baltimore, MD**.** (P036)

30) Thompson, D.E., Parbatani, A., De Silva, Deepti, Totman, E, Thapaliya, S., Petrikovics, I., Rockwood, G.A. Incorporating Mesoporous Thin Films into Optical Cyanide Sensing Surfaces. *BioScience Meeting*, **2012,** Baltimore, MD. (P038)

31) Bhandari, R.K., Oda, R.P., Petrikovics, I., Bebarta, V.S., Rockwood, G.A., Logue, B.A. Assessing the Toxicokinetic Behavior of Cyanide, Thiocyanate and 2-Amino-2-Thiazoline-4-Carboxylic Acid (ATCA) Following Cyanide Exposure in Multiple Animal Models. *BioScience Meeting*, **2012**, Baltimore, MD. (P078)

32) Rockwood, G.A., Booker, L., Gangwer, K., Shupe, M., Harris, D., Doherty, M., Petrikovics, I. Advances in the Development of a Novel, Lipid-Based Sulfur Donor as a Cyanide Countermeasure. *BioScience Meeting*, **2012,** Baltimore, MD. (P079)

33) Kovacs, K., Ancha, M., Angalakurthi, S., Coveyou, K., Negrito, M., Winner, B., Jane, M., John, C., Rockwood, G.A., Petrikovics, I*. Development of an Intramuscular DMTS Formulation for Cyanide Antagonism. *BioScience Meeting,* **2012,** Baltimore, MD. (P084)

34) Rockwood, G.A., Booker, L., Gangwer, K., Shupe,M., Harris, D., Doherty, M., Petrikovics, I. Advances in the Development of a Novel, Lipid-Based Sulfur Donor as a Cyanide Countermeasure. *BioScience Meeting,* **2012,** Baltimore, MD. (Page 142)

35) Rockwood, G.A., Gangwer, K.A., Booker, L., Logue, B.A., Petrikovics, I., Peterson, R.T., Shupe, M.R., Harris, D.A., Doherty, M.R., Cyanide Diagnostics and Efficacy Testing of Next-Generation Cyanide Antidotes. *NIH CounterAct Meeting,* June, 26-28, **2012** (C.5., Page 5).

36) Winner, B.M., Negrito, M., Ancha, M., Ngo, P., Shifflet, M., Kovacs, K., Rockwood, G.A., Petrikovics, I. Micellar and Liposomal Encapsulated Sulfur Donors for Combating Cyanide Intoxication. BIT's *Ist Annual Symposium of Drug Delivery Systems. Shenzhen,* Nov 3-5, **2011**, Shenzhen, China.

37) Petrikovics, I., Wales, M. Protection against AChE inhibition. *50th Annual Meeting of the Society of Toxicology (SOT).* March 6-10, **2011**, Washington D.C. Abstract number: 2048, Board #: 639.

38) Petrikovics,I., Martin, S., Nasr, J., Thompson, D.E., Holmes, S., Yu, J.C.C. Employing a New Analytical Method for Measuring the Cyanide Metabolite, 2-aminothiazoline-4-Carboxylic Acid in Biological Samples. *50th Annual Meeting of the Society of Toxicology (SOT)*. March 6-10, **2011**, Washington D.C. Abstract number: 1689, Board #: 933.

39) Jayanna, P., Yu, J.C.C., Zottola, M., Ancha, M., Rockwood, G.A., Petrikovics, I*. Novel Sulfur Donor Formulations for Cyanide Antagonism. *50th Annual Meeting of the Society of Toxicology (SOT)*. March 6-10, **2011**, Washington D.C. Abstract number: 2024, Board #: 637.

40) Martin, S., Nasr, J., Yu, J.C.C., Petrikovics, I. Study of L-2-Aminothiazoline-4-Carboxylic Acid as a Biomarker for Cyanide Exposure by LC-MS/MS Analysis. *American Academy of Forensic Science.* February 21-26, **2011**, Hyatt Regency Hotel, 151 East Wacker Drive, Chicago, IL, USA, 60601.

41) Petrikovics, I., Kuzmitcheva, G., Budai, M., Haines, D., Nagy, A., Rockwood, G.A., Way, J. L. Encapsulated Rhodanese with Two New Sulfur Donors in Cyanide Antagonism. *XII. International Congress of Toxicology*, July 19-23, **2010**, Barcelona, Spain.

42) Petrikovics, I., Kern, R., Wild, J.R., Wales, M.E. Organophosphorus (OP)-Hydrolyzing Enzymes in OP Antagonism: Cholinesterase Inhibition as Indicator of OP Intoxication. *XII. International Congress of Toxicology*, July 19-23, **2010**, Barcelona, Spain.

43) Petrikovics, I., Stafford, K., Thompson, D.E., Jayanna, P., Yu, J.C.C. Determining the Biomarker Cyanide Metabolite 2-Aminothiazoline-4-Carboxylic Acid in Mice Liver after Cyanide Exposure. *XII. International Congress of Toxicology*, July 19-23, **2010**, Barcelona, Spain.

44) Roockwood, G.A., Zotolla, M.A., Petrikovics, I., Logue B.A., Peterson, B.A., Peterson, R.T., Doherty M.R., Hopkins, AC., Cyanide Diagnostic and Efficacy Testing of New Generation Cyanide Antidotes. *NIH CounterAct Annual Review*, June, **2010,** San Francisco, CA.

45) Reeves, T., Novikov, B., Grimsley, J.K., Wales, M.E., Petrikovics, I., Cerasoli, D., Wild, J.R., Catalytic Bioscavengers for Protection Against a Broad Spectrum of Chemical Warfare Agents, *NIH CounterAct Annual Review*, June, **2010**, San Francisco, CA.

46) Petrikovics, I., Manage, A.B.W., Budai, M., Rockwood, G.A., Way, J.L. Nano-intercalated Rhodanese Coupled with Sulfur Donors as Cyanide Antidotal Systems. *3rd International Conference on Nanotoxicology,* June 2-4, **2010**, Edinburg, UK.

47) Petrikovics, I., Kern, R., Wild, J.R., Wales, M.E. Nano-captured OP-Hydrolyzing Enzymes in OP Antagonism: Cholinesterase Inhibition as Indicator of OP Intoxication. *3rd International Conference on Nanotoxicology,* June 2-4, **2010,** Edinburg, UK.

48) Petrikovics, I., Stafford, K., Thompson, D.E., Yu, J.C.C. Determining the Biomarker Cyanide Metabolite 2-Aminothiazoline-4-Carboxylic Acid in Organ Samples After Cyanide Exposure, *Bioscience Review*, May 23-27, **2010**, Baltimore, MD.

49) Petrikovics, I., Kuzmitcheva, G., Jayanna, P., Budai, M., Haines, D., Childress, J., Rockwood, G. A., Liposomal - Encapsulated Rhodanese with New Sulfur Donors in Cyanide Antagonism. *Bioscience Review*, May 23-27, **2010**, Baltimore, MD,.

50) Harrison, M., Haines, D., Petrikovics, I., Studying the Efficacy of Antidotes for Metabolic Cyanide Poisoning. *Experimental Biology*, April, **2010**, Anaheim, CA.

51) Haines, D.C., Jansky, K., Ruiz, R., Petrikovics, I. Brain Mitochondrial Cytochrome c Oxidase Activity as a Marker for Cyanide Intoxication and Prophylaxis. *49th Annual Meeting of Society of Toxicology,* **2010**, March, Salt Lake City.

52) Petrikovics, I., Kuzmicheva, G., Budai., M., Childress, J., Hogue, J., Johnson,T. Rhodanese Encapsulation for Cyanide Antagonism. *48th Annual Meeting of Society of Toxicology,* March, **2009**, Baltimore, MD. (Chemicals and Biological Weapons, Poster #: 2308/EA 65).

53) Jackson, R., Yu, J.C.C., Petrikovics, I. A New Rapid Analytical Method for the Cyanide Metabolite, ATCA, Determination by Molecular Imprinted Polymer Stir Bar Sorption Extraction and Electrospray Ionization Tandem Mass Spectrometry. *48th Annual Meeting of Society of Toxicology,* March, ***2009****,* Baltimore, MD. (Biomarkers and Bio-monitoring Section, Poster #: 2286/ EA 37).

54) Zottola, M.A., Logue, B.A., Petrikovics, I., Peterson, R.T., Baskin, S.I., Beigel, K.M., Doherty, M. R., Hopkins, A., Rockwood, G.A.* Cyanide Diagnostics and Efficacy Testing of Next

Generation Cyanide Antidotes. *3rd Annual CounterAct Workshop*, April 13-16, **2009**, Washington, D.C.

55) Grimsley, J.K., Novikov, B., Wales, M.E., Petrikovics, I., Reeves, T., Cerasoli D., and Wild, J.R. Intravascular Enzyme-Based Therapies for a Wide Spectrum of Chemical Warfare Neurotoxic Agents.*3rd Annual CounterAct Workshop*, April 13-16, **2009,** Washington, D.C.

56) Jicsinszky, L., Petró, M., Horváth, Gy., Way, J.L., Szejtli, J., Petrikovics, I. Cyclodextrin Conjugates: Dreams and Reality. *14th International Cyclodextrins Symposium* (invited), May 8-11, **2008**, Kyoto, Japan.

57) Petrikovics,I., Budai, M., Grof, P., Beigel, K.M., Zimmer, A., Childress, J., Rockwood, G. A., Klebovich, I., Baskin, S.I. Optimizing Lipid Composition of Stealth Liposomes Encapsulating Rhodanese for Cyanide Antagonism. *Bioscience Meeting***,** June 1-6, **2008,** Baltimore, MD.

58) Budai, M., Chapela, P., Grimsley, J., Novikov, B.N., Gróf, P., Klebovich, I., Zimmer, A., Szilasi, M., Wales, M.E., Wild, J.R., Petrikovics, I. Optimal Liposomal Composition Determination and Physicochemical Characterization of Stealth Liposomes (SL) Encapsulating Organophosphorous Hydrolase (OPH). *3rd International Paraoxonase Meeting*, Sept, **2008,** Los Angeles, CA.

59) Rockwood, G.A., Zottola, M.A., Petrikovics, I., Logue, B.A., Beigel, K.M., Peterson, R.T., Baskin, S.I. Efficacy Testing of Next Generation Cyanide Antidotes and Development and Evaluation of Improved Cyanide Diagnostic Strategies. *CounterAct Annual Program Review*. April **2008**, Washington, D.C.

60) Kern, R., Novikov, B., Grimsley, J., Wales, M.E, Petrikovics, I., Reeves,T., Cerasoli, D., Wild, J.R. Intravascular Enzyme-Based Therapies for a Wide Spectrum of Chemical Warfare Neurotoxic Agents. *CounterAct Annual Program Review*. April **2008,** Washington, D.C.

61) Budai, M., Chapela, P., Wales, M.E., Klebovich, I., Petrikovics, I. Liposomal Enzyme Encapsulation and Stability Studies with Liposomes. (In Hungarian: Enzimek liposzómába zárása és stabilitásának vizsgálata). *Pharmacokinetics and Drug Metabolism Symposium*, April 2-4, **2008**. Galyatető, Hungary.

62) Petrikovics, I., Budai, M., Beigel, K. M., Scharpiro, B. J., Gróf, P., Zimmer, A., Childress, J.*, Rockwood, G.A., Baskin, S.I. Sterically Stabilized Liposomes Encapsulating Rhodanese for Cyanide Antagonism. *47th Annual Meeting of Society of Toxicology,* March 16-20, **2008,** (Seattle, WA, (Poster#; 240).

63) Petrikovics, I., Wild, J. R., Budai, M., Gróf, P., Zimmer, A., Klebovich, I., Chapela P., Wales, M.E. Physico-chemical characterization of stealth liposomes encapsulating a hydrolyzing enzyme employed in organophosphorus antagonism. *47th Annual Meeting of Society of Toxicology*, March 16-20, **2008**, Seattle, WA, (Poster#: 512)

64) Rockwood, G.A., Petrikovics, I., Zottola, M.A., Logue, B.A., Beigel, K.M., Schapiro, B.J. Baskin, S.I. Efficacy Testing of Next Generation Cyanide Antidotes and Development and Evaluation of Improved Cyanide Diagnostic Strategies. *NIH CounterAct Poster,* April, **2007,** Washington DC.

65) Grimsley, J., Kern, R., Wales, M.E., Petrikovics, I., Cerasoli, D. and Wild, J.R. Development of an Enzyme-Based, Intravascular Defense Against Neurotoxic Chemical Warfare Agents. *NIH CounterAct Poster*, April, **2007**, Washington DC.

66) Jicsinszky, L., Petrikovics, I., Petró, M., Horváth, Gy., Szejtli, J., Way, J.L. Enhanced mean residence time of drugs by conjugation with cyclodextrins. *Annual Meeting of the Carbohydrate Group of the Hungarian Academy of Sciences* (in English), May 23-25, **2007**, Mátrafüred, Hungary, Europe.

67) Jicsinszky, L., Petrikovics, I., Petró, M., Horváth, Gy., Szejtli, J., Way, J.L. Improved drug delivery by conjugation with cyclodextrins. *14th European Carbohydrate Symposium* (OP-50) Sept 2-7, **2007**, Lübeck, Germany.

68) Budai, M., Gróf, P., Zimmer, A., Wales, M.E., Wild, J. R., Klebovich, I., Chapela, P., Petrikovics, I., Szilasi, M. Liposome Encapsulated Organophosphorous Hydrolase Enzyme as Antidotal Package Against Organophosphorous Intoxication. *Annual Pharmaceutical Meeting "From the Molecules to the Therapeutic Drugs*", November, **2007,** Szeged, Hungary, Europe.

69) Petrikovics, I., Wales, M.E., Wild, J.R., Jaszberenyi, J.C., Budai, M., Barcza, T., Baskin, S. I., Szilasi, M. Polyoxazoline – Based Nanocapsule as an Enzyme Carrier for Organophosphorus Hydrolyzing Enzymes in Organophosphorus Antagonism. *2nd International Nanotoxicology Meeting*, Italy, Europe, April, **2007.**

70) Petrikovics, I., Beigel, K.M., Rockwood, G.A. and Baskin, S.I. Investigation of new sulfur donors for cyanide antagonism. *46th SOT Meeting*, March 25-29, **2007**, Charlotte, NC.

71) Petrikovics, I., Cheng, T-C., Rastogi, V.K., Yin, R., Baskin, S.I., Jaszberenyi, J.C., Barcza, T., Szilasi, M., Way, J.L. Potential applications of bacterial paraoxonases (OPH) for developing new therapeutic agents and personnel/casualty decontamination composites against organophosphorus (OP) nerve agents. *2nd International Conference on Paraoxonases*. Hajduszoboszlo, Hungary, Sept 7-10, **2006**. Section: PON in Toxicology, P20, page 84.

72) Logue, B.A., Pieper, B.J., Petrikovics, I., Moser, M.A., Baskin, S.I., Rockwood G.A. (2004). Determination of Cyanide Metabolite, 2-aminothiazoline-4-carboxylic acid, in Urine by Gas Chromatography and Mass Spectrometry. *227th National Meeting of the American Chemical Society: Division of Analytical Chemistry*, Anaheim, CA, March 28-April 1; Abstract 100. Also presented at Bioscience Review **2004**, Hunt Valley, MD, May, 17-21.

73) Petrikovics, I., Baskin, S.I., Logue, B.A., Wales, M.E., Wild, J.R, Boothe, D., Yin, R., Szilasi, M., Hong, K., Way, J.L. **(2004**). Recombinant organophosphorus hydrolase (OPH, paraoxonase) as an active therapeutic agent derived from nanotechnology. *First International Conference on Paraoxonase:* Basic and Clinical Directions of Current Research. April, 2004, University of Michigan, Michigan, USA.

74) Baskin, S.I., Logue, B.A., Petrikovics, I., Platoff, G.E. (**2003**). The Role of the Cyanide Metabolite, 2-aminothiazoline-4-carboxylic acid, (ATCA) in the Detection of Cyanide Toxicity*. 6th Annual Army Force Health Protection (FHP) Conference in August 2003 by the U.S. Army Center for Health Promotion and Preventive Medicine CHPPM*. Aug. 2003, Albuquerque, NM.

75) Baskin, S.I., Logue, B.A., Petrikovics, I., Platoff, G.E. (**2003**). The Role of the Cyanide Metabolite, 2-amino-thiazoline-4-carboxylic acid (ATCA) in the Detection of Cyanide Toxicity. American Society of Toxicology, *42th Annual SOT Meeting*, Salt Lake City, Utah, March; *The Toxicologist*, Vol. 72/S1, Page 164.

76) Petrikovics, I., Cheng, T-C., Yin, R., DeFrank, J.J., Qin, D., Way, R., Szilasi, M., Jaszberenyi, J.C., Way, J.L. Nanotechnology and Recombinant Enzymes in Treating OP Intoxication. *Bioscience* **2002.** Medical Defense Review. Hunt Valley, MD.

77) Petrikovics, I., Cheng, T-C., Yin, R., DeFrank, J.J., Qin, D., Way, R., McGuinn, W.D., Pei, L., Jiang, J., Stansell, L., Sealock, R.J., Jaszberenyi, J.C., Way, J.L. Nanotechnology and Recombinant Enzymes -an Approach to Develop New Therapeutic Agents. *The Toxicologist,* **2002**, 41 (1), *American Society of Toxicology*, 41th Annual Meeting, Nashville, TN, USA.

78) Petrikovics, I., Cheng, T-C., Yin, R., DeFrank, J.J., Jiang, J., Way, J.L. Active Agent Derived from Biomedical Nanotechnology. The *6th US - Japan Symposium on Drug Delivery Systems*. December 16-21, **2001,** Hawaii, USA.

79) Petrikovics, I., Hong, K., Yin, R., Cheng, T-C., Jiang, J., Szilasi, M., Way, J.L. Therapeutic Efficacy of Phosphotriesterase Encapsulated within Sterically Stabilized Liposomes in Organophosphorus Intoxication. *The Toxicologist*, **2001**, 40(1) American Society of Toxicology, 40th Annual Meeting.

80) Petrikovics, I., Cheng, T-C., Papahadjapoulos, D., Hong, K., Yin, R., DeFrank, J.J., Jiang, J., McGuinn, W.D., Pei, L., Yuzapavick, P., Barcza, T., Way, J.L. DFP Antagonism by Recombinant OPAA Encapsulated within Sterically Stabilized Liposomes. *Workshop on Templated Nanoscale Synthesis and Reactivity*. **1999**, The Rodman Center Army Chemical Research Laboratory. October 20-21.

81) Petrikovics, I., Hu, Q-Z.,Hong, K., Pei, L., McGuinn, W.D., Cannon, E.P., Papahadjapoulos, D., Way, J.L. Antagonism of Organophosphorus Intoxication with Sterically Stabilized Liposomes (SL) Encapsulating Recombinant Paraoxonase. *The Toxicologist*, **1997**, 36(1) 345, *American Society of Toxicology, 36th Annual Meeting.*

82) Petrikovics, I., McGuinn, W.D., Cannon, E.P., Chen, A., Pu, L., Way, J.L. Carrier Red Blood Cells in Cyanide Antagonism. *International Society for the Use of Resealed Erythrocytes,* **1995,** p 25, San Antonio, TX. (Oral presentation)

83) Petrikovics, I., McGuinn, W.D., Cannon, E.P., Pei, L., Pu, L., Chen, A., Way, J.L. Properties of Organic Thiosulfonates and Rhodanese Encapsulated within Murine Resealed Erythrocytes. The Pharmacologist, **1993**, 35(3) 177, *American Society for Pharmacology and Experimental Therapeutics.*

84) Petrikovics, I., McGuinn, W.D., Cannon, E.P., Pei, L., Pu, L., Shed, S., Way, J.L. Cyanide Antagonism with Organic Thiosulfonates and Rhodanese Encapsulated within Murine Resealed Erythrocytes. *The Toxicologist*, **1993**, 13(1) 271, *Society of Toxicology.*

85) Petrikovics, I., McGuinn, W.D., Cannon, E.P., Pei, L., Shed, S., Chen, A., Pu, L., Way, J. L. Organic Thiosulfonates Sulfur Donor Substrates for Rhodanese Encapsulated in Carrier Red Blood Cells. *Gulf Coast Society of Toxicology, Fall Meeting*, **1992**, College Station, TX, Nov. 12-14.

86) Petrikovics, I., McGuinn, W.D., Cannon, E.P., Hawkins, A.J., Pei, L., Way, J.L. Encapsulation of Thiosulfonates and Cyanide-Sulfurtransferase by Mouse Carrier Erythrocytes. The Toxicologist, **1992,** 12(1) 336, Society of Toxicology.

87) Petrikovics, I., McGuinn, W.D., Cannon, E.P., Hawkins, A.J., Pei, L., Way, J.L. Rhodanese Reaction with Different Organic Thiosulfonates in Carrier Erythrocytes Containing Encapsulated Rhodanese. *Gordon Research Conference*, **1992,** "Drug Metabolism". Plymouth, NH.

88) Petrikovics, I., Hernadi, F., Jaszberenyi, J.C., Bognar, R. Synthesis and Structural Studies of Penicillanic Acid Derivatives. *31th International Congress of Pure and Applied Chemistry*, **1987**, Sofia, Bulgaria**.** (Poster 2, Section 9, 9.43).

89) Petrikovics, I., Hernadi, F., Jaszberenyi, J.C., M-Frommer, F. Study of Enzyme-Inhibitor Interaction between Beta-Lactamases and Halopenicillanic Acid Derivatives. *IUPHAR 9th International Congress of Pharmacology*, London, U.K. **1984**. (109P)

Presentations at Regional Meetings by My Students at SHSU (Since 2007)

Total: *64*

(Name of the team member students at SHSU underlined)

1) Warnakula, I.K., Kiss, M., Rios, C.T., Vergara, M., Gaspe Ralalage, R.D., Whiteman, A.C., Petrikovics, I. Storage Stability Studies with the SwRI Formulated Cyanide Antidote Dimethyl Trisulfide, Texas Academy of Science Meeting, March 2-4, **2018**, Midland, Texas. (Abstract 020.158)

2) *Warnakula, I.K., Kiss, M., Rios, C.T., Vergara, M., Gaspe Ralalage, R.D., Barcza, T., Petrikovics, I.* Redox reactions with dialkyl polysulfides. *ACS Regional Meeting,* October 29-November 1, **2017**, Lubbock, TX. (Abstract #: 2821927)

3) *Rios, C.T.S., Vergara M.N., Ebrahimpour, A., Kiss, M., Warnakula, I.K., Gaspe Ralalage, R.D., Hewa R, C.C., Barrera, I., Petrikovics, I. In vitro* and *in vivo* characterization of the cyanide antidote SDX6F2. *ACS Regional Meeting*, October 29-November 1, **2017**, Lubbock, TX. (Abstract #:2821909)

4) *Gaspe Ralalage, R.D., Hewa Rahinduwage, C.C., Warnakula, I.K., Rios, C.T., Kiss, M., Roy, R.J., Baca, W., Ebrahimpour, A., Petrikovics, I.* Comparison of three different cyanide antidote candidate sulfur donor molecules *in vitro* and *in vivo. ACS Regional Meeting,* October 29-November 1, **2017**, Lubbock, TX. (Abstract #:2821922)

5) Hewa R, C. C.; Gaspe Ralalage, R. D.; Warnakula, I.K.; Ebrahimpour, Afshin; Petrikovics, I. "Modelling Blood Brain Barrier (BBB) penetration by in-vitro parallel artificial membrane permeability study with the newly formulated cyanide (CN) antidote, dimethyl trisulfide (DMTS), *Texas Academy of Science Annual Meeting*, March, 3-5, **2017,** Belton, TX. (Abstract#: 017.044G)

6) Gaspe Ralalage, R.D, Hewa R., C.C., Ebrahimpour, A., Petrikovics, I., *In vitro* sulfur donor reactivity of various cyanide antidote candidates, *Texas Academy of Science Annual Meeting*, March, 3-5, **2017,** Belton, TX. (Abstract #: 007.006G)

7) *Carpenter, M., Kefer, E., Warnakula, I.K., Barrera, I., Gaspe Ralalage, R.D., Ebrahimpour, A. and Petrikovics, I.; Blood Partitioning and Elimination Study with SMDEX, a New Cyanide Antidote, Texas Academy of Science Annual Meeting,* March, 3-5, **2017**, Belton, TX. (Abstract#: 019.292G)

8) Coronado, V., Kiss, L., Ross, J., Lowry, J., Petrash, T., Chou, C.E., Holmes, S., De Silva, D., Petrikovics, I. *In vivo* investigations (efficacy and pharmacokinetics) with a New Cyanide Antidote. *Texas Academy of Science,* March 4-6, **2016,** Junction, TX.

9) Hewa R., C.C., Gaspe R., R.D., Ebrahimpour, A., Petrikovics, I., Determining the Surfactant and Stirring Effects on the Permeability of Dimethyl Trisulfide (DMTS) in the Parallel Artificial Membrane Permeability Assay (PAMPA). *American Chemical Society, Southwest Regional Meeting,* November, 10-13, **2016**, Galveston, TX. (Abstract #: 544)

10) Gaspe R., R.D., Hewa R., C.C., Ebrahimpour, A., Petrikovics, I., Different Sulfur Donor Efficacy for Cyanide Intoxication In vitro. *American Chemical Society, Southwest Regional Meeting,* November, 10-13, **2016**, Galveston, TX. (Abstract #: 498)

11) Carpenter, M., Kefer, E., Veltman, K., Gaspe R., R.D., Ebrahimpour, A., Petrikovics, I., Blood Partitioning of SDMEK, a New Cyanide Antidote. *American Chemical Society, Southwest Regional Meeting*, November, 10-13, **2016**, Galveston, TX.

12) Crews, S.R., Mak, T.K., Sutrisro M., Kiss, L., Petrikovics, I., Thompson, D.E., Investigating the solubility of a novel cyanide antidote and its binding potency to the walls of the containers. *Texas Academy of Science,* March 4-6, **2016,** Junction, TX.

13) Chathuranga, H.R.,Mendenhall, B., Ross, M., Baca, W., Petrikovics, I., Kiss, L. Investigating the Membrane Penetration of a novel Cyanide Antidote (CAX1) in a Blood Brain Barrier model (BBB-PARALLEL ARTIFICIAL MEMBRANE PERMEABILITY ASSAY). *Texas Academy of Science,* March 4-6, **2016,** Junction, TX.

14) Coronado, V., Kiss, L., Ross, J., Mendenhall, B., Petrash, T., Sutrisno, M., Kwan, M.T., Lowry, J., Petrikovics, I. *In vivo* Efficacy and Pharmacokinetics of a New Cyanide Antidote. *Woodlands Center Research Symposium*, April, **2016,** The Woodlands, TX**.**

15) Lowry, J., Mendenhall, B., Crews, S.R., Kiss, L., Petrikovics, I. Pharmacokinetic Properties of a Novel Cyanide Antidote Determined by High Performance Liquid Chromatography. *Woodlands Center Research Symposium*, April, **2016,** The Woodlands, TX.

16) Chathuranga, H.R., Medenhall, B., Ross, M., Baka, W., Petrikovics, I., Kiss, L. Investigating the membrane penetration of a novel cyanide antidote in Parallel Artificial Membrane Permeability Assay (PAMPA). *Woodlands Center Research Symposium*, April, **2016,** The Woodlands, TX.

17) Ross, J., Chou, C.E., Brown, D., Dong, X., Coronado, V., Mendenhall, B., Roy, R.J., Kiss,L., Petrikovics, I. Method Development to Detect the Cyanide Antidote, Sulfur Donor X, by Gas Chromatography-Mass Spectrometry. *Woodlands Center Research Symposium,* April, **2016,** The Woodlands, TX.

18) Crews, S.R., Mak, T.K., Sutrisno, M., Kiss, L., Petrikovics, I. Storage Stability and Solubility Enhancement of a Novel Cyanide Antidote. *Woodlands Center Research Symposium*, April, **2016,** The Woodlands, TX.

19) Mendenhall, B.A., Holmes, S., Ross, J., Roy, R.J., Lowry, J., Crews S.R., Stephens, E., Chou, C.E., Kiss, L., Thompson, D.E., Petrikovics, I. Analytical Method Development to Determine the Cyanide Antidote (SDX) in Blood. *Woodlands Center Research Symposium,* April, **2016,** The Woodlands, TX.

20) Mendenhall, B., Holmes, S., Ross, R.J., Lowry, J., Cress, S.R., Stephen, E., Chou, C.E., Kiss, L., Thompson, D.E., Petrikovics, I. Optimization of an Analytical Method to Determine the KCN Antidote (CAX1) in Blood by HPLC. *American Chemical Society, SW Regional Meeting,* November, 2-6, **2015,** Memphis, TN.

21) Ross, J., Chou, C.E., Brown, D., Dong, X., Coronado, V., Mendenhall, B., Roy, J.R. Kiss, L., Thompson, D.E., Petrikovics, I. Method Development and Optimization for Detection of

a Novel Cyanide Antidote in Brain by GC-MS. *American Chemical Society, SW Regional Meeting,* November, 2-6, **2015,** Memphis, TN.

22) Dong, X., Barcza, T., Kiss, L., Roy, R.J., Petrikovics, I., Thompson, D.E. Effect of blood and an oxidation agent on a novel cyanide antidote. *American Chemical Society, SW Regional Meeting,* November, 2-6, **2015,** Memphis, TN.

23) Coronado, V., Kiss, L., Ross, J., Brown, D., Mendenhall, B., Lowry, J., Crews, S.R., Roy, R.J., Petrikovics, I. Testing the *in vivo* Efficacy and the Brain Partitioning of a New Cyanide Antidote*, COS Undergraduate Meeting, UTSA*, October, **2015,** San Antonio, TX.

24) Mendenhall, B., Holmes, S, Ross, J., Roy R.J., Lowry J., Crews, S.R., Stephens, E., Chou C.E., Kiss, L., Thompson, D.E., Petrikovics, I. Analytical Method Development for Measuring a Cyanide Antidote in Blood for Pharmacokinetics Study. *COS Undergraduate Meeting, UTSA*, October, **2015,** San Antonio, TX.

25) Crews, S.R., Lowry, J., Mendenhall, B., Kiss, L., Petrikovics, I. Analysis of a Cyanide Antidote in Blood and its Pharmacokinetic Profile by High Performance Liquid Chromatography. *COS Undergraduate Meeting, UTSA*, October, **2015,** San Antonio, TX.

26) Kiss, L., Holmes, S., Roy, R.J., Ross, J., Brown, D., Petrikovics, I. Determining the pH dependence of a new cyanide antidote (sulfur donor X) and its efficacy in oral formulations. *Graduate Research Presentation*, Feb, 18, **2015,** SHSU, Huntsville, TX.

27) Kiss, L., Holmes, S., Roy, R.J., Ross, J., Brown, D., Petrikovics, I. New cyanide antidote (sulfur donor X) and its pH dependence for oral formulation efficacy. *TAS Meeting*, March 6-8, **2015,** San Antonio, TX.

28) Shiffley, M., Stephens E., Lucio J., Lee, S.A., Miller, E.N, Petrikovics, I. Use of synthetic and garlic sulfur donors to treat cyanide intoxication. *SHSU Undergraduate Research Symposium*, April **2014**, Huntsville, TX.

29) Setien, K., Ross, J., Lucio, J., Brown, D., McDaniel, A. Stephens, E., Petrikovics, I., Holmes, S., Chou, C-E. Analytical Method Development for a Sulfur Donor Type Cyanide Antidote in Rat Blood and Brain by GS-MS. *American Chemical Society, SW Regional Meeting,* November 19-22, **2014,** Fort Worth, TX. (Poster#: SWRM-322)

30) Lee, S., Miller, E., Fisher, D., Royas, M., James, M., Petrikovics, I. The use of synthetic and garlic sulfur donors to treat cyanide intoxication. *ACS Regional Meeting,* November, **2013**, Waco, TX.

31) Wijesoorija, C., Kovacs, K., Budai, M., Petrikovics, I. Kinetic studies of betal-lactamase enzyme (E. Cloacae) on beta-lactam type antibiotics and beta-lactamase inhibitors. *ACS Regional Meeting*, November, **2013**, Waco, TX.

32) Rasheed S., Ismail, T., Kovacs, K., Barcza, T., Jane, M., Duke, A. Solubility Studies Using Co-Solvent System Combinations for a Poorly Water Soluble Drug. TAS Meeting, **2013,** Spring, TX.

33) Yu, J. C.C., Winner, B.M., Ancha, M., Adewodu, A., Rasheed, S., Kovacs, K., Petrikovics, I., Formulation studies on selected water insoluble sulfur donor used in fighting cyanide antagonism. *TAS Meeting,* March**, 2012,** Alpine**,** TX**.**

34) Angulakurthi, S.K., Ancha, M., Smith, M.A., Jane, M.A., Lee, S.A., Nwaneri, A.C., Kovacs, K., Petrikovics, I. Screening and Formulation of Selected Sulfur Compounds as Antidotes in Cyanide Toxicity. *TAS Meeting*, March **2012,** Alpine, TX.

35) Shifflet, M., Lee, S., Ancha, M., Angalakurthi, S., Jane, M., Nwaneri, A., Rashed, S., Kovacs, K., Petrikovics, I. Preclinical Drug Formulation and Animal Studies in Cyanide Antidote Development. *Fifth Annual Undergraduate Research Symposium*, April, **2012**, Huntsville, TX.

36) Coveyou, K., Angalakurthi, S., Kovacs, K., Petrikovics, I. HPLC. *Fifth Annual Undergraduate Research Symposium*, April, **2012,** Huntsville, TX.

37) Negrito, M., Winner, B., Nasr, J., Stafford, K., Kovacs, K., Petrikovics, I. Optimization of the Preparation of Micelles for Cyanide Antagonism. *Fifth Annual Undergraduate Research Symposium*, **2012,** April, Huntsville, TX.

38) Wijesooriya, C., Kovacs, K., Petrikovics, I. Kinetic studies of beta-lactamase enzymes on beta-lactam type antibiotics and beta-lactamase inhibitors. *TAS Meeting*, March, **2012,** Alpine, TX.

39) Angalakurthi, S.K, Coveyou, K., Kovacs, K., Petrikovics, I. Reversed-Phase HPLC Method Development for a Cyanide Antagonist Candidate, *ACS Regional Meeting,* November, **2012***,* Baton Rouge, TX.

40) Duke, A., Rasheed, S., Kovacs, K., Petrikovics, I. Solubility Enhancement for a Poorly Water Soluble Drug, *ACS Regional Meeting,* November, **2012***,* Baton Rouge, TX.

41) Wijesooriya, C., and Petrikovics, I. Liposomal encapsulation of ceftazidime for developing an eye-drop formulation, *ACS Regional Meeting,* November, **2012***,* Baton Rouge, TX.

42) Negrito, M., Winner, B., Rasheed, S., Kovacs, K., Petrikovics, I. Optimization of Micellar and Emulsion Type Formulations for Developing Cyanide Antidotes, *ACS Regional Meeting,* November, **2012***,* Baton Rouge, TX.

43) Winner, B.M., Nasr, J., Negrito, M., Rasheed, S., Ngo, P., Petrikovics, I. Micellar Encapsulation of Sulfur Donors to Combat Cyanide Antagonism. *ACS, 67th Southwest Regional Meeting*. November 9-12, **2011**, Austin, TX.

44) Ancha, M., Feleke, B., Kovacs, K., Petrikovics, I. Screening of Sulfur Donors for in vitro Thiocyanate Conversion Efficiency. ACS, *67th Southwest Regional Meeting*, November 9-12, **2011,** Austin, TX.

45) Negrito, M., Rasheed, S., Ngo, P., Herrera, D., Nagy, A., Kovacs, S, Ancha, M., Feleke, B., Petrikovics, I. Recombinant Human Rhodanese in Cyanide Antagonism. ACS, 67th Southwest Regional Meeting, November 9-12, **2011,** Austin, TX.

46) Nasr, J. and Petrikovics, I. Analytical Method Development for Measuring the Cyanide Metabolite, 2-Aminothiazoline-4-Carboxylic Acid, as a Biomarker for Cyanide Exposure in Mice Organ Samples by HPLC-MS/MS. *Texas Undergraduate Research Day at the Capitol*, February, **2011**, Austin, TX.

47) Kuzmicheva, G., Stambler, I., Strickland, M., Ngo, P., Jayanna, P., Wales, M.E., Petrikovics, I. Discovery of the phage borne peptides specifically recognizing Giardia lamblia cysts. *ACS, 66th Regional Meetin*g, November 30, **2010,** New Orleans, LA.

48) Stafford, K., Yu, J., Petrikovics, I. Development of a New Analytical Method for the Determination of the Biomarker, 2-Aminothiazoline-4-Carboxylic Acid (ATCA), in Mice after Cyanide Exposure. *3rd Annual Sam Houston State University Honors Undergraduate Research Symposium*. April 23, **2010**, Huntsville, TX.

49) Stafford, K. New Analytical Method Development for Determination of the Biomarker, 2-Aminothiazoline-4-Carboxylic Acid (ATCA), in Mice after Cyanide Exposure. Sam Houston State University College of Criminal Justice, *2nd Annual Undergraduate Conference.* April 21, **2010**, Huntsville, TX. (First Place Award)

50) Martin, S., Kuzmicheva, G., Jayanna, P., Wales, M., Petrikovics, I. Modeling Oral Administration of Organophosphorus Hydrolyzing Enzyme (OPH) Against Paraoxon Intoxication. *3rd Annual Sam Houston State University Honors Undergraduate Research Symposium.* April 23, **2010,** Huntsville, TX.

51) Stafford, K., Yu, J. C.C., Myagmarjav, B.E., Petrikovics, I. Sample Preparation Method Development for Determining the Biomarker, 2-Aminothiazoline-4-Carboxylic Acid (ATCA), from Mice Liver after Cyanide Exposure. *113th Annual Meeting of Texas Academy of Science,* March 4-6, **2010,** Tarleton State University at Stephenville, TX.

52) Martin, S., Kuzmicheva, G., Petrikovics, I. Study of Effectiveness of Rhodanese Encapsulation into Stealth Liposomes. *113th Annual Meeting of Texas Academy of Science,* March 4-6, **2010**, Tarleton State University at Stephenville, TX.

53) Stafford, K., Jackson, R., Simons, K., Yu, J.C.C., Petrikovics, I. Analytical Method Development for Determining the Biomarker, 2-Aminothiazoline-4-Carboxylic Acid (ATCA), in Mice Liver after Cyanide Exposure. *American Academy of Forensic Science,* March 7-11, **2010**, Seattle, WA.

54) Pipken, A., Petrikovics, I., Thompson, D.E. Tailoring a surface enhanced Raman Sensor for the detection of the cyanide metabolite, 2-aminothiazoline-4-carboxylic acid. *113th Annual Meeting of Texas Academy of Science,* March, 4-6, **2010**, Tarleton State University at Stephenville, TX.

55) Stafford, K., Jackson, R., Yu, J.C.C, Petrikovics, I. Analytical Method Development for Determining the Biomarker, 2-Aminothiazoline-4-Carboxylic Acid (ATCA), in Mice Liver After Cyanide Exposure. *ACS 65th Southwest Regional Meeting*, November 4-7, **2009**, El Paso, TX.

56) Martin, S., Kuzmicheva, G., Stafford K., Petrikovics, I. Determining the Optimal Condition for Rhodanese Incorporation into Liposomes. *ACS 65th Southwest Regional Meeting,* November 4-7, **2009**, El Paso, TX.

57) Childress, J., and Petrikovics, I. Determination of the Optimal Composition and Encapsulation Efficiency for Liposome Encapsulated Rhodanese. *11th Annual Meeting of Texas Academy of Science,* March 6-8, **2008**, Corpus Christie, TX.

58) Chapela, P., Wales, M.E., Budai, M., Petrikovics, I. Optimal Liposomal Composition for the Encapsulation of Organophosphorous Hydrolase (OPH). *11th Annual Meeting of Texas Academy of Science,* March 6-8, **2008,** Corpus Christie, TX.

59) Chapela, P., Petrikovics, I., Wales, M.E. Encapsulation of Organophosphate Hydrolase in Polylactic Acid Microspheres. *ACS Regional Meeting*, October, **2008**, Little Rock, Arkansas.

60) Childress, J., Budai, M., Rockwood, G.A. Baskin, S.I., Petrikovics, I. Determining the Time Stability for Stealth Liposomes Encapsulating Rhodanese and Evaluating the in Vitro Efficacy of Co-Encapsulation of Rhodanese with a Sulfur Donor. *ACS Regional Meeting*, October, **2008**, Little Rock, Arkansas.

61) Farrar, J., Chapela, P., Petrikovics, I. Activity and Stability of Encapsulated Acetylcholinesterase. *ACS Regional Meeting*, October, **2008**, Little Rock, Arkansas.

62) Spurlin, J., Chapela, P., Petrikovics, I., Yu, J.C.C. Encapsulation Efficiency of Organophosphorous Hydrolase in Lecithin Liposomes as Determined by Capillary Electrophoresis, *ACS Regional Meeting*, October, **2008**, Little Rock, Arkansas.

63) Ramirez, D.A., Chapela, P., Petrikovics, I. Encapsulation of Piroxicam in Liposomes. *ACS Regional Meeting*, October, **2008**, Little Rock, Arkansas.

64) Chapela, P., Budai, M., Petrikovics, I. Liposomal Encapsulation of Tetracycline Derivatives. *ACS Southwestern Regional Meeting,* November 4-7, **2007,** Lubbock, TX. (Poster #: 50514)

Recognitions/Honors and Awards/Nominations/Membership (2007- 2016)

Recognitions (National, Regional and SHSU)

- Interviewed for articles reporting on my toxicology research at SHSU and my contributions to students at SHSU: The Houstonian, **2010**; Today @ SAM (**Jan. 2010**); Grant Scope **2010**; Today @ Sam (Sept, **2013**); Interview about the CN research (You tube), **2014**.

Honors and Awards / Nominations (National and SHSU)

Awards:

- College of Sciences Faculty Excellence in Research Award at Sam Houston State University (**2013**)
- SHSU Faculty Excellence in Scholarly and Creative Accomplishment Award, (**2013**)
- Sponsored Research Award Recipient (SHSU, ORSP) (**2013**)

Nominations:

- SHSU Mentor Award (**2010** and **2011**)
- SHSU Research Award (**2011** and **2012**)
- Society of Toxicology National Mentor Award (**2012 and 2015)**

External Funding (SHSU, 2006-2014) (Completed)

1) *"**Catalytic Bio-Scavengers with Broad Specificity Against OP Nerve Agents**"*
NIH Funding, 5 UG1 NS058035-02. Principal Investigator: Wild, James, R. (TAMU)
10/01/06 – 09/30/11, $1,710,206.

- Sub-Award with TAMU-SHSU (2007-2011), Principal Investigator at SHSU: Dr. Ilona Petrikovics. Sub-Award#: 570376. Type: Contract. Total: **$400,861.**

2) *"**Investigation of Next Generation Cyanide Antidotes**"*
Project Leader at the Army: Dr. Gary Rockwood, Principal Investigator at SHSU: Dr. Ilona Petrikovics, Type: Contract

- NIH: NIAID/USAMRICD Interagency Agreements (W911NF-07-D-0001), USAMRICD under the auspices of the US Army Research Office Scientific Services Program administered by Battelle (Delivery order 0557, Contract No TCN 08284). (SHSU-22023)
    - Y1: (Sept1, 2008-Aug 31, 2009): **$191,712**
    - Y2: (Sept1, 2009-Aug 31, 2010): **$208,305**
- NIH: NIAID/USAMRICD Interagency Agreements (W911NF-07-D-0001), USAMRICD under the auspices of the US Army Research Office Scientific Services Program administered by ORISE. (SHSU-28023)
    - Y1: (Sept 1, 2010-Aug 31, 2011): **$218,682**
- NIH: NIAID/USAMRICD Interagency Agreements (W911NF-07-D-0001), USAMRICD under the auspices of the US Army Research Office Scientific Services Program administered by Battelle (Delivery order 0557, Contract No TCN-11-078). (SHSU-28031).
    - Y1: (Sept 1, 2011-Aug 31, 2012): **$237,844**
- CounterACT Program, National Institutes of Health Office of the Director, and the National Institute of Allergy and Infectious Diseases, Inter Agency Agreement Number Y1-OD-1561-01/A120-B. P2011-01, and the USAMRICD under the auspices of the US Army Research Office of Scientific Services Program Contract No. W911NF-11-D-0001.
    - Y1: (Sept 1, 2012-Aug 31, 2013): **$219,680** (SHSU-22064)
    - Y2: (Sept 28, 2013-Sept 27, 2014): **$195,434** (SHSU220641-203751-20)

External Funding (SHSU, 2014-2016) (Completed)

1) NIH-NIAID/USAMRICD-IAA-1 Program. "***Efficacy Testing of Next Generation Cyanide Antidotes; Preclinical Development of Novel Cyanide Medical Countermeasures***" Principal Investigator at ICD: Dr. Gary Rockwood; at SHSU: Dr. Ilona Petrikovics; at SDSU: Dr. Brian Logue
    - Y1: $836,018 (2014-2015)
    - Y2: $876,206 (2015-2016)

- NIH-NIAID/ USAMRICD-IAA-1 Program: (SHSU Subcontract with ICD)**. "*Investigations on Advanced Formulated Cyanide Antidotes; Blood Brain Barrier (BBB) Penetration; Brain Targeting*"**

Principal Investigator: Dr. Ilona Petrikovics
Co-PI: Dr. David Thompson

- Y1: (Sept1, 2014-Aug 31, 2015): **$176,530 (**SHSU 220860-203751-20)
- Y2: (Sept1, 2015-Aug 31, 2016): **$193,631 (**SHSU 220861-203751-20)

External Funding (SHSU, 2016-2018) (Present)

- NIH-NIAID/ USAMRICD-IAA-1 Program: (SHSU Subcontract with ICD)**. "*Preclinical Development Studies with Cyanide Countermeasures: Brain Targeting Investigations*."**
  Principal Investigator: Dr. Ilona Petrikovics
  Co-PI: Dr. David Thompson
  - Y1: (Sept1, 2016-Aug 31, 2017): **$235,649 (awarded)**
  - Y2: (Sept1, 2017-Aug 31, 2018): **$239,025 (awarded)**

External Funding (SHSU, 2018-2020) (Pending)

- NIH-NIAID/ USAMRICD-IAA-1 Program: (SHSU Subcontract with ICD)**. *"In Vitro and In Vivo Investigation of New Generation Formulations for the Cyanide (CN) Antidote Dimethyl Trisulfide (DMTS) with Enhanced Bioavailability."***
  Principal Investigator: Dr. Ilona Petrikovics
  Co-PI: Dr. David Thompson
  - Y1: (Sept1, 2018-Aug 31, 2019): **$241,908 (pending)**
  - Y2: (Sept.1, 2019-Aug 31, 2020): **$243,245 (pending)**

Total to SHSU since 2007: $2,517,353 (awarded) plus $485,153 (pending); (total of $3,002,506)

Research Collaborations

National Level Collaborations

- Dr. James Wild and Dr. Melinda Wales (Texas A&M University, Department of Biochemistry, Biophysics) (OP Antagonism)
- Dr. Brian Logue (South Dakota State University) (Cyanide Antagonism)
- Dr. Gary Rockwood (Cyanide research), Dr. Dougles Cerazoli (OP Antagonism) (U.S. Army Medical Research Institute of Chemical Defense).
- Dr. Gerry Boss (University of California, San Diego) (Cyanide Antagonism)
- Dr. Steven Patterson (University of Minnesota) (Cyanide Antagonism)
- Dr. Randall Peterson (Harvard University) (Cyanide Antagonism)

- Dr. Matthew Brenner (University of California, Irvine) (Cyanide Antagonism)

International Level Collaborations

- Dr. Marianna Budai, Dr. Kristof Kovacs and Dr. Imre Klebovich (Semmelweis Medical University, Hungary, Europe)
- Dr. Piroska Revesz and Dr. Peter Sipos (Faculty of Medicine, Department of Pharmaceutical Formulation Technology, University of Szeged, Hungary, Europe)
- Dr. Deli Maria **(**Biological Research Institute of Biophysics, Department of Molecular Neurobiology, Szeged, Hungary, Europe)
- Professor Csaba Jaszberenyi (Technical University of Budapest, Hungary, Europe)

Institutional Level of Collaborations

- Dr. Donovan Haines (Chem. Dept., Co-PI, Army Grant, 2011-2012)
- Dr. David Thompson (Chem. Dept., Co-PI, Army Grant, 2010-2012; 2012-2014) (2014-2016)
- Dr. Jorn Yu (College of Criminal Justice, Co-Investigator, 2011-2012)

Service

Scientific Services (National, International)

- Editorial Board Member for "World Journal of Methodology" (**2011-2015**), and (**2016-2019**)
- Scientific Advisor for Battelle, Contract Lab. (**2013**)
- Serving as a Reviewer for Grant Proposals / Scientific Journal Reviewer (**2007-Present**)

Scientific Society Membership

- Full Member of the American Society of Toxicology; Also Member of the Nanotoxicology Sub-Section (**1992-2002**), and (**2007-Present**)
- American Chemical Society (**2009-Present**)

Committee Membership (SHSU)

- SHSU IUCAC Committee Member (**2011-2015; 2016-Present**)
- SHSU New Animal Facility Committee Member (**2012-2013**)
- SHSU College of Science Awards and Recognition Committee (**2013-2015; 2016-Present**)
- SHSU Distinguished Professor Review Committee (**2014-Present**)

Facility Development / Emergency Service

- Developed animal facility in CFS Building for Toxicology Research Purposes (Worked on it for two years, it was ready by **2010**)

- Federal Emergency Management Agency (FEMA) Emergency Contact Person (**2013-2015)**

Recruitment

- Recruiting, periodically interviewing for positions such as Research Faculties, Post-doctoral Research Associates, Research technicians; Setting up job announcement with SHSU HR Department. (**Continuously as needed**)

Other Services (SHSU)

- Regular participating in various departmental service activities; DPTC; Gibbs/Farrington Committees

- Mentoring, advising, training (animal training course) and supervising students (employed/paid, volunteered and research class participants) in my research lab over the regular university requirement level (12-14 students each semester) **(2008-Present)**

- Setting up SHSU *Summer Toxicology Research Scholarships* (**2014**: James Ross)

- Service for International Office at SHSU:

    - Panel Presentation/discussion on "International Crossing and Cultural Navigations: Teaching to live, integrate, and balance life in the US. (SHSU International week, April, **2009**)
    - Panel Presentation on Adaptation to the US Culture (SHSU International Week, April **2010**)
    - Participation in the International Student Exchange Program: Hosting a Japanese student, Ayaka Tainuchi, from Momoyama Gakuin University, Japan, in my house for a month (April, **2011**)
    - Participating in the International Office's Transportation Program (Transporting students from and to the IAH Airport; helping them to settle down in Huntsville after arrival (**2008-2012**)

- Community Services at SHSU:

    - Hosting students (their parents), visiting scientists, visiting scholars, Ph.D. student in my house for shorter-longer time (***continuously, as needed***)
    - Helping international students, visiting scholars in the department with setting up household, furniture, car, shopping, transportation (***continuously as needed***)