**SEEMA DWIVEDI**

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**EDUCATION**

University of Lucknow, India 2002 Ph.D. – Biochemistry

University of Lucknow, India 1996 Masters – Biochemistry

University of Lucknow, India 1994 Bachelors – Botany, Chemistry, Zoology

**CERTIFICATION**

Chemistry 7 – 12

Life Science 7 – 12

TL1620 HCC Online Learning Certificate

**PROFESSIONAL EXPERIENCES**

1. Presently teaching at HCC (Adjunct faculty Professor, Department of Biology, Houston Community College 2021 Spring)

Microbiology for Health Science, Lecture and Lab, Fall 2021

Anatomy and Physiology I (Lab) Spring 2101

Anatomy and Physiology II (Lab) Spring 2102

Microbiology 2320

1. Taught Biology in HISD (Furr High School) from December 2016 – August 2018.
2. Research Fellow, Indian Council of Medical Research (ICMR), at Industrial Toxicology Research Center (ITRC), Lucknow, India. 1997-1999.
3. Post-doctoral fellow at Department of Pathology, University of Texas Medical Branch (UTMB), Galveston, Texas, USA. August 2002 – March 2006.
4. Post-doctoral fellow at Department of Biochemistry and Molecular Biology, University of Texas Medical Branch (UTMB), Galveston, Texas, USA. April 2006 – December 2007.
5. Post-doctoral fellow at Department of Pathology, University of Texas Medical Branch (UTMB), Galveston, Texas, USA. January 2008 – 2009.

**Training Attended**

* Attended AFT Meeting ( Positive School Climate & Discipline) January 26th – 29th in New York
* Attended MIT Summer Colloquium Boston 6th July to 12th July 2017

**Software Experience**

• Proficiency in Microsoft office software such as Microsoft Word, Excel, and PowerPoint.

• Proficient in using education software tools Canvas, WebEx, McGraw Connect, Pearson

Mastering Biology, Blackboard/ Web CT for students.

• Proficient in using Biochemistry computer molecular modeling software such as J-mol.

**Publications in peer- reviewed journals:**

1. Sharma R, Sharma A, **Dwivedi S**, Zimniak P, Awasthi S, Awasthi YC. 4 - Hhydroxynonenal self-limits fas - mediated DISC – independent apoptosis by promoting export of Daxx from the nucleus to the cytosol and its binding to Fas. Biochemistry. 2008 Jan 8; 47(1):143-56.
2. Awasthi YC, Sharma R, Yadav S, **Dwivedi S**, Sharma A, Awasthi S. The Non – ABC DrugTransporter RLIP76 (RALBP-1) Plays a Major Role in the Mechanisms of Drug Resistance. Curr Drug Metab.2007 May 1; 67(9):4382-9.
3. Singhal SS, Singhal J, Yadav S, **Dwivedi S**, Boor PJ, Awasthi YC, Awasthi S. Regression of lung and colon cancer xenografts by depleting or inhibiting RLIP76 (Ral – binding protein 1). Cancer Res.2007 May 1; 67(9): 67(9):4382-9.
4. **Dwivedi S**, Sharma A, Patrick B, Sharma R, Awasthi YC. Role of 4 – hydroxynonenal and its metabolites in signaling. Redox Rep. 2007; 12(1):4-10.
5. Wang L, Yang Y, **Dwivedi S**, Xu Y, Chu ET, Li J, Fitchett K, Boor PJ. Manipulating glutathione-S-transferases may prevent the development of tolerance to nitroglycerin. Cardiovasc Toxicol. 2006; 6(2):131-44.
6. Li J, Sharma R, Patrick B, Sharma A, Jeyabal PV, Reddy PM, Saini MK, **Dwivedi S**, Dhanani S, Ansari NH, Zimniak P, Awasthi S, Awasthi YC. Regulation of CD95 (Fas) expression and Fas – mediated apoptotic signaling in HLE B-3 cells by 4 – hydroxynonenal. Biochemistry. 2006 Oct 10; 45(40):12253-64.
7. **Dwivedi S**, Sharma R, Sharma A, Zimniak P, Ceci JD, Awasthi YC, Boor PJ. The course of CCl4 induced hepatotoxicity is altered in MGSTA4-4 null (-\-) mice. Toxicology, 2006 Jan 20; 218(1):58-66. Epub 2005 Dec 1.
8. Awasthi S, Singhal SS, Yadav S, Singhal J, Drake K, Nadkar A, Zajac E, Wickramarachchi D, Rowe N, Yacoub A, Boor PJ, **Dwivedi S**, Dent P, Jarman WE, John B, Awasthi YC. RLIP76 is a major determinant of radiation sensitivity. Cancer Res. 2005 JUL 15; 65(14):6022-8.
9. Sharma R, Yang Y, Sharma A, **Dwivedi S**, Popov VL, Boor PJ, Singhal SS, Awasthi S, Awasthi YC. Mechanisms and physiological significance of the transport of the glutathione conjugate of 4 – hydroxynonenal in human lens epithelial cells. Invest Ophthalmol Vis Sci, 2003 Aug: 44(8):3438-49.

**Papers Presented in national and international meetings:**

1. Yang Y, Sharma A, Sharma R, Saini MK, **Dwivedi S**, Awasthi S, Awasthi YC. Role of 4 – hydroxynonenal in UVA mediated signaling for apoptosis. Presented at Experimental Biology annual meeting, San Diego, CA, April 11-15, 2003. FASEB J 17: A1318.
2. **Seema Dwivedi**, Rajendra Sharma, Abha Sharma, Pitor Zimniak, Yogesh C Awasthi, Paul J Boor. The course of CCl4 induced hepatotoxicity is altered in MGSTA4-4 null (-\-) mice. Presented at Society of Toxicology, 43rd Annual Meeting and Toxexpo TM, Baltimore, March 21-25, 2004.
3. **Seema Dwivedi**, Yongzhen Yang, Yogesh C Awasthi, Paul J Boor. GSTA4-4 transfection enhances resistance to oxidative stress and activation of growth factors in hFLTR smooth muscle cells. Presented at 11th Annual Department of Pathology Meeting, Galveston, Texas, May 3, 2005.
4. Etem Chu, Yongzhen Yang, Liansheng Wang, **Seema Dwivedi**, Ya Xu, Paul J Boor. Possible role of Glutathione-S-Transferase A4-4 in human smooth muscle cell tolerance to nitroglycerin. Presented at 2005 MSSRP Research Poster Session, Galveston, Texas, June 23rd 2005.
5. **Seema Trivedi**, M Anand and P. K. Seth. Cardio toxic potential in rats with prolonged administration of gamma- HCH. Presented at Annual Conference of Indian Pharmacological Society, Lucknow, December 1998.
6. **Seema Trivedi**, M Anand, A. K. Agarwal. Role of calcium in the cardiovascular toxicity on prolonged administration of gamma-HCH. Presented at Annual Conference of Indian Pharmacological Society, Lucknow, December 1999.