Jim Lawrence
CURRICULUM VITAE

Jim Lawrence
Assistant Professor of Chemistry
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University of Wisconsin – Stevens Point
Stevens Point, WI 54481

EDUCATION

1995 Ph.D. Purdue University Biochemistry and Molecular Biology

1988 B.S. Bemidji State University Chemistry

PROFESSIONAL EXPERIENCE

2006- ASSISTANT PROFESSOR OF CHEMISTRY UW-STEVENS POINT.

1999-05 RESEARCH MANAGER – PROTEOMICS PIONEER HI-BRED, INTL.

1998-99 SENIOR RESEARCH FELLOW BIOMEDICAL MASS SPECTROMETRY FACILITY, MAYO FOUNDATION

1995-98 RESEARCH FELLOW ENDOCRINE RESEARCH UNIT, MAYO FOUNDATION

1988-95 GRADUATE RESEARCH ASSISTANT PURDUE UNIVERSITY

TEACHING EXPERIENCE

2007-Present CHEMISTRY 260 BIOCHEMISTRY UWSP
2006-Present CHEMISTRY 105 GENERAL CHEMISTRY UWSP
1997-98 MOLECULAR BIOLOGY 5000 MAYO GRADUATE SCHOOL
1992 BIOCHEMISTRY 209 PURDUE UNIVERSITY

AWARDS AND GRANTS

2008 **NATIONAL INSTITUTES OF HEALTH AREA (R15) AWARD (HD059095-01)**
2008 **UWSP UPDC FACULTY GRANT**
2007 **UWSP COLLEGE OF LETTERS AND SCIENCE SUMMER GRANT WRITING STIPEND**
1997 **EAGLES CANCER RESEARCH GRANT**
1996 **BREAST CANCER RESEARCH PILOT PROJECT GRANT**
1995-98 **NATIONAL INSTITUTES OF HEALTH POSTDOCTORAL FELLOWSHIP (DK-07352)**
1993 **A. H. ISMAIL INTERDISCIPLINARY PROGRAM DOCTORAL RESEARCH AWARD**
1988 **NATIONAL RESEARCH SERVICE AWARD (5T32GM7211)**
1993 **A. H. ISMAIL INTERDISCIPLINARY PROGRAM DOCTORAL RESEARCH AWARD**

ADDITIONAL GRANTS WRITTEN

2009 **NATIONAL SCIENCE FOUNDATION MAJOR RESEARCH INSTRUMENTATION GRANT**

PUBLICATIONS

1. Rodriguez M, Moreau P, Paulik M, **Lawrence J**, Morré DJ, Morre DM: NADH-activated cell-free transfer between Golgi apparatus and plasma membranes of rat liver. Biochim Biophys Acta 1107:131-138, 1992.

2. Bruno M, Brightman A, **Lawrence J**, Werderitsh D, Morré DM, Morré DJ: Stimulation of NADH oxidase activity from rat liver plasma membranes by growth factors and hormones is decreased or absent with hepatoma plasma membranes. Biochem J 284:625-628, 1992.

3. Morré DJ, Davidson M, Geilen C, **Lawrence J**, Flesher G, Crowe R, Crane F: NADH oxidase activity of rat liver plasma membrane activated by guanine nucleotides. Biochem J 292:647-653, 1993.

4. **Lawrence J**, Keenan T, Morré DJ: Acyl transferase reactions associated with cis Golgi apparatus of rat liver. In: Morre DJ, Howell K, Bergeron JJM (eds), Molecular Mechanisms of Membrane Traffic. Springer-Verlag, Heidelberg-New York, pp. 67-68, 1993.

5. Brightman A, Paulik M, **Lawrence J**, Reust T, Geilen C, Spicker K, Reutter W, Morré DM, Morré DJ: A 38 kDa protein resident to cis Golgi apparatus cisternae of rat liver is recognized by an antibody directed against (subunits of trimeric G-proteins. In: MorrÈ DJ, Howell K, Bergeron JJM (eds), Molecular Mechanisms of Membrane Traffic. Springer-Verlag, Heidelberg-New York, pp. 65-66, 1993.

6. **Lawrence J**, Moreau P, Cassagne C, Morré DJ: Acyl transfer reactions associated with cis Golgi apparatus of rat liver. Biochem Biophys Acta 1210:146-150, 1994.

7. Morré DJ**, Lawrence J**, Safranski K, Hammond T, Morré DM: Experimental basis for separation of membrane vesicles by preparative free-flow electrophoresis. J Chromatography A. 668:201-313, 1994.

8. Morré DJ, Paulik M, **Lawrence J**, Morré DM: Inhibition of NADH oxidase activity of rat liver Golgi apparatus by brefeldin A accelerated by GDP. FEBS Letters 346:199-202, 1994.

9. Morré DJ, Navas P, Rodriguez-Aguilera J-C, Morre DM, Villalba JM, de Cabo R, **Lawrence J**: Cyclic AMP- plus ATP-dependent modulation of the NADH oxidase activity of porcine liver plasma membranes. Biochem Biophys Acta 1224:566-74,1994.

10. Sun E, **Lawrence J**, Morré DM, Sun I, Crane F, MacKellar W, Morré DJ: Proton release from Hela cells and alkalization of cytoplasm induced by diferric transferin or ferricyanide and its inhibition by the diarylsulfonylurea antitumor drun N-(4-methylphenylsulfonyl)-Ní-(4-chlorophenyl) urea (LY181984). Biochemical Pharmacology 50:1461-8, 1995

11. Morré DJ, Wilkinson F, **Lawrence J**, Cho N, Paulik M. Identification of antitumor sulfonylurea binding proteins of Hela Plasma Membranes. Biochim. Biophys. Acta 1236:237-43, 1995.

12. **Lawrence J**, Geilen C, Flesher G, Reutter W, Spicher G, Morré DJ: The stimulation of NADH oxidase activity of rat liver plasma membranes by guanine nucleotides may involve both guanine nucleotide-binding proteins of the plasma membrane and responses not mediated by classic heterotrimeric G proteins. Protoplasma 184:118-123, 1995.

13. Morré DJ, Wilkinson F, Kim C, Cho N, **Lawrence J**, Morre DM, McClure D. Antitumor sulfonylurea-inhibited NADH oxidase of cultured HeLa cells shed into media. Biochim. Biophys. Acta 1280:197-206, 1996.

14. **Lawrence J**, Conover C, Haddad T, Ingle J, Reid J, Ames M, Suman V, Marks R, Hartmann L. Evaluation of continuous infusion of suramin in metastatic breast cancer: Impact on plasma levels of insulin-like growth factors and insulin-like growth factor binding proteins. Clinical Cancer Res. 3:1713-20, 1997.

15. Morré DJ, Morré JT, **Lawrence J**, and Moini M. Activity of triclopyr herbacide enhanced by combination with cobalt chloride or ammonium nitrate. J. Plant Growth Regulation. 17:125-129, 1998.

16. **Lawrence J**, Bale L, Haddad T, Clarkson J, and Conover C. Characterization and partial purification of the insulin-like growth factor (IGF)-dependent IGF binding protein-4-specific protease from human fibroblast conditioned media. Growth Hormone and IGF Res. 9:25-34, 1999.

17. **Lawrence J**, Oxvig C, Overgaard M, Sottrup-Jensen L, Gleich G, Hays L, Yates J, and Conover C. The Insulin-Like Growth Factor (IGF)-Dependent IGF Binding Protein-4 Protease Secreted by Human Fibroblasts is Pregnancy Associated Plasma Protein-A. Proc. Natl. Acad. Sci. 96:3149–3153, 1999.

18. Overgaard MT, Oxvig C, Christiansen M, **Lawrence J**, Conover CA, Gleich GJ, Sottrup-Jensen L, Haaning J. Messenger ribonucleic acid levels of pregnancy-associated plasma protein-A and the proform of eosinophil major basic protein: expression in human reproductive and nonreproductive tissues. Biol. Reprod. Oct:61(4): 1083-1089, 1999.