

CURRICULUM VITAE

Tayebeh Pourmotabbed, Ph.D.
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University of Tennessee Health Science Center
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EDUCATION:

Undergraduate: College of Notre Dame of Maryland, Jan. 1978 - Jan. 1981;
B.A. with honors in Chemistry, June 1981
Graduate School: University of Maryland Baltimore County, Jan. 1981-June
1986; Ph.D. in Biochemistry, June 1986
Postgraduate Training: University of Maryland College Park, Department of
Biochemistry, July 1986 - June 1988

HONORS:

- Phi lambda epsilon, Johns Hopkins University, National Honor Society
- B.A. with honors in Chemistry - Cum laude, College of Notre Dame of Maryland
- Dean's list, 1978-1981, College of Notre Dame of Maryland
- International Who's who of professionals, 1999
- Arthritis investigator award 1991-1994
- NIH First Award, 1993-1997
- Who's who in Science and Engineering, 2000-2003
- Who's who of American Woman, 2000-2010
- University of Maryland Distinguished Alumnus of the Year Award, 2000
- Cambridge Distinguished International Scientist of the Year Award, 2002-2004
- Manchester Who's Who among executives and professionals, 2003-2006
- Chair, Faculty Senate Research Committee 2007- 2012
- Senator of the year award, 2008-2009
- Senator of the year award, 2011-2012

EDITORIAL BOARD:

- Member, Reviewer Board of the Journal of Pediatric Biochemistry
- International Journal of Behavior
- Journal of Cancer research and Therapy (JCRT)
- Gene Technology

SOCIETY MEMBERSHIPS:

- American College of Rheumatology
- New York Academy of Sciences
- American Chemical Society
- Biological Chemistry Division of American Chemical Society
- American Society for Biochemistry and Molecular Biology
- American Association for Advancement in Science

UNIVERSITY APPOINTMENTS:

July 2006 -	Professor, MIB department, University of TN, Health Science Center
July 2007-	Adjunct Professor, Department of Neurosurgery, University of Tennessee Health Science Center
July 2002 – June 2007	Adjunct Associate Professor, Department of Neurosurgery, University of Tennessee Health Science Center
July 1998 - June 2006	Associate Professor, Department of Molecular Sciences, University of Tennessee Health Science Center
Jan. 1993 - July 1998	Assistant Professor, Department of Biochemistry, University of Tennessee, Memphis
Sept. 1989 - Dec. 1992	Assistant Professor, Department of Medicine, University of TN, Memphis
July 1986 - June 1988	Postdoctoral Research Associate, Biochemistry Department, University of Maryland College Park
Sept. 1986 - June 1988	Supervisor of Advanced Undergraduate Research, University of Maryland College Park
Jan. 1985 - June 1985	Assistant Lecturer, General Chemistry, University of Maryland Baltimore County, Baltimore, MD
Jan. 1987 - June 1987	Instructor, Organic Chemistry, Howard Community College, Columbia, MD
Sept. 1982 - June 1986	Graduate Research Assistant, Department of Chemistry, University of Maryland Baltimore County, Baltimore, MD
July 1981 - Jan. 1986	Graduate Teaching Assistant, Undergraduate Organic Chemistry Lab, University of Maryland Baltimore County, Baltimore, MD

TEACHING EXPERIENCE:

IN MARYLAND, 1981-1987

July 1981 - Jan. 1986	Undergraduate Organic Lab, University of Maryland
Jan. 1985 - June 1985	General Chemistry, University of Maryland
Jan. 1987 - June 1987	Organic Chemistry, Howard Community College

UNIVERSITY OF TENNESSEE, 1990-PRESENT

1990 - 2000	Biochemistry 926: Proteins and Enzymes
1990 – 1994	Department of Medicine, Proteinases for Rheumatology Fellows
1993 – 1994	Course director, Biochemistry 919
1993 - 1995	Biochemistry 826: Cell Biology
1995 - 2000	Biochemistry 811: General Biochemistry
1997 - 1998	Course director, Biochemistry 926
2001 - 2002	Medical Biochemistry and case studies
2001 - 2008	MSCI 811: General Biochemistry
2002	Cell & Molecular Biology
2003 –2010	Molecular Basis of Disease
2003 - 2009	Molecular Basis of Disease, case studies

2003	MSCI 840, Independent Study Enzymes & Proteins
2004 - 2006	Journal club, IP Graduate Students
2005	Path 834, Journal Club
2008-	Dental Biochemistry; Dental school UTHSC
2008-	IP806 Biochemistry
2010-	COM1012, Molecular Basis of Normal Body Function

VISITING PROFESSORSHIP AND INVITED LECTURES (NATIONAL AND INTERNATIONAL):

August 1992	University of Maryland Baltimore County, Baltimore, MD
Dec. 1992	University of Tennessee, Memphis, Biochemistry Department
Dec. 1992	Miles Research Center, West Haven, CT
Nov. 1994	Lehrstuhl für Biochemie, Universität Bielefeld, Germany
July - Dec. 1995	Visiting Professor, Department of Pediatrics, University of Washington, Seattle, WA
May 1995	University of Maryland Baltimore County, Baltimore, MD
Nov. 1995	Orthopedic Department, University of Washington, Seattle, WA
June 1996	ASBMB Meeting, Poster discussion #1, Boston, MA
June 1996	ASBMB Meeting, Poster discussion #2, Boston, MA
April 1997	University of Tennessee, Memphis, Department of Pharmacology
Dec. 1998	University of Tennessee, Memphis, Biochemistry Department
Feb. 2000	Ontogen Carlsbad, CA
August 2003	Matrix Metalloproteases Gordon Research Conference, Montana
Oct. 2003	University of Tennessee Health Science Center, Department of Medicine Grand Rounds
Oct. 2003	University of Tennessee Health Science Center, Department of Pharmacology
Dec. 2005	University of Tennessee Health Science Center, Department of Physiology
Dec. 2005	University of Tennessee Health Science Center, Department of Molecular Sciences
August 2006	Fifth Annual International Neuro-Oncology Updates in Memphis
Nov. 2007	University of Texas at San Antonio, Department of Chemistry
	University of Tennessee Health Science Center, Department of Molecular Sciences
May 2010	Tennessee Innovation Conference, Nashville, TN
August 2010	Matrix Metalloproteases Gordon Research Conference, Rhode Island

COMMITTEES AND OFFICES HELD:

DEPARTMENTAL COMMITTEES

1991-2001	Graduate Committee, University of Tennessee, Memphis, Biochemistry Department
1993- 1994	Course director of Biochemistry 919
1993 -1996	Biochemistry 926 (Proteins and Enzymes) Course Committee
1993 -1995	Biochemistry 826 (Cell Biology) Course Committee
1994 -2001	Graduate Committee, University of Tennessee, Memphis, Microbiology Department
1995-1998	Biochemistry 811 (General Biochemistry) Course Committee
1996 - 2001	Biochemistry Graduate Student Qualifying Exam Committee
1996 -1997	Biochemistry Graduate Admission and Recruitment Committee
1996 -1997	Biochemistry Faculty Search Committee
1996 -1998	Graduate Student Evaluation Committee
1997 -1998	Course director, Biochemistry 926 (Proteins and Enzymes)
1997 -2001	Graduate Student Curriculum Committee
1998 -1999	Task Force, devising a new strategy for Biochemistry Qualifying Exam
1999 -2001	Biochemistry Tenure and Promotion Committee
1999 -2000	Task Force, Designing Biochemistry Biotechniques Course, in collaboration with Structural Biology Department at St. Jude Children's Research Hospital
1999 – 2001	Graduate Committee, University of Tennessee, Memphis, College of Pharmacy

In year 2000 the Biochemistry Department and Department of Microbiology and Immunology were merged to form the Department of Molecular Sciences

2001- 2004	Molecular Sciences Graduate Admission and Recruitment Committee
2001- Present	Molecular Sciences Progress and Promotion Committee
2001 - 2003	Molecular Sciences Advisory Committee on the Interdisciplinary Program
2001 - 2003	Molecular Sciences Curriculum Committee
2001 - 2005	Graduate Student Qualifying Exam Committee
2001- 2006	Graduate Committee, University of Tennessee, Memphis, Department of Molecular Sciences
2001- 2004	Graduate Committee, University of Tennessee, Memphis, College of Pharmacy
2004 - 2005	Interdisciplinary Program Curriculum Committee
2006-	Graduate Committee, University of Tennessee, Memphis, IPBS program
2006 -	Molecular Sciences Seminar Committee
2012-	Chair, Molecular Sciences Seminar Committee

GRADUATE STUDENT COMMITTEES

1993 - 1996	Chun Hui Bu, University of Tennessee, Memphis, (Tayebeh Pourmotabbed, Major Professor), Ph.D. Awarded 1996
1994 - 2000	Thomas O'Farrell, Department of Biochemistry, (Tayebeh Pourmotabbed, Major Professor), Ph.D. Awarded 2000
1993 - 1994	Marilyn Whittemore, Department of Chemistry, Memphis State University, (Peter Bridson/ Tayebeh Pourmotabbed, Major Professors), M.S. Awarded 1994
1991 - 1994	Chitra Ganapathy, Department of Biochemistry, (Raj Raghov, Major Professor), Ph.D. Awarded 1995
1991 - 1995	Madhavan, Department of Biochemistry, (Harry Jarrett, Major Professor), Ph.D. Awarded 1996
1994 - 1999	Shannon L. Miller Department of Microbiology, (Dennis Ohman, Major Professor), Ph.D. Awarded 1999
1995 - 2000	Jean Karl Gustin, Department of Microbiology, (Dennis Ohman, Major Professor), Ph.D. Awarded 2000
1996 - 2001	Luis Jurado, Department of Biochemistry, (Harry Jarrett, Major Professor), Ph.D. Awarded 2001
1997 - 2002	Shilpa Oak, Department of Biochemistry, (Harry Jarrett, Major Professor), Ph.D. Awarded 2002
1999 - 2004	Ji Han, Medicinal Chemistry in the College of Pharmacy, (Isaac Donkor, Major Professor), Ph.D. awarded 2004
1999 - 2003	Marion Lee Sanders, Medicinal Chemistry in the College of Pharmacy, (Isaac Donkor, Major Professor), Ph.D. awarded 2003
1999 - 2004	Tongyuan Li, Department of Molecular Sciences, (The late Vincent Kidd, Major Professor), Ph.D. awarded 2005
1998 - 2006	Robert Moxley, Department of Molecular Sciences, (Harry Jarrett, Major Professor), awarded Ph.D. Posthumous 2006
2003 - 2006	Chad Batson, Department of Molecular Sciences, (Tayebeh Pourmotabbed, Major Professor), Awarded M.D., Ph.D. Posthumous 2006
2005-2009	Shay Carter (Len Lothstein, Major Professor). Department of Pharmacology and Pharmaceutical Sciences (withdrew from program)
2007-2011	Miranda Hallett (Tayebeh Pourmotabbed, Major Professor), Department of Molecular Sciences, Ph.D. awarded 2011
2007-2013	Erika Dillard (Mike Whitt, Major Professor), Department of Molecular Sciences

UNIVERSITY COMMITTEES

1994 - 1995	Oral Cancer Research Center
1994 - 1995	Search Committee for the Molecular Biology position in the Endocrinology Department
1995 - 1999	Memphis McNair Program
1995 - 1999	Dental Research Committee
1995 - 2000	UT Cancer Group
1997 - 1998	UT Task Force, appointment process for postdoctoral trainee

2000 - 2002	Anatomy and Neurobiology Chair Search Advisory Committee
2001 - 2005	Progress and Promotions Committee for the Medical Class of 2005
2003 -	UT Cancer Institute
2003 - 2012	Faculty Senate, Department of Molecular Sciences Senator
2005- 2011	Molecular Sciences Progress and Promotion Committee
2005- 2006	Member of interdisciplinary program curriculum committee
2003 - 2008	Faculty Senate, Research and Development Committee
2007 - 2008	Institutional Animal care and Use Committee (IACUC)
2007- 2012	Chair, Faculty Senate Research affair committee
2012	Faculty senate executive committee
2008 - 2011	Progress and Promotions Committee for the Medical Class of 2011
2008- 2010	Member, UTHSC Research Council
2009-	Permanent Member, Postdoc Advisory Committee
2011-	Microbiology, Immunology & Biochemistry (MIB) Progress and Promotion Committee
2011	UT Vice Chancellor for Research Search Advisory Committee
2012	Post doc grievance committee
2012-	Dean Faculty Advisory Committee
2012-	Progress and Promotions Committee for the Medical Class of 2016
2013-	COM Educational Metrics Committee

REGIONAL COMMITTEES

2002 - 2009	Christian Brothers University, Bioengineering Advisory Committee
2002 - 2009	Christian Brothers University, Biotechnology Advisory Committee

GRANT REVIEW:

1990 -	University of Tennessee, Health Science Center Research and Development Committee
1992 -	NIH Medical Research Fellowship Program, University of Tennessee, Health Science Center
2001	Department of Defense Congressionally Directed Medical Research Programs (CDMRP), Breast Cancer Research Program
2002	The Health Research Board in Ireland
2010	NIH Special Emphasis Panel/Scientific Review Group 2010/05 ZRG1 IMST-D

JOURNAL / BOOK CHAPTER REVIEW:

1992 - 1998	Arthritis and Rheumatism
1992 -	Journal of Biological Chemistry
1997 -	American Journal of Pathology
1999 -	Protein Expression and Purification
2005 -	Biochemistry
2007 -	Clinical Chemistry and Laboratory Medicine
2008 -	Clinical Biochemistry
2009 -	Matrix Biology
2010-	Behavioral and Brain Functions
2011-	Cellular and Molecular Neurobiology

2011- Brain Research
 2011- Annals of General Psychiatry
 2012- Molecular Microbiology
 2012- Human Genomics
 2013- Molecular Medicine
 2013 eBook: Advances in Protein Chemistry
 Editors: Ghulam Md Ashraf and Ishfaq Ahmed Sheikh
 Book Chapter Titles: Role of Matrix Metalloproteinases in Cancer

CONSULTANT:

1992 Miles Pharmaceutical Co., West Haven, CT
 1993 Glycomed, NC
 1999 Glaxo Inc., Research Triangle Park, NC
 2000 - 2001 Biopharmacorp Design Institute Inc., Canada
 2002 - 2003 Xylos Corporation, Philadelphia, PA
 2001 - 2006 Greystone Biomedical, Memphis, TN
 2008 - 2010 Dr. Ji-Moo Lee, Washington University Medical School.

GRADUATE STUDENTS/ FELLOWS TRAINED:

GRADUATE STUDENTS

1986-1988 Mark Dell'Acqua, Graduate Student, University of Maryland
 1993-1995 Chun Hui Bu, Department of Biochemistry, Ph.D. Awarded July 1996
 1993-1994 Marilyn Whittemore, Department of Chemistry, Memphis State University, M.S. Awarded 1994
 1994-1999 Thomas O'Farrell, Department of Biochemistry, Ph.D. Awarded July 2000
 2001-2002 Xiaoguang Oyoung (After a year he decided to go to MBA program)
 2003 Pegah Dalili, Department of Biology, University of Memphis, Ph.D. Awarded 2004
 2001-2002 Hilaire Praya (Christian Brothers University, Memphis, Biology, Senior research project), BA. Awarded 2002
 2003-2006 Chad Batson, M.D. Ph.D., Department of Molecular Sciences, Ph.D. awarded posthumous 2006
 2007-2011 Miranda A. Hallett, IPBS Program, Ph.D. MIB Department, Ph.D. Awarded Dec. 2011
 2013 Jeremy Brown, Master of Lab technology, degree awarded in 2013

SUMMER STUDENTS

1992 Michael Beauchamp, College senior, Purdue University
 1993 Phothisath Vongphrachanh, Minority High School Student Research Apprentice Program (MHSSRAP)
 1994 Daphnia M. Hill, Minority High School Student Research Apprentice Program (MHSSRAP)
 1995 Daphnia M. Hill, Minority High School Student Research Apprentice Program (MHSSRAP)

2005 Mathew Ison, First year Medical Student, NIH Medical Student Research Fellowship Program (MSRF)

STUDENTS ROTATING THROUGH THE LAB

1993-1994 Jian Feng, Graduate student, Department of Biochemistry
1993-1994 Tom O'Farrell, Graduate student, Department of Biochemistry
1996-1997 Hong Wen, Graduate student, Department of Biochemistry
1996-1997 Luis Jurado, Graduate student, Department of Biochemistry
1996-1997 Yan Jun Ma, Graduate student, Department of Biochemistry
1996-1997 Haiqing Dai, Graduate student, Department of Biochemistry
1996-1997 Himanshu Gadgil, Graduate student, Department of Biochemistry
1998-1999 Tao, Graduate student, Department of Biochemistry
1999-2000 Tongyuan Li, Graduate student, Department of Biochemistry
1999-2000 Ben Everett, Graduate student, Department of Biochemistry
1999-2000 Swapna Menon, Graduate student, Department of Biochemistry
2002-2003 Salar Fazlullah Khan, Graduate student, Department of Molecular Sciences
2002-2003 Walid Awad, Graduate student, Department of Molecular Sciences
2002-2003 Santosh Vyavahare, Graduate student, Department of Molecular Sciences
2002-2003 Ling Jin, Graduate student, Department of Molecular Sciences
2006-2007 Miranda A. Hallett, Graduate student, IPBS Program
2006-2007 Ethel R Pereira, Graduate student, IPBS Program
2006-2007 Akshata Ramrao Udyavar, Graduate student, IPBS Program
2008-2009 Danielle Peacock, Graduate student, IPBS Program
2008-2009 Dawn Taylor, Graduate student, IPBS Program

FELLOWS TRAINED

1990-1992 Tomo Hirose, M.D., Department of Medicine, University of Tennessee, Memphis
1993-1996 Kuljeet Kaur, Ph.D., Department of Biochemistry, University of Tennessee, Memphis
1994-1995 Shufen Wang, M.D., Visiting Scientist, Department of Biochemistry, University of Tennessee, Memphis
1996-1998 Hiroki Tsukada, M.D., Visiting Scientist, Department of Biochemistry, University of Tennessee, Memphis
1998-2000 Toshi Takada, M.D., Ph.D., Visiting Scientist, Department of Biochemistry, University of Tennessee, Memphis
2001-2003 Rong Guo, M.D., Visiting Scientist, Department of Molecular Sciences, University of Tennessee, Memphis
2001-2003 Hisashi Hasegawa, M.D., Ph.D., Visiting Scientist, Department of Molecular Sciences, University of Tennessee, Memphis
2004-2005 Ali Jafari-Mehr, M.D., Visiting Scientist, Department of Molecular Sciences, University of Tennessee, Memphis
2005-2007 Mohammad Shokouh-Amiri, M.D., Department of Molecular Sciences, University of Tennessee, Memphis

2006-2007 Ipsit Chakrabarti, Ph.D., Department of Molecular Sciences,
University of Tennessee, Memphis
2009-2011 Bin Tang, M.D. Department of Molecular Sciences, University of
Tennessee, Memphis

OTHER ACTIVITIES:

1993-1995 Mentor, Minority High School Student Research Apprentice
Program (MHSSRAP)
2003 Referee, Posters presented at the Matrix Metalloproteinases
Gordon Conference, Montana
2005- Mentor, Summer Medical Research Fellowship Program
2009- 2011 Judge, UT Graduate Research
2011 Judge, UT Postdoc Research

EXTRAMURAL AND INTERNAL SUPPORT:

2012-2013	UTRF maturation grant	Advancement of a novel therapy for metastatic tumor	\$15,000
2011-2012	University of TN, Health science Center, Bridge Support		\$50,000
2005–2010 (no cost extension until 2011)	RO1 NIH, NCI CA107183	Targeting Glioma by anti-MMPs –2 and -9 DNazymes , PI	\$1,249,319
2009-2011	F31 RO1 National Institute of Health, NCI CA144572	Treatment of Breast Cancer Tumor Growth and Metastasis with an anti- MMP-9 DNzyme , Sponsored Miranda Hallett	~ \$32,000
2003-2004	University of TN, Health science Center, Bridge Support		\$50,000
2002-2003	Greystone Biomedical	Effect of Potassium, Rubidium, Zinc, and Calcium Ions on the Expression of MMPs <i>in vitro</i> and <i>in vivo</i> Tayebeh Pourmotabbed, PI	\$131,250
1998-2003 (no cost extension until 2004)	R01, NIH, NIAMS AR41843	Competing Renewal Type V Collagenase in Rheumatoid Arthritis Tayebeh Pourmotabbed, PI	\$682, 103
1993-1997	R01, NIH, NIAMS AR41843	Type V Collagenase in Rheumatoid Arthritis , PI	\$ 398,981

1998 –1999	University of Tennessee, Cancer Institute Squamous Cell carcinoma (Small Program Project; Robert Scott, M.D., PI); Tayebbeh Pourmotabbed, Co- Investigator	\$100,000
1995-1997	CB-143 American Cancer Society Role of Matrix Metalloproteinases in Tumor Cell Invasion , PI	\$203,000
1997-1998	CB-143 American Cancer Society Competing Renewal Role of Matrix Metalloproteinases in Tumor Cell Invasion , PI	\$100,000
1991-1994 (no cost extension until 1995)	Arthritis Foundation Investigator Award The Relationship between Structure and Function of Type V Collagenase , PI	\$135,000
1991-1996	RO1 NIH AI22603-06 Characterization of Human Neutrophil Collagenase, Karen A. Hasty, PI Tayebbeh Pourmotabbed, Co-PI (\$142,776)	\$713,880

Support from this grant was discontinued after I moved to the Department of Biochemistry in January 1993

1991-1996	VA Merit Award Degradation of Extracellular Matrix by Inflammatory Phagocytes, Carlo L. Mainardi, PI ; Tayebbeh Pourmotabbed, Co-investigator Support from this grant was discontinued after I moved to the Department of Biochemistry in January 1993	\$494,080 TDC
1992-1997	NIH SCOR Grant Structure/ Function Relationship of Neutrophil Metalloproteinases, Andrew H. Kang, PI; Tayebbeh Pourmotabbed, Co-PI, Project #5 Support from this grant was discontinued after I moved to the Department of Biochemistry in January 1993	~\$4,250,000 TDC

PATENT:

Inhibition of tumor growth and invasion by anti-matrix metalloproteinases DNazymes: **United States Patent No. 12/390,628**

PUBLICATIONS:

1. **Pourmotabbed, T.** and Creighton, D.J. (1986) Substrate specificity of bovine liver formaldehyde dehydrogenase. *J. Biol. Chem.* **26**, 14240-14244

2. **Pourmotabbed, T.**, Creighton, D.J. (1986) Substrate specificity of formaldehyde dehydrogenase. *Fed. Proc.* 45:410
3. Creighton, D.J., Migliorini, M., **Pourmotabbed, T.** Guha, M. (1988) Optimization of efficiency in the glyoxalase pathway. *Biochemistry* **27**, 7376-7384
4. Creighton, D.J. and **Pourmotabbed, T.** (1988) Glutathione-dependent aldehyde oxidation reaction. In: *Molecular Structure and Energetics: Principles of Enzyme Activity*, Vol. 9. J.F. Liebman and A. Greenberg (eds.), VCH Publishers, Inc., 353-382
5. Hibler, D.W., **Pourmotabbed, T.**, Dell'Acqua, M., Gerlt, J. A., Stanczyk, S. M., Bolton, P. H., Loll, P., Lattman, E. (1988) Detection of Conformational Changes in Active Site Mutants of Staphylococcal Nuclease in "Protein and Pharmaceutical Engineering." UCLA Symposia on Molecular and Cellular Biology, New Series (C. Craik, F. Fletterick, C. R. Matthews, and J. Wells, Eds.) Arthur R. Liss, Inc., New York, **110**, 17-33
6. Wilde, J.A., Bolton, P.H., Dell'Acqua M., **Pourmotabbed, T.**, Hibler, D.W., Gerlt, J.A. (1988) Identification of residues involved in a conformational change accompanying substitutions for glutamate 43 in Staphylococcal nuclease. *Biochemistry* **27**, 4127-4132
7. Stanczyk, S.M., Bolton, P.H., Dell'Acqua, M., **Pourmotabbed, T.**, Gerlt, J.A. (1988) Direct observation of multiple environment for the H_δ but not the H_ε proton of a histidine residue in Staphylococcal nuclease. *J. Am. Chem. Soc.* **110**, 7908-7910
8. **Pourmotabbed, T.**, Mei, J.S., Creighton, D.J. (1989) Bovine liver formaldehyde dehydrogenase kinetic and molecular properties. *J. Biol. Chem.* **264**, 17384-17388
9. Hibler, D.W., Harpold, L., **Pourmotabbed, T.**, Dell'Acqua, M., Gerlt, J.A., Wilde, J.A., Bolton, P.H. (1989) The use of isotopic labeling with ²H and ¹³C to compare the conformations of proteins and mutants generated by site-directed mutagenesis I. *Methods in Enzymology* **177**, 74-86
10. Wilde, J.A., Bolton, P.H., Hibler, D.W., **Pourmotabbed, T.**, Harpold, L., Dell'Acqua, M., Gerlt, J.A. (1989) The use of isotopic labeling with ²H and ¹³C to compare the conformations of proteins and mutants generated by site-directed mutagenesis II. *Methods in Enzymology* **177**, 282-292
11. **Pourmotabbed, T.**, Hibler, D.W., Dell'Acqua, M., Gerlt, J.A., Stanczyk, S.M., Bolton, P.H., Latman, E. (1989) Detection of conformational changes in active site mutants of Staphylococcal nuclease. *FASEB J.*, 3:
12. **Pourmotabbed, T.**, Gerlt, J.A., Stanczyk, S.M., Bolton, P.H. (1990) Kinetic and conformational effects of lysine substitutions for arginines 35 and 87 in the active site of Staphylococcal nuclease. *Biochemistry* **29**, 3677-3683
13. Hasty, K.A., **Pourmotabbed, T.**, Goldberg, G.I., Thompson, J.P., Nelson, R.L., Mainardi, C.L. (1990) Human neutrophil collagenase: a distinct gene product with homology to other matrix metalloproteinases. *J. Biol. Chem.* **265**, 11421-11424
14. Hasty, K.A., **Pourmotabbed, T.**, Goldberg, G.I., Thompson, J.P., Stevens, R., Mainardi, C.L., (1990) The complete primary structure of human neutrophil collagenase. *FASEB J.*, 4:A2158
15. Mainardi, C.L., Hasty, K.A., **Pourmotabbed, T.** (1991) The neutrophil in connective tissue destruction. *Am. J. Med. Sci.* **302**, 171-176
16. Hasty, K. **Pourmotabbed, T.**, Patterson, C.E. Hirose, T., Mainardi. C.L. (1991) Neutrophil collagenase: the relationship between enzyme structure and substrate specificity. *Arthritis and Rheumatism* 34:S165

17. **Pourmotabbed, T.**, Hasty, K., Solomon, T., Mainardi, C.L. (1991) Type V collagenase from granulocytic leukemia cells: expression and cloning in *E. coli*. *Arthritis and Rheumatism* 34:S156
18. **Pourmotabbed, T.**, Solomon, T., Hasty, K., Mainardi, C.L. (1991) Isolation and characterization of recombinant neutrophil collagenase produced in *E.coli*. *FASEB J.* 5:A451
19. Mainardi, C.L., Solomon, T., Hasty, K., **Pourmotabbed, T.** (1991) Molecular cloning of type V collagenase from chronic granulocytic leukemia cells. *FASEB J.*, 5:A451
20. Hasty, K.A., **Pourmotabbed, T.**, Goldberg, G.I., Thompson, J., Stevens, R., and Mainardi, C.L. (1991) Human neutrophil collagenase: a distinct gene product with homology to other matrix metalloproteinases. *Clin. Res.* 38:317A
21. **Pourmotabbed, T.**, Hasty, K.A., Mainardi, C.L. (1992) Amino acid residues at positions 400 and 424 are essential for catalytic activity of type V collagenase. *Arthritis and Rheumatism* 50:S139
22. Hasty, K.A., Hirose, T., **Pourmotabbed, T.**, Patterson, C.E., Mainardi, C.L. (1992) Identification of a critical aspartic acid residue in the matrix metalloproteinases. *Arthritis and Rheumatism* 50:S43
23. Hirose, T., **Pourmotabbed, T.**, Patterson, C.E., Mainardi, C.L., Hasty, K.A. (1993) Structure-function relationship of human neutrophil collagenase: Identification of region responsible for substrate specificity. *Proc. Natl. Acad. Sci.* **90**, 2569-2573
24. **Pourmotabbed, T.**, Hasty, K.A., Mainardi, C.L. (1993) Type V collagenase: The relationship between structure and substrate specificity. *Arthritis Foundation Research* 24:80
25. Hasty, K.A., Hirose, T., Stuart, J.M., **Pourmotabbed, T.**, Mainardi, C.L. (1993) Collagenase: A critical enzyme in cartilage degradation. *Arthritis Foundation Research* 24:93
26. **Pourmotabbed, T.**, Solomon, T.L., Hasty, K.A., Mainardi, C.L. (1994) Characteristics of 92 kDa Type IV collagenase/gelatinase produced by granulocytic leukemia cells: Structure, expression of cDNA in *E.coli*, and enzymatic properties. *Biochem. Biophys. Acta.* **1204**, 79-107
27. **Pourmotabbed, T.** (1994) The relation between substrate specificity and domain structure of 92 kDa type IV collagenase. *Ann. NY. Acad. Sci.* **732**, 372-374
28. **Pourmotabbed, T.**, Aelion, J.A., Tyrrell, D., Hasty, K.A., Bu, C.H., Mainardi, C.L. (1995) Role of the conserved histidine and aspartic acid residues in activity and stabilization of human gelatinase B: an example of matrix metalloproteinases. *J. Prot. Chem.* **14**, 527-535
29. Bu, C.H., and **Pourmotabbed, T.** (1995) Mechanism of activation of gelatinase B: discriminating between the role of Ca⁺² in activation and catalysis. *J. Biol. Chem.* **270**, 18563-18569
30. Bu, C.H., **Pourmotabbed, T.** (1995) Activation of gelatinase B by trypsin abolishes the calcium dependency of the enzyme. *FASEB J.*, 9:A1482
31. Bu, C.H., and **Pourmotabbed, T.** (1996) Mechanism of Ca⁺²-dependent activity of human neutrophil gelatinase B. *J. Biol. Chem.* **271**, 14308-14315
32. Bu, C.H., **Pourmotabbed, T.** (1996) A salt linkage between Phe-88 and Asp-432 is responsible for Ca⁺²-independent activity of gelatinase B. *FASEB J.*, 10:A1400

33. **Pourmotabbed, T.**, Kaur, K., Zhu, K., Whittemore, M., Peterson, R., Tschesche, H. (1996) Gelatinase B only requires 12% of the protein sequence for proteolytic activity and TIMP-1 binding. *FASEB J.*, 10:A1130
34. O'Farrell, T. J., Anderson, J. T., **Pourmotabbed, T.**, (1997) Cloning of human myosin-X: An unconventional myosin. *FASEB J.*, 11:A1064
35. McCarthy, G.M., Macius, A.M., Christopherson, P.A., Ryan, L.M., **Pourmotabbed, T.** (1998). The mitogenic response to stimulation with basic calcium phosphate crystals is accompanied by induction and secretion of gelatinase B in human fibroblasts. *Ann. Rheumatic Dis.* **57**, 56-60
36. O'Farrell, T., and **Pourmotabbed, T.** (1998) The fibronectin-like domain is required for the type V and XI collagenolytic activity of gelatinase B. *Arch. Biochem. Biophys* **354**, 24-30
37. O'Farrell, T., Pourmotabbed, T., (2000) Identification of Structural Elements Important for Matrix Metalloproteinase Type V Collagenolytic Activity as Revealed by Chimeric Enzymes *J. Biol. Chem.* **275**, 27964-27972.
38. Kaur, K., Zhu, K., Whittemore, M.S., Petersen, R. L., Lichte, A., Tschesche, H., **Pourmotabbed, T.**, (2002) Identification of the active site of gelatinase B as the structural element sufficient for converting a protein to a metalloprotease, *Biochemistry*, **41**, 4789-4797
39. Tsukada, H., **Pourmotabbed, T.** (2002) Unexpected crucial role of residue 272 in substrate specificity of fibroblast collagenase, *J Biol. Chem.*, **277**, 27378-27384
40. Stute, J., **Pourmotabbed, T.**, Tschesche, H., (2003) Kinetic analysis of the binding of hemopexin-like domain of gelatinase B cloned and expressed in *pichia pastoris* to tissue inhibitor of metalloproteinases-1. *Journal of Protein Chemistry* **22**, 509-514
41. Asano, K., Duntsch, C.D., Zhou, Q., Weimar, J.D., Bordelon, D., Robertson, J.H., **Pourmotabbed, T.** (2004) Correlation of N-cadherin expression in high grade gliomas with tissue invasion. *J Neurooncol.* **70**, 3-15
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