

**Thomas P. West, Ph.D.**  
**2019-2020**

**Education**

B.S., 1974 (Biological Sciences)	Purdue University
M.S., 1976, (Biochemistry)	Texas A&M University-College Station
Ph.D., 1980 (Biochemistry)	Texas A&M University-College Station
Research Associate, 1980 (Microbiology)	Michigan State University
Research Associate, 1981 (Molecular Microbiology)	University of Arizona
Postdoctoral Fellow, 1982 (Chemistry)	Boston College

**Academic Positions**

- Assistant Professor in the Departments of Microbiology and Biological Sciences, University of Southern Mississippi, 1983-1987
- Associate Professor in the Department of Chemistry, South Dakota State University, 1988-1993
- Professor in the Department of Chemistry and Biochemistry, South Dakota State University, 1993-2004
- Professor in the Department of Biology and Microbiology, South Dakota State University, 2005-2015
- Professor and Head in the Department of Chemistry, Texas A&M University-Commerce, August 2015-present

**Professional Activities**

- Journal Editorial Boards: Biotechnology Letters, Chemical Science International Journal, Journal of Biochemistry & Physiology, Fermentation; Ad Hoc Reviewer for 53 journals.
- Ad Hoc Reviewer for Funding Agencies: National Science Foundation, Natural Sciences and Engineering Research Council of Canada, Science Foundation Ireland, Research Corporation, Mississippi-Alabama Sea Grant Consortium, U.S. Department of Agriculture Competitive Grants Program, U.S. Department of Agriculture SBIR Grants Program.
- Program Panelist: National Science Foundation Graduate Fellowship Program, National Science Foundation EPSCoR Reverse Site Visit Panel.

**Professional Affiliations**

American Chemical Society, American Society for Microbiology, Society for Industrial Microbiology and Biotechnology, Society for the Sigma Xi (Scientific Research Society) and Society for Experimental Biology and Medicine.

**Teaching Experience**

Biochemistry, Biochemistry Laboratory, Advanced Biochemistry, General Biochemistry, Graduate Biochemistry, Applied Biochemistry and Biotechnology, Medical Genetics, Microbial Genetics, Molecular Biology, Principles of Biochemistry Laboratory, Special Topics in Biochemistry, Chemistry Special Problems: Nucleic acid and Pyrimidine Metabolism, Chemistry Special Problems: Proteins and Enzymes, Applied Microbiology and Biotechnology and Advanced Cellular and Molecular Biology.

## Recent Publications

- Murahari, E. C, and T. P. West. 2019. The pyrimidine biosynthetic pathway and its regulation in *Pseudomonas jessenii*. *Antonie van Leeuwenhoek* 112:461-469. doi.org/10.1007/s10482-018-1168-8
- West, T. P. 2018. Cytidine 5'-triphosphate synthetase: A pyrimidine biosynthetic enzyme critical to cellular synthesis and cancer chemotherapy. *Biochem. Physiol.* 7:1000e160 (2 pages). doi: 10.4172/2168-9652.1000e160
- Kennedy, D. E. II and T. P. West. 2018. Effect of yeast extract addition to a mineral salts medium containing hydrolyzed plant xylan on fungal pullulan production. *Z. Naturforsch. C* 73:319-323. doi: 10.1515/znc-2018-0018
- West, T. P. 2018. Cytosine Deaminase: A pyrimidine base salvage enzyme vital to the effectiveness of a substrate mediated enzyme prodrug chemotherapy. *Biochem. Physiol.* 7:1000e159 (2 pages). doi: 10.4172/2168-9652.1000e159
- Chunduru, J., and T. P. West. 2018. Pyrimidine nucleotide synthesis in the emerging pathogen *Pseudomonas monteilii*. *Can. J. Microbiol.* 64:432-438. doi.org/10.1139/cjm-2018-0015.
- West, T. P. 2017. Fungal production of the polysaccharide pullulan from a plant hydrolysate. *Z. Naturforsch. C* 72:491-496. doi.org/10.1515/znc-2017-0032.
- West, T. P., J. Chunduru and E. C. Murahari. 2017. Orotic acid: Why it is important to understand its role in metabolism. *Biochem. Physiol.* 6:1000e157. doi: 10.4172/2168-9652.1000e157
- West, T. P. 2017. Microbial Production of malic acid from biofuel-related coproducts and biomass. *Fermentation* 3:14 (10 pages). doi: 10.3390-fermentation/3020014.
- West, T. P. 2016. Microbial malic acid production: Exploring new avenues of synthesizing a commercially-valuable chemical. *J. Microb. Biochem. Technol.* 8:321.
- West, T. P. 2016. A *Candida guilliermondii* lysine hyperproducer capable of elevated citric acid production. *World J. Microbiol. Biotechnol.* 32: 73 (5 pages).
- West, T. P. 2016. Effect of nitrogen source concentration on curdlan production by *Agrobacterium* sp. ATCC 31749 grown on prairie cordgrass hydrolysates. *Prep. Biochem. Biotechnol.* 46:85-90.
- West, T. P. 2015. Fungal biotransformation of crude glycerol into malic acid. *Z. Naturforsch. C* 70:165-167.
- West, T. P. 2015. The biochemistry of pyrimidine base catabolism: Why understanding the cellular recycling of pyrimidine bases is important. *Biochem. Physiol.* 4: 1000e135.

## Recent Professional Meeting Abstracts

- Bani Ahmad, A., J. Travis, O. Castro and T. P. West. 2018. Regulation of pyrimidine biosynthesis in *Pseudomonas chlororaphis*. Abstracts of the 74th American Chemical Society Southwest Regional Meeting, page 10, Abstract 104, November 7-10, Little Rock, AR.
- Domakonda, A. and T. P. West. 2018. Control of aspartate transcarbamoylase in *Pseudomonas aurantiaca* by pyrophosphate and nucleotides. Abstracts of the 74th American Chemical Society Southwest Regional Meeting, page 10, Abstract 102, November 7-10, Little Rock, AR.
- Stanush, L. C., Murahari, E. C. and West, T. P. 2017. Characterization of a bacterial mutant strain deficient for the pyrimidine biosynthetic enzyme orotate phosphoribosyltransferase. Abstracts of the 73rd American Chemical Society Southwest Regional Meeting, page 158-159, Abstract 210, October 29-November 1, Lubbock, TX.

### Recent Professional Meeting Abstracts (continued)

- Murahari, E. C. and West, T. P. 2017. Regulation of aspartate transcarbamoylase in *Pseudomonas jessenii* by pyrophosphate and nucleotides. Abstracts of the 73rd American Chemical Society Southwest Regional Meeting, page 155-156, Abstract 207, October 29-November 1, Lubbock, TX.
- Murahari, E. C., Lonon, A. K. and West, T. P. 2016. Control of the pyrimidine biosynthetic pathway in *Pseudomonas jessenii* by exogenous pyrimidine bases. Abstracts of the 72nd American Chemical Society Southwest Regional Meeting, pages 84, Abstract 186, November 10-13, Galveston, TX.
- Chunduru, J., Lee, V. and West, T. P. 2016. Regulation by pyrimidine bases of the pyrimidine biosynthetic pathway in *Pseudomonas monteilii*. Abstracts of the 72nd American Chemical Society Southwest Regional Meeting, pages 94, Abstract 209, November 10-13, Galveston, TX.
- Murahari, E. C., Lonon, A. K. and West, T. P. 2016. Control of the pyrimidine biosynthetic pathway in *Pseudomonas jessenii* by exogenous pyrimidine bases. Abstracts of the 72nd American Chemical Society Southwest Regional Meeting, pages 84, Abstract 186, November 10-13, Galveston, TX.
- West, T. P. 2016. Regulation of cytidine triphosphate synthetase activity in *Burkholderia cepacia*. Abstracts of the 251st ACS National Meeting & Exposition, Abstract BIOL 84, page 101, March 13-17, San Diego, CA.
- West, T. P. 2015. Effect of ammonium sulfate addition to a xylose-containing prairie cordgrass hydrolysate on fungal pullulan production. Abstracts of the 115th General Meeting of the American Society for Microbiology, Abstract O-310, page 115.
- Kennedy, D. E., II and T. P. West. 2015. Pullulan production by *Aureobasidium pullulans* grown on a cordgrass hydrolysate containing primarily xylose. 37th Symposium on Biotechnology for Fuels and Chemicals, Abstract T139, page 53, April 27-30, San Diego, CA.
- West, T. P. 2015. Production of pullulan on a dilute acid-treated prairie cordgrass hydrolysate by a fungal mutant strain relative to its parent strain. 37th Symposium on Biotechnology for Fuels and Chemicals, Abstract T61, page 47, April 27-30, San Diego, CA.