

**Thomas P. West, Ph.D.**  
**2025-2026****Education**

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|---|--------------------------------------|
| 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- November 2024; East Texas A&M University, November 2024-present.

**Professional Activities**

- Journal Editorial Boards: Biotechnology Letters, Chemical Science International Journal, Journal of Biochemistry & Physiology, Fermentation, Polysaccharides, Applied Biosciences; 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, Nucleic acid and Pyrimidine Metabolism, Chemistry Special Problems: Proteins and Enzymes, and Advanced Cellular and Molecular Biology.

## Recent Publications

- Gore, L. V. and T. P. West. 2025. Regulation of pyrimidine biosynthesis in the biocontrol bacterium *Pseudomonas aureofaciens*. *Folia Microbiol.* 70:665-672. doi: 10.1007/s12223-025-01259-3
- Bodampati, S. and T. P. West. 2025. Pyrimidine nucleotide biosynthesis and regulation in *Pseudomonas lemonnieri*. *Current Microbiol.* 82:3. doi: 10.1007/s00284-024-03957-6
- West, T. P. 2024. Impact of *Aureobasidium* species strain improvement on the production of the polysaccharide pullulan. *Polysaccharides* 5:305-319. doi: 10.3390/polysaccharides5030020
- West, T. P. 2023. Pyrimidine biosynthesis and ribonucleoside metabolism in species of *Pseudomonas*. *Fermentation* 9: 955. doi: 10.3390/fermentation9110955
- Bani Ahmad, A. and T. P. West. 2023. Regulation of the pyrimidine biosynthetic pathway in the bacterium *Pseudomonas chlororaphis*. Chapter 3 in R. G. Ward, (ed.). Pyrimidines and their Importance, pp. 191-230. Nova Press Inc., Hauppauge, NY.
- West, T. P. 2023. Citric acid production by *Aspergillus niger* using solid-state fermentation of agricultural processing coproducts. *Appl. Biosci.* 2:1–13. doi: 10.3390/applbiosci2010001
- West, T. P. 2022. Production of the polysaccharide pullulan by *Aureobasidium pullulans* cell immobilization. *Polysaccharides* 3: 544-545. doi: 10.3390/polysaccharides3030032.
- Gill, R. and T. P. West. 2022. Control of a pyrimidine ribonucleotide salvage pathway in *Pseudomonas oleovorans*. *Arch. Microbiol.* 204:383. doi: 10.1007/s00203-022-03016-3
- West, T. P. 2021. Xylitol production by *Candida* species from hydrolysates of agricultural residues and grasses. *Fermentation* 7:243 (11 pages). doi: 10.3390/fermentation7040243
- West, T. P. 2021. Synthesis of the microbial polysaccharide gellan from dairy and plant-based processing coproducts. *Polysaccharides* 2:234-244. doi: 10.3390/polysaccharides2020016
- Rudrangi, S. R. R. and T. P. West. 2020. Effect of Effect of pH on xylitol production by *Candida* species from a prairie cordgrass hydrolysate. *Z. Naturforsch. C* 75:489-493. doi: 10.1515/znc-2020-0140.
- Domaconda, A. and T. P. West. 2020. Control of pyrimidine nucleotide formation in *Pseudomonas aurantiaca*. *Arch. Microbiol.* 202:1551-1557. doi: 10.1007/s00203-020-01842-x.
- West, T. P. 2020. Production of the polysaccharide curdlan by *Agrobacterium* species on processing coproducts and plant lignocellulosic hydrolysates. *Fermentation* 6:16 (11 pages). doi: 10.3390/fermentation6010016.
- West, T. P. 2019. Plant biomass-based production of the biopolymer pullulan. Chapter 5 in J. C. Taylor, (ed.). *Advances in Chemistry Research* 57:191-208. Nova Press Inc., Hauppauge, NY.
- 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: 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 monteili*. *Can. J. Microbiol.* 64:432-438. doi: 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: 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

## Recent Professional Meeting Abstracts

- Fatima, S., K. B. Young and T. P. West. 2024. Regulation of the pyrimidine ribonucleoside pathway in *Pseudomonas putida*. Abstracts of the 80th American Chemical Society Southwest Regional Meeting, Abstract 214, October 20-23, Waco, TX.
- Brefo, E. and T. P. West. 2024. Xylitol synthesis by *Candida guilliermondii* on a plant biomass hydrolysate Abstracts of the 80th American Chemical Society Southwest Regional Meeting, Abstract 215, October 20-23, Waco, TX.
- Bodampati, S., B. Duran-Pena and T. P. West. 2023. Isolation and characterization of a bacterial mutant strain deficient for the pyrimidine biosynthetic enzyme orotate phosphotransferase. Abstracts of the 79th American Chemical Society Southwest Regional Meeting, Abstract 192, November 15-18, Oklahoma City, OK.
- Gore, L. V., B. Duran-Pena and T. P. West. 2023. Characterization of a bacterial mutant strain deficient for the pyrimidine biosynthetic enzyme orotate phosphotransferase. Abstracts of the 79th American Chemical Society Southwest Regional Meeting, Abstract 193, November 15-18, Oklahoma City, OK.
- Bodampati, S., A. R. Vara and T. P. West. 2022. Regulation of pyrimidine biosynthesis in *Pseudomonas lemonnieri*. Abstracts of the 78th American Chemical Society Southwest Regional Meeting, Abstract P175, November 6-9, Baton Rouge, LA.
- Gore, L. V., A. R. Vara and T. P. West. 2022. Control of the pyrimidine biosynthetic pathway in *Pseudomonas aureofaciens*. Abstracts of the 78th American Chemical Society Southwest Regional Meeting, Abstract P124, November 6-9, Baton Rouge, LA.
- Bani Ahmad, A. and T. P. West. 2021. Regulation of aspartate transcarbamoylase activity in *Pseudomonas chlororaphis* by ribonucleotides. Abstracts of the 77th American Chemical Society Southwest Regional Meeting, Abstract 542, October 31-November 3, Austin, TX.
- Bani Ahmad, A., Z. L. Solis and T. P. West. 2019. Characterization of a *Pseudomonas chlororaphis* mutant strain deficient for the pyrimidine biosynthetic enzyme orotidine 5'-monophosphate decarboxylase. Abstracts of the 54th American Chemical Society Midwest Regional Meeting, page 11, Abstract 107, October 16-19, Wichita, KS.
- 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.
- 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 monteili*. Abstracts of the 72nd American Chemical Society Southwest Regional Meeting, pages 94, Abstract 209, November 10-13, Galveston, TX.