

Ralph S. Tanner

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A. Professional Preparation

University of Massachusetts, Amherst, MA	B.S.	1975	Microbiology
University of Illinois, Urbana, IL	M.S.	1977	Microbiology
University of Illinois, Urbana, IL	Ph.D.	1982	Microbiology

B. Appointments

2001-Present	Professor	University of Oklahoma, Norman
1994-2001	Associate Professor	University of Oklahoma, Norman
1989-1994	Assistant Professor	University of Oklahoma, Norman
1986-1989	Visiting Assistant Professor	University of Oklahoma, Norman
1983-1986	Senior Research Microbiologist	Rohm & Haas Company, Inc.
1982-1983	Research Microbiologist	Celanese Chemical Co., Inc.

Professional Affiliations:

American Society for Microbiology	American Chemical Society
American Association for the Advancement of Science	Sigma Xi
Society for General Microbiology	National Association of Biology Teachers
American Institute for Biological Sciences	

C. Publications (relevant/recent)

Saxena, J., and R. S. Tanner. 2009. Development of a corn steep liquor-based medium for ethanol production by *Clostridium* strain P11. Abst. Ann. Meet. Am. Soc. Microbiol., O:-053, p. 410.

Allen, T. D., M. E. Caldwell, P. A. Lawson, and R. S. Tanner. 2009. Fermentation of carbon monoxide to ethanol by the novel acetogen "*Alkalibaculum bacchi*". Abst. Ann. Meet. Am. Soc. Microbiol., O-052, p. 409-410.

Gossner, A. S., F. Picardal, R. S. Tanner, and H. L. Drake. 2008. Carbon metabolism of the moderately acid-tolerant acetogen *Clostridium drakei* isolated from peat. FEMS Lett. 287:236-242.

Tanner, R. S. 2008. Production of ethanol from synthesis gas, p. 147-151. In J. D. Wall, C. S. Harwood, and A. Demain (ed.), Bioenergy. ASM Press, Washington, DC.

Lewis, R. S., A. Frankman, R. S. Tanner, A. Ahmed, and R. L. Huhnke. 2008. Ethanol via biomass-generated syngas. Int. Sugar J. 110:150-153.

Maune, M. W., and R. S. Tanner. 2008. Production of hydrogen from glucose or raw sewage by novel isolates of *Anaerobaculum*. Abst. Ann. Meet. Am. Soc. Microbiol., I-029, p. 321.

Saxena, J., and R. S. Tanner. 2008. Production of hexanol and hexanoic acid by the acetogen *Clostridium carboxidivorans* strain P7. Abst. Ann. Meet. Am. Soc. Microbiol., I-O22, p. 320.

Allen, T. D., P. F. Kraus, P. A. Lawson, G. R. Drake, D. L. Balkwill, and R. S. Tanner. 2008. *Desulfovibrio carbinoliphilis* sp. nov., a benzyl alcohol-oxidizing, sulfate-reducing bacterium. Int. J. Syst. Evol. Microbiol., 58:1313-1317.

Tanner, R. S. 2007. Cultivation of bacteria and fungi, p. 69-78. In C. J. Hurst, R. L. Crawford, J. L. Garland, D. A. Lipson, A. L. Mills, and L. D. Stetzenbach (ed.), Manual of Environmental Microbiology, 3rd edn. ASM Press, Washington, DC.

Saxena, J., M. W. Maune, and R. S. Tanner. 2007. Effect of optimizing a trace metals solution on growth and ethanol production by *Clostridium* strain P11. Abst. Ann. Meet. Am. Soc. Microbiol., O-023.

Allen, T. D., P. A. Lawson, M. D. Collins, E. Falsen and R. S. Tanner. 2006. *Cloacibacterium normanense* gen. nov., sp. nov., a new bacterium in the family *Flavobacteriaceae* isolated from municipal wastewater. Int. J. Syst. Evol. Microbiol. 56:1311-1316.

Wiegel, J., R. Tanner and F.A. Rainey. 2006. An introduction to the family *Clostridiaceae*, p. 650-673. In M. Dworkin, S. Falkow, E. Rosenberg, K.-H. Schleifer and E. Stackebrandt (ed.), The Prokaryotes, vol. 4. Springer, New York.

Liou, J. S., D. L. Balkwill, G. R. Drake and R. S. Tanner. 2005. *Clostridium carboxidivorans* sp. nov., a solvent-producing clostridium isolated from an agricultural settling lagoon, and reclassification of *Clostridium scatologenes* strain SL1 as *Clostridium drakei* sp. nov. Int. J. Syst. Evol. Microbiol. 55:2085-2091.

E. Collaborators and Other Affiliations

(i). Collaborators and co-authors

Hasan Atiyeh, Oklahoma State University
Matt Caldwell, University of Oklahoma
Kathleen Duncan, University of Oklahoma
Ray Huhnke, Oklahoma State University
Paul Lawson, University of Oklahoma
Randy Lewis, BYU
Mike McInerney, University of Oklahoma
Brad Stevenson, University of Oklahoma
Joseph Suflita, University of Oklahoma
Juergen Wiegel, University of Georgia
Mark Wilkins, Oklahoma State University

(ii). Graduate Advisor

Ralph S. Wolfe, University of Illinois

(iii). Thesis Advisor

J. Saxena, Coskata, Inc.
Toby Allen, University of Oklahoma Health Sciences Center
Eleanor Jennings, University of Tulsa
Jack Liou, Delaware Public Health Laboratory
Bill Lorowitz, Weber State University

(iv). Consulting activities

BioCide International, Norman Oklahoma
DeepReach Oxidation, Norman, Oklahoma