

Oral Presentations

1. Chen L*, Vadlani PV, Madl R, Bioprocessing of Soybean Meal: Removal of anti-nutritional factors. Annual Meeting, Society of Industrial Microbiologists (SIM), August 13-17th, 2012
2. Probst, K.V.* and P. Vadlani. 2012. Producing single cell oils using oleaginous yeast for the production of renewable value-added products. Environmental Sustainability and Bioenergy Seminar. Luiz de Queiroz College of Agriculture Universidade de São Paulo. Piracicaba/SP, Brazil. Aug. 7, 2012.
3. Probst, K.V.* and P. Vadlani. 2012. Optimization of single cell oil production from oleaginous yeast using fed-batch fermentation. ASABE Paper No. 121337652. Dallas, TX. July 29-Aug. 1, 2012 (Oral).
4. Agrupis S, Vadlani PV*, Catalino B, Pre-Treatment Studies for the Bioprocessing of Sweet Sorghum Non-Grain Biomass to Sugars. Annual Meeting, World Congress in Industrial Biotechnology and Bioprocessing, April 29-May 2, 2012
5. Probst, K.V.* and P. Vadlani. 2012. Optimization of cellular growth and single cell oil production from *Lipomyces starkeyi* using RSM experimental design. Kansas State Research Forum (KRF). Manhattan, KS. March 8, 2012.
6. Bansal S, Vadlani PV. Evaluation of biomass resources: effect of composition on sugar generation and ethanol production. ASABE Annual Meeting, Louisville, Kentucky, August 7-11, 2011
7. Chen L, Vadlani PV. Nutritional enhancement of soybean meal and hull for animal feed using microbial cultures. Asian Congress on Biotechnology, Shanghai, China, May 11-15, 2011
8. Chen L, Vadlani PV. Soybean meal and hull bioconversion for animal feed using microbial cultures. KSU Research Forum, Manhattan, KS. April 20, 2011
9. Brijwani K, Vadlani PV. Solid State Fermentation of Soybean Hulls for Cellulolytic Enzyme Production: Physicochemical Characteristics of Substrate and Bioreactor Design. Society of Industrial Microbiology Annual meeting, San Francisco, August 1-5, 2010.
10. Brijwani K, Vadlani PV. Cellulolytic Enzyme Production in Solid State Fermentation: Role of Physico-Chemical Characteristics of a Substrate. AACC International Annual Meeting, Savannah, GA, October 24-27, 2010
11. Ballard, T, Bansal S, Agrupis S, Haag L, Vadlani PV, Staggenborg, S. Seeding Rate Effects on Ethanol Production in Corn and Sorghum. International Symposium on Renewable Feedstock for Biofuel and Bio-based Products, Austin, TX, August 11-13, 2010.

12. Bansal S, Vadlani PV, Staggenborg, S. Evaluation of Different Agricultural Feedstocks for Bioethanol Production. 39th Biochemical Engineering Symposium. Kansas State University, Manhattan, KS, April 17th, 2010.
13. Zhang Y, Kumar A, Vadlani PV, Narayanan S. Cyanophycin biosynthesis using engineered Escherichia Coli BL21 and thin stillage from ethanol industry. 32nd symposium on Biotechnology for Fuels and Chemicals. April 19-22, 2010. Hilton Clearwater Beach, FL
14. Zhang Y, Kumar A, Vadlani PV, Narayanan S, Production of Nitrogen-Based Platform Chemical: Cyanophycin Biosynthesis using Recombinant Escherichia coli. International Symposium on Advanced Biological Engineering, Beijing, China. July 23-25, 2010.
15. Zhang Y, Kumar A, Vadlani PV, Narayanan S, Production of nitrogen-based platform chemical: cyanophycin biosynthesis using recombinant Escherichia Coli. 39th Biochemical Engineering Symposium. Kansas State University, Manhattan, KS, April 17th, 2010.
16. Pfromm PH, Amanor-Boadu V, Nelson R, Vadlani PV, Madl R, Bio-butanol vs. bio-ethanol: A technical and economic assessment, American Institute of Chemical Engineers (AIChE) Annual Meeting, Nashville, TN, November 8-13, 2009
17. Mukhopadhyay A, Vadlani PV, Mulukutla RS, Renk FJ, Bioconversion of Paper Mill Waste to Chemicals, TAPPI Engineering, Pulping and Environmental Conference, Memphis, TN, October 11-14, 2009
18. Yoo J, Alavi S, Vadlani PV, Amanor-Boadu V, Novel Thermo-mechanical Pre-treatment of Lignocellulosic Biomass for Efficient Ethanol Production from Agricultural Residues, AACC International Annual Meeting, Baltimore, September 14-16, 2009
19. Ananda NS, Vadlani PV, Carotenoid production on whole stillage by mixed and monoculture fermentation of *Phaffia rhodozyma* and *Sporobolomyces roseus*, Biofuels from Maize: Current Economics and Future Sustainability, AACC International Annual Meeting, Baltimore, September 14-16, 2009
20. Brijwani K, Oberoi HS, Vadlani PV, Cellulolytic enzyme system production in mixed fungal culture and its utilization for lignocellulosic biomass hydrolysis, Breeding and Bioconversion of Plants for Sustainability under Biotechnology and Sustainability, AACC International Annual Meeting, Baltimore, September 14-16, 2009
21. Mukhopadhyay A, Vadlani PV, Mulukutla RS, Renk FJ, Bioconversion of Paper Mill Waste to Value-Added Chemicals, Society for Industrial Microbiology (SIM) Annual Meeting, Toronto, Canada, July 26-30, 2009
22. Vadlani PV, Katz J, Ethanol Industry Emergence in an International Context: Biofuels from Renewable Resources, Academy of

- International Business (AIB) Annual Meeting, San Diego, California, June 27 – 30, 2009.
23. Vadlani PV, San K-Y, Bennett GN, Production of Natural Flavor Chemicals: Isoamyl Acetate Biosynthesis from Renewable Sugars Using Engineered Escherichia Coli, Advances in Fermentation/Biological Conversion, American Institute of Chemical Engineers (AIChE) Annual Meeting, Philadelphia, November 16-21, 2008
 24. San K-Y, Vadlani PV, Bennett GN, Production of Platform Chemicals from Renewable Sugars: Low-Cost Succinic Acid Fermentation Using Engineered Escherichia Coli, Environmental Biotechnology: Green Bioprocessing, AIChE Annual Meeting, Philadelphia, November 16-21, 2008
 25. Ananda KN, Vadlani PV, Murphy, D, Prasad, PVV Effect of environmental stress on ethanol production efficiency from grain sorghum, AACC International Annual Meeting, Honolulu, Hawaii, September 21-24, 2008. Abstract in Cereal Foods World 53: A20
 26. Vadlani PV, Madl, RL, Robb T, Microbial bioconversion of fiber present in distillers' grain (DG) to single cell protein, AACC International Annual Meeting, Honolulu, Hawaii, September 21-24, 2008. Abstract in Cereal Foods World 53: A42
 27. Vadlani PV, San K-Y, Bennett GN, Value-added Chemicals from Grain Sorghum: Isoamyl acetate and Succinic Acid Biosynthesis via Fermentation and Engineered Escherichia coli. AACC International Annual Meeting, October 7 – 10, 2007
 28. Vadlani PV, Mathews AP, Karr GS, Low-Cost Propionate and Acetate Salts as Road Deicer from Cheese Whey. American Institute of Chemical Engineers Annual Meeting November 4 – 9, 2007, Salt Lake City, Utah
 29. Vadlani PV, Ramachandran KB, Effect of Inoculum quality on the Start-up of UASB reactors, Indian Institute of Chemical Engineers (IIChE) Annual Meeting, Kalpakkam, India, December 1996
 30. Vadlani PV, Ramachandran KB, Steady State characteristics of UASB reactors, Indian Institute of Chemical Engineers (IIChE) Annual Meeting, Bombay, India, December 1993

Poster Presentations

1. Probst, K.V.* and P. Vadlani. 2012. Optimization of process and media parameters for single-cell oil biosynthesis using *Lipomyces starkeyi*. Kansas State University Bioenergy Symposium: Mapping sustainable bioenergy opportunities in the central great plains-feedstocks, land use, markets, and socio-economic aspects. Manhattan, KS. April 27-28, 2011.
2. Theerarattananoon K, Xu F, Wilson J, Ballard R, McKinney L, Staggenborg S, Vadlani PV, Pei ZJ, Wang D. Physical properties of

- pellets made from sorghum stalk, corn stover, wheat straw, and big bluestem. New Frontiers in Bioenergy. ASABE Annual Meeting, Louisville, Kentucky, August 7-11, 2011.
3. Chen L, Vadlani PV. Nutritional enhancement of soybean meal and hull for animal feed using microbial cultures. Kansas Soybean Expo, Topeka, KS, Jan 12th, 2011.
 4. Zhang Y, Kumar A, Vadlani PV, Narayanan S, Cyanophycin Biosynthesis from Sorghum-Derived Sugars and Recombinant *Escherichia coli*. AACC International Annual Meeting, October 24-27, 2010. Savannah, Georgia
 5. Bansal S, Zhang Y+, Vadlani PV, Biomass-Based Integrated Biorefinery: Biochemicals and Lignin Composites Manufacturing. ASME 2010 International Manufacturing Science and Engineering Conference, Erie, PA, October 12-15, 2010.
 6. Yoo J, Alavi S, Vadlani PV, Amanor- Boadu V, Thermo-mechanical Extrusion Processing as a Pretreatment for Efficient Ethanol Production from Soybean Hulls, K-State Center for Sustainable Energy, Kansas State University, KS. May 6, 2010.
 7. Chen L, Vadlani PV, Madl R. Nutritional Enhancement of Soybean Carbohydrates and Hulls for Animal Feed Using Microbial Cultures. Kansas Soybean Expo, Topeka, KS, Jan 6th, 2010
 8. Brijwani K, Vadlani PV. Improved Ethanol Production from Cellulosic Biomass: Enhanced Enzyme Production from Agro-Industrial Residues using Solid State Fermentation. Center for Sustainable Energy, Kansas State University, Manhattan, KS May 2010.
 9. Ananda NS, Vadlani PV, Madl R, Production of carotenoid-enriched animal feed by secondary fermentation of whole stillage. Recent Advances in Fermentation Technology (RAFT) VIII, San Diego, November 8 - 11, 2009
 10. Zhang Y, Kumar A, Vadlani PV, Narayanan S, Production of platform chemical from ethanol industry byproduct: cyanophycin biosynthesis using metabolically engineered *Escherichia coli* BL21. Advances in Fermentation Technology (RAFT) VIII, San Diego, November 8 - 11, 2009
 11. Zhang Y, Kumar A, Vadlani PV, Narayanan S Cyanophycin biosynthesis using engineered *Escherichia Coli* BL21 and thin stillage from ethanol industry. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater Beach, FL, April 19-22, 2010
 12. Ananda NS, Vadlani PV Production of carotenoid-enriched whole stillage and wheat bran by fermentation using *Phaffia rhodozyma* and *Sporobolomyces roseus* Society for Industrial Microbiology (SIM) Annual Meeting, Toronto, Canada, July 26-30, 2009

13. Vadlani PV, Value-added Chemicals from Paper Mill (PM) Sludge. Bioenergy and Environment, Consortium of Plant Biotechnology Symposium, Washington DC, February 9-11, 2009
14. Brijwani K, Vadlani PV, Oberoi HS, Coon E, Bioethanol Production from Wheat Straw: Enzymatic Digestion and Co-Culture Fermentation using *Saccharomyces cerevisiae* and *Pachysolen tannophilus*, Symposium on the Sustainability of Biofuels Production and Processing in the Central Plains, Manhattan, KS, September 15-16, 2008
15. Oberoi HS, Vadlani PV, Brijwani K, Coon E, Cellulase and Xylanase Production Studies: Solid State Fermentation using Wheat Straw and Bran as Substrates and *Aspergillus oryzae* and *Trichoderma reesei* cultures, Symposium on the Sustainability of Biofuels Production and Processing in the Central Plains, Manhattan, KS, September 15-16, 2008.
16. Prasad PVV, Vadlani PV, Anand KN, Madl RL, Carbohydrate and Ethanol Production Efficiency of Grain Sorghum, American Society of Agronomy (ASA) Joint Annual Meeting, Houston, TX, October 5-9, 2008.
17. Vadlani PV, Ramachandran KB, Hydrodynamics studies in UASB reactor, International Conference on Mixing, Tioman Island, Malaysia, April 1998

Invited Speaker

1. Biofuels and Biochemicals via Biochemical Platform, Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India. January 17th, 2012
2. Biofuels and Animal Feed Products via Fermentation. SAAFoST Northern Branch Lecture (in collaboration with Cereal Science and Technology-South Africa), Department of Food Science, University of Pretoria, Main Campus, Hatfield, South Africa. August 4th, 2011
3. Biofuels: Status and Potential in the US. ARC-LNR, Grain Crops Institute, Potchefstroom, South Africa. August 5th, 2011
4. Biofuels and Bioproducts from Renewable Resources. Intensive Program (IP) on Sustainability and Energy, University of Graz, Graz, Austria. July 8th 2011 (via Distance)
5. Biochemical Platform for Fuels and Chemicals from Renewable Resources, Department of Chemical Engineering Seminar Series, Kansas State University. February 22nd, 2011
6. Value-Added Products from Sorghum via Enzymatic and Microbial Bioprocessing. Great Plains Sorghum Conference & 27th Biennial Sorghum Research and Utilization Conference, Mead, Nebraska, August 11-12, 2010.
7. Biofuels Production and Economics, CHE 670 Sustainability Seminar, Chemical Engineering Department, Kansas State University, July 23, 2010.

8. Kansas State University: College of Agriculture and Biofuels, Mariano Marcos State University, Batac City, Ilocos Norte, Philippines, July 14th, 2010
9. Production of Chemicals via Microbial Bioprocessing, Department of Chemical Engineering, University of Philippines, Diliman Campus, Philippines, July 16th, 2010.
10. Biofuels from Renewable Resources, College of Engineering, University of Santo Tomas, Manila, Philippines, July 18th, 2010.
11. Value-added Chemicals and Improved Animal Feed Product from Agricultural Resources: Biocatalysis and Microbial Fermentation. BIT's Inaugural Symposium on Enzymes and Biocatalysis, Shanghai Everbright Convention and Exhibition Center, Shanghai, China, April 22 – 24, 2010.
12. Ethanol production from biomass resources. Symposium on bioprocessing and sustainability. Panama City, Panama, November 30 – December 6, 2009
13. An Integrated Approach to Biorefining, Cellulosic Ethanol: Critical Constraints to Success, AACC International Annual Meeting, Baltimore, Maryland, September 13 – 16, 2009
14. Traditional Ethanol via Fermentation Production and Use, Biofuel Processes and Applications, Overland Park, Kansas City, September 10, 2009
15. Production and Use of Biogas, Biofuel Processes and Applications, Overland Park, Kansas City, September 10, 2009
16. Biofuels and Platform Chemicals from Agricultural Resources: Biocatalysis and Microbial Fermentation, Emerging Trends in Catalysis and Biocatalysis, Department of Chemistry, Sri Sathya Sai University, Puttaparthi, India, August 11 – 13th, 2009
17. Integrated Wheat-based Biorefinery: Value-added Bioproducts using Enzymes and Microbial Fermentation, International Wheat Quality Conference IV, Saskatoon, Saskatchewan, Canada, June 2-6, 2009
18. Platform chemicals from renewable resources via bioprocessing, Center for Biopolymer by Design, Kansas State University, March 5, 2009.
19. Bioprocessing: Status and Potential, Sri Sathya Sai University, Puttaparthi, India, June 7, 2008
20. Industrial Biotechnology: Recent Advances, School of Biotechnology, JNTU, Hyderabad, India, June 16, 2008
21. Industrial Biotechnology: Future Challenges and Opportunities, Rice University, Biochemical Engineering Class, Houston, TX, March 29, 2007; April 10, 2008
22. Value-Added Products from Plant Resources: Biofuels and Biochemicals. Plant Biology and Environment: Changing Scenario, University of Allahabad, Allahabad, India, December 17 – 19, 2008

23. Bread or BTUs: Industrial Wheat Applications, K-State Research and Extension, ARC-Hays Fall Field Day, Fort Hays, KS, August 23, 2007
24. Bioprocessing of Cellulosic materials to high value products, MeadWestvaco Innovation Center, Rayleigh, NC, November 13, 2007
25. Cellulosic Ethanol: Status and Potential, Bioenergy and Water in Kansas, Kansas Water Office and KCARE, Garden City, KS, December 7, 2007