

## Trash to Treasure with our Microbial Friends: Converting Waste Streams to Nutrient Feeds

### Integrated Bioprocess Systems for Low-Cost Environmental Remediation and Sustainable Biofertilizer Production

This document contains references cited on our group's P3 poster that was presented at the EPA Expo in Washington, D.C., available [here](#).

1. Bishop PE, Jarlenski DL, Hetherington DR, (1980). Evidence for an alternative nitrogen fixation system in *Azotobacter vinelandii*. Proc. Natl. Acad. Sci. USA: 77(12): 7342-7346.
2. Winogradsky S. (1932). Etudes sur la microbiologie du sol et des eaux. sur la morphologie et l'oecologie des *Azotobacter*. Ann. Inst. Pasteur, 60: 351-400.
3. Newton JW, Wilson PW, Burris RH, (1953). Direct demonstration of ammonia as an intermediate in Nitrogen Fixation. The Journal of Biological Chemistry, 204: 445-451.
4. Mrkovacki N, Kovacav LN, Mezei S (2001). Application of microbiological preparation in sugarbeet production. A Period Sci. Res. Field Vegetable Crops., 35: 67-73.
5. Brown ME, Burlingham SK, (1968). Production of plant growth substances by *Azotobacter chroococcum*. J. Gen. Microbiol., 53: 135-144.
6. Seefeldt LC, Hoffman BM, Dean, DR., (2009). Mechanism of Mo-Dependent Nitrogenase. Annu. Rev. Biochem., 78: 701-722.
7. Eady RR, (1996). Structure-Function Relationships of Alternative Nitrogenases. Chem. Rev: 96, 3013-3030.
8. McCarty PL, (1971). Energetics and Bacterial Growth. In: Organic Compounds in Aquatic Environments. Eds. Faust SJ and Hunger JV. Marcel Dekker, INC. New York.
9. McCarty PL, (2006). Thermodynamic Electron Equivalents Model for Bacterial Yield Prediction: Modifications and Comparative Evaluations. Biotech. and Bioeng: 97(2): 377-388.
10. Rittman BE, McCarty PE, (2005). Environmental Biotechnology: Principles and Applications. McGraw Hill, New York.