

## Ericka L. Barrett

### Publications

1. \* Ralston, Ericka, N.J. Palleroni and M. Doudoroff. Jan. 1972. Deoxyribonucleic acid homologies of some so-called *Hydrogenomonas* species. *Journal of Bacteriology* 109(1):465-466.
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3. \* Ralston, Ericka, N.J. Palleroni and M. Doudoroff. Jan. 1973. *Pseudomonas picketti*, a new species of clinical origin related to *Pseudomonas solanacearum*. *International Journal of Systematic Bacteriology* 23(1):15-19.
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5. \* Barrett, E.L., C.E. Jackson, H.T. Fukumoto and G.W. Chang. Dec. 1979. Formate dehydrogenase mutants of *Salmonella typhimurium*: a new medium for their isolation and new mutant classes. *Molecular and General Genetics* 177(1):95-101.
6. \* Barrett, E.L., and G.W. Chang. Dec. 1979. Cysteine auxotrophs of *Salmonella typhimurium* which grow without cysteine in a hydrogen/carbon dioxide atmosphere. *Journal of General Microbiology* 115(2):513-516.
7. \* Davidson, Arden R., Helen E. Fukumoto, Calvin E. Jackson, Ericka L. Barrett and George W. Chang. Dec. 1979. Mutants of *Salmonella typhimurium* defective in the reduction of trimethylamine oxide. *FEMS Microbiology Letters* 6(6):417-420.
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9. \* Champion, Alex B., Ericka L. Barrett, Norberto J. Palleroni, Kathy L. Soderberg, Riyo Kunisawa, Rebecca Contopoulou, Allan C. Wilson and Michael Doudoroff. Oct. 1980. Evolution in *Pseudomonas fluorescens*. *Journal of General Microbiology* 120(2):485-511.
10. \* Barrett, Ericka L., and Daniel L. Riggs. Feb. 1982. *Salmonella typhimurium* mutants defective in the formate dehydrogenase linked to nitrate reductase. *Journal of Bacteriology* 149(2):554-560.
11. \* Morton, David J., and Ericka L. Barrett. April 1982. Gram-negative respiratory bacteria which causeropy milk constitute a distinct cluster within the genus *Acinetobacter*. *Current Microbiology* 7(2):107-112.

- 12.\* Barrett, Ericka L., and Daniel L. Riggs. May 1982. Evidence for a second nitrate reductase activity that is distinct from the respiratory enzyme in *Salmonella typhimurium*. *Journal of Bacteriology* 150(2):563-571.
- 13.\* Mokhele, Khotso, Andrew R. Johnson, Ericka Barrett and David M. Ogrydziak. March 1983. Microbiological analysis of rock cod (*Sebastes spp.*) stored under elevated carbon dioxide atmospheres. *Applied and Environmental Microbiology* 45(3):878-883.
- 14.\* King, W.R., E.B. Collins and E.L. Barrett. May 1983. Frequencies of bacteriophage-resistant and slow acid-producing variants of *Streptococcus cremoris*. *Applied and Environmental Microbiology* 45(5):1481-1485.
- 15.\* Kwan, H.S., and E.L. Barrett. Sept. 1983. Roles for menaquinone and the two trimethylamine oxide (TMAO) reductases in TMAO respiration in *Salmonella typhimurium*: Mu *d(Ap<sup>r</sup> lac)* insertion mutations in *men* and *tor*. *Journal of Bacteriology* 155(3):1147-1155.
- 16.\* Kwan, H.S., and E.L. Barrett. Sept. 1983. Purification and properties of trimethylamine oxide reductase from *Salmonella typhimurium*. *Journal of Bacteriology* 155(3):1455-1458.
- 17.\* Barrett, E.L., E.B. Collins, B.J. Hall and S.H. Matoi. Dec. 1983. Production of 2,3-butylene glycol from whey by *Klebsiella pneumoniae* and *Enterobacter aerogenes*. *Journal of Dairy Science* 66(12):2507-2514.
- 18.\* Wong, Po-keung, and Ericka L. Barrett. April 1984. Aerobic and anaerobic alcohol dehydrogenases in *Escherichia coli*. *FEMS Microbiology Letters* 22(2):143-148.
- 19.\* Barrett, E.L., H.S. Kwan and J. Macy. June 1984. Anaerobiosis, formate, nitrate, and *pyrA* are involved in the regulation of formate hydrogenlyase in *Salmonella typhimurium*. *Journal of Bacteriology* 158(3):972-977.
- 20.\* Kwan, H.S., and E.L. Barrett. Sept. 1984. Map locations and functions of *Salmonella typhimurium men* genes. *Journal of Bacteriology* 159(3):1090-1092.
- 21.\* Barrett, E.L., and H.S. Kwan. 1985. Bacterial reduction of trimethylamine oxide. *Annual Review of Microbiology* 39:131-149.
- 22.\* Rodriguez, Marcia H., and Ericka L. Barrett. Sept. 1986. Changes in microbial population and growth of *Bacillus cereus* during storage of reconstituted dry milk. *Journal of Food Protection* 49(9):680-686.
- 23.\* Barrett, Ericka L., Ramon E. Solanes, Jane S. Tang and Norberto J. Palleroni. Oct. 1986. *Pseudomonas fluorescens* biovar V: its resolution into distinct component groups and the relationship of these groups to other *P. fluorescens* biovars, to *P. putida*, and to psychrotrophic Pseudomonads associated with food spoilage. *Journal of General Microbiology* 132(10):2709-2721.

- 24.\* Barrett, Ericka L., and Marta A. Clark. June 1987. Tetrathionate reduction and production of hydrogen sulfide from thiosulfate. *Microbiological Reviews* 51(2):192-205.
- 25.\* Clark, Marta A., and Ericka L. Barrett. June 1987. The *phs* gene and hydrogen sulfide production by *Salmonella typhimurium*. *Journal of Bacteriology* 169(6):2391-2397.
- 26.\* Clark, Marta A., and Ericka L. Barrett. 1987. Catabolite repression of thiosulfate reduction by *Salmonella typhimurium*. *Current Microbiology* 16(1):27-31.
- 27.\* Riggs, Daniel L., Jane S. Tang and Ericka L. Barrett. Nov. 1987. Thiosulfate reductase in *Salmonella typhimurium*. *FEMS Microbiology Letters* 44(3):427-430.
- 28.\* Grisius, Richard, John Henry Wells, Ericka L. Barrett and R. Paul Singh. Dec. 1987. Correlation of time-temperature indicator response with microbial growth in pasteurized milk. *Journal of Food Processing and Preservation* 11(4):309-324.
- 29.\* Pratt-Lowe, E.L., R.M. Geiger, T. Richardson and E.L. Barrett. Jan. 1988. Heat resistance of alkaline phosphatases produced by microorganisms isolated from California Mexican-style cheeses. *Journal of Dairy Science* 71(1):17-23.
- 30.\* Paveglio, Maryanne T., Jane S. Tang, Ronald E. Unger and Ericka L. Barrett. Jan. 1988. Formate-nitrate respiration in *Salmonella typhimurium*: studies of two *rha*-linked *fdn* genes. *Journal of Bacteriology* 170(1):213-217.
- 31.\* Hallenbeck, Patrick C., Marta A. Clark and Ericka L. Barrett. June 1989. Characterization of anaerobic sulfite reduction by *Salmonella typhimurium* and purification of the anaerobically induced sulfite reductase. *Journal of Bacteriology* 171(6):3008-3015.
- 32.\* Huang, Cheng J., and Ericka L. Barrett. July 1990. Identification and cloning of genes involved in the anaerobic sulfite reduction by *Salmonella typhimurium*. *Journal of Bacteriology* 172(7):4100-4102.
- 33.\* Huang, Cheng J., and Ericka L. Barrett. Feb. 1991. Sequence analysis and expression of the *Salmonella typhimurium* *asr* operon encoding production of hydrogen sulfide from sulfite. *Journal of Bacteriology* 173(4):1544-1553.
- 34.\* Fong, Chin-Lin W., Nina K. Heinzinger, Sommanudtida Tongklan and Ericka L. Barrett. Oct. 1993. Cloning of the *phs* genetic locus from *Salmonella typhimurium* and a role for a *phs* product in its own induction. *Journal of Bacteriology* 175(19):6368-6371.
- 35.\* Heinzinger, Nina K., Susan Y. Fujimoto, Marta A. Clark, Matthew S. Moreno and Ericka L. Barrett. May 1995. Sequence analysis of the *phs* operon in *Salmonella typhimurium* and the contribution of thiosulfate reduction to anaerobic energy metabolism. *Journal of Bacteriology* 177(10):2813-2820.

- 36.\* Sasahara, Kyle C., Nina K. Heinzinger and Ericka L. Barrett. Nov. 1997. Hydrogen sulfide production and fermentative gas production by *Salmonella typhimurium* require F<sub>0</sub>F<sub>1</sub> ATP synthase activity. Journal of Bacteriology 179(21):6736-6740.

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Reports, Limited Distribution

1. Barrett, E.L. Jan. 1994. Food Science and Technology, University of California at Davis. CSRS Review, 287 pp.
2. Barrett, E.L. Sept. 1994. Proposal for the Modernization and Expansion of the Facility for Advanced Food Science and Technology, Department of Food Science and Technology, University of California at Davis, 5 pp.

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Abstracts

1. Aldridge, M.L., and E.L. Barrett. 1982. Anaerobic sulfite reduction by a *cysI* deletion mutant of *Salmonella typhimurium*. Abstract K93, IN: Abstracts of the 82nd Annual Meeting, American Society for Microbiology, Atlanta, Georgia.
2. Barrett, E.L., and D.L. Riggs. 1982. A second nitrate reductase activity in *Salmonella typhimurium*. Abstract K31, IN: Abstracts of the 82nd Annual Meeting, American Society for Microbiology, Atlanta, Georgia.
3. Kwan, H.S., and E.L. Barrett. 1982. Trimethylamine oxide reductase of *Salmonella typhimurium*. Abstract K95, IN: Abstracts of the 82nd Annual Meeting, American Society for Microbiology, Atlanta, Georgia.
4. Matoi, S.H., E.L. Barrett, E.B. Collins and R.A. Speckman. June 1982. Optimum fermentation conditions for the production of 2,3-butyleneglycol in sweet whey by *Klebsiella pneumoniae*. Abstract No. 197, IN: Program, 42nd Annual Institute of Food Technologists Meeting, Las Vegas, Nevada.
5. Mokhele, K., E. Barrett, A. Johnson and D. Ogrydziak. June 1982. Microbiology of rockcod stored under modified atmosphere. Abstract No. 224, IN: Program, 42nd Annual Institute of Food Technologists Meeting, Las Vegas, Nevada.
6. Morton, D.J., L. Marlow, R.L. Merson & E.L. Barrett. June 1982. Inactivation of *Pseudomonas* protease in ultrahigh temperature (UHT) processing. Abstract No. 287, IN: Program, 42nd Annual Institute of Food Technologists Meeting, Las Vegas, Nevada.
7. Wong, P.K., and E.L. Barrett. 1983. Purification of alcohol dehydrogenase from an ethanol utilizing mutant of *Escherichia coli*. Abstract K28, IN: Abstracts of the 83rd Annual Meeting of the American Society for Microbiology, New Orleans, Louisiana.
8. Kwan, H.S., and E.L. Barrett. 1983. Mutants of *Salmonella typhimurium* defective in trimethylamine oxide reduction. Abstract K54, IN: Abstracts of the 83rd Annual Meeting of the American Society for Microbiology, New Orleans, Louisiana.
9. Riggs, D.L., and E.L. Barrett. 1983. Role for thiosulfate reductase in the chlorate sensitivity of *Salmonella typhimurium*. Abstract K246, IN: Abstracts of the 83rd Annual Meeting of the American Society for Microbiology, New Orleans, Louisiana.
10. Clark, M.A., and E.L. Barrett. March 1986. Thiosulfate reductase activity associated with the production of hydrogen sulfide from thiosulfate by *Salmonella typhimurium*. Abstract K-51, IN: Abstracts, 86th Annual Meeting of the American Society of Microbiology, Washington, D.C.

11. Tang, Jane S., and Ericka L. Barrett. March 1986. Regulation of anaerobic metabolism in *Salmonella typhimurium* involves a genetic locus distinct from *oxrA*. Abstract K-120, IN: Abstracts, 86th Annual Meeting of the American Society of Microbiology, Washington, D.C.
12. Unger, Ronald E., and Ericka L. Barrett. March 1986. Characterization of *Salmonella typhimurium* mutants defective in the secondary nitrate reductase. Abstract K-47, IN: Abstracts, 86th Annual Meeting of the American Society of Microbiology, Washington, D.C.
13. Hallenbeck, Patrick C., and Ericka L. Barrett. March 1987. Anaerobic sulfite reduction by *Salmonella typhimurium*. IN: Abstracts of the Annual Meeting of the American Society for Microbiology, Atlanta, Georgia (Abstract No. K-78).
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15. Wang, Chin-Lin, Patrick C. Hallenbeck and Ericka L. Barrett. May 1988. Purification of thiosulfate reductase from *Salmonella typhimurium*. Abstract No. K-18, IN: Abstracts of the Annual Meeting of the American Society for Microbiology, Miami Beach, Florida.
16. Wang, Chin-Lin, and Ericka L. Barrett. May 1989. Production of hydrogen sulfide by thiosulfate reductase in *Salmonella typhimurium*. IN: Abstracts of the Annual Meeting of the American Society for Microbiology, New Orleans, Louisiana (Abstract No. K-153).
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19. Loretz, Kathleen and Ericka L. Barrett. June 1992. Regulation of anaerobic sulfite reduction in *Salmonella typhimurium*. IN: Book of Abstracts, 1992 IFT Annual Meeting, Institute of Food Technologists, New Orleans, LA.
20. Sasahara, K.C., and E.L. Barrett. May 1997. ATP synthase mutations in *Salmonella typhimurium* prevent hydrogen sulfide production. IN: Book of Abstracts, 1997 General Meeting of the American Society for Microbiology 97:357.