

ABBREVIATED CURRICULUM VITAE

VICKI CAMERON

Education

B.A. 1969: Sociology, University of Illinois Champaign-Urbana
Ph.D. 1986: Molecular Biology, MCD Biology, University of Colorado, Boulder

Membership in Profession Societies

Phi Kappa Phi National Honor Society
Sigma Xi, the Scientific Research Society
Council on Undergraduate Research
American Association for the Advancement of Science
Genetics Society of America
American Society for Microbiology

Employment

2003-present	Charles A. Dana Professor of Natural Sciences/Mathematics
1999-present	Professor, Ithaca College, Ithaca, NY
1985-1999	Assistant and Associate Professor, Ithaca College
1980-1985	Graduate Student, MCD Biology, University of Colorado Boulder
1972-1980	Research Chemist, Biochemistry Dept., University of Illinois
1971-1972	Research Assistant, Dairy Biochemistry Dept, University of Illinois
1969-1971	Research Assistant, Microbiology Dept, Univ. California at Irvine

Funded Grants

2003-2007: NSF-RUI, "Effect of Amino Acid Substitutions on the Production, Localization, Processing, Stability, and Function of Subunit II of Cytochrome *c* Oxidase in Yeast.

2002: Pfizer Summer Undergraduate Research Fellowship awarded to Shannon Werner for work on "Localization and Enzymatic Processing of a Mitochondrial Protein in *Saccharomyces cerevisiae*."

1998-2003: NSF-RUI, "Genetic Analysis of the Function of Cytochrome *c* Oxidase Sbunits encoded on Mitochondrial DNA in Yeast."

1994-1998: NSF-RUI, "Structure and Function of Subunit II of Cytochrome *c* Oxidase."

1993-1994: Keck Foundation, "Instrumentation for Cell and Molecular Biology and Biochemistry."

1991-1993: NSF-ILI, "Improvement and Enhancement of Laboratory Experimentation in General Genetics."

1989-1993: NSF-RUI, "Analysis of Revertants of a Yeast Mitochondrial Promoter Mutant."
1986-1989: Research Corporation, "Analysis of Sequences Controlling mRNA Production for a Mitochondrially Encoded Protein in Yeast."

Publications

Cameron, V. (2003). Teaching Advanced Genetics Without Lectures. *Genetics*: **165**: 945-950.

Machingo, Q., Mazourek, M. and Cameron, V. (2001). Second Site, Intragenic Alterations in the Gene Encoding Subunit II of Cytochrome *c* Oxidase from Yeast Can Suppress Two Different Missense Mutations. *Current Genetics*: **39**: 297-304.

Mazourek, M., Torello, A.T., and Cameron, V. (1999). Analysis of Strains of *Saccharomyces cerevisiae* with Amino Acid Substitutions in the CuA Binding Region of Subunit II of Cytochrome *c* Oxidase. *Current Genetics*, **36**: 249-255.

Torello, A.T., Overholtzer, M.H., Cameron, V., Bonnefoy, N. and Fox, T.D. (1997). ?Deletion of the Leader Peptide of the Mitochondrially Encoded Precursor of *Saccharomyces cerevisiae* Cytochrome *c* Oxidase Subunit II. *Genetics*, **145**: 903-910.

Overholtzer, M.H., Yakowec, P.S. and Cameron V. (1996) ?The Effect of Amino Acid Substitutions in the Conserved Aromatic Region of Subunit II of Cytochrome *c* Oxidase in *Saccharomyces cerevisiae*.? *J. Biol. Chem.*, **271**: 7719-7724.

Poyton, R.O., Sevarino, K.A., McKee, E.E., Duhl, D.J.M., Cameron, V. and Goehring, B. (1996) "Export of Proteins from the Mitochondria." in *Advances in Molecular and Cell Biology, Vol. 19: Protein Targeting to Mitochondria*, ed. Bittar, E.E. JAI Press, Greenwich, CN., pp. 245-277.

Wilson, T. M. and Cameron, V. (1994) Replacement of a Conserved Glycine Residue in Subunit II of Cytochrome *c* Oxidase Interferes with Protein Function. *Current Genetics*, **25**: 233-238.

Cameron, V., Fox, T. D., and R. O. Poyton. (1989). Isolation and Characterization of a Yeast Strain Carrying a Mutation in the Mitochondrial Promoter for *COX2*. *J. Biol. Chem.*, **264**(23):13391-13394.

McEwen, J., Cameron, V., and R. O. Poyton. (1985). Rapid Method for Isolation and Screening of Cytochrome Oxidase Deficient Mutants of *Saccharomyces cerevisiae*. *J. Bact.*, **161**:831-835.

Carey, J., Cameron, V., Krug, M., deHaseth, P., and O. C. Uhlenbeck. (1984). Failure of Translational Repression in the Phage f2 *op3* Mutant is Not Due to an Altered Coat protein-RNA Interaction, *J. Biol. Chem.*, **259**:20-22

Carey, J., Cameron, V., deHaseth, P., and O. C. Uhlenbeck. (1983). Sequence Specific Interaction of R17 Coat Protein and its Ribonucleic Acid Binding Site. *Biochemistry*, **22**:2601-2610.

Cameron, V., D. Soltis, and O. C. Uhlenbeck. (1978). Polynucleotide Kinase from a T4 Mutant Which Lacks the 3'-Phosphatase Activity. *Nuc. Acids Res.*, **5**:825-833.

Cameron, V. and O. C. Uhlenbeck. (1977). 3'-Phosphatase Activity in T4 Polynucleotide Kinase. *Biochemistry*, **16**:5120-5126.

Uhlenbeck, O. C., and V. Cameron. (1977). Equimolar Addition of Oligoribonucleotides with T4 RNA Ligase. *Nuc. Acids Res.*, **4**:85-89.

Cameron, V. and O. C. Uhlenbeck. (1973). Removal of Y-37 from tRNA^{phe}-yeast Alters Oligomer Binding to Two Loops, *B.B.R.C.*, **50**:635-640.

(authors in bold are Ithaca College undergraduates)