

STATEMENT OF QUALIFICATIONS

(Use additional sheets if necessary)

Name of Lab: NCSBI Crime Laboratory (Raleigh) **Date:** July 15, 2003

Name: Michael J. Budzynski **Job Title:** Forensic Molecular Geneticist Supervisor

Discipline(s): Indicate all areas in which you do casework.

- | | |
|---|---|
| <input type="checkbox"/> Controlled Substances (marijuana only) | <input checked="" type="checkbox"/> DNA |
| <input type="checkbox"/> Toxicology | <input type="checkbox"/> Firearms/Toolmarks |
| <input type="checkbox"/> Trace Evidence | <input type="checkbox"/> Questioned Documents |
| <input checked="" type="checkbox"/> Serology | <input type="checkbox"/> Latent Prints |

Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
NC State University	1980-1985	Biochemistry	B.S.
		Zoology	B.S.

COURSE WORK FOR DNA:

Biochemistry 451, 561 - NC State Univ.

Genetics 411 - NC State Univ.

Molecular Biology/Genetics 505A, 505B - NC State Univ.

FBI DNA and Advanced DNA Schools-offered for credit thru the Univ. Of Virginia

Statistics 311 - NC State Univ.

Other Training: List continuing education, workshops, in-service and other formal training received.

See Attached SBI Training Transcript

Courtroom Experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Forensic Serology	- October, 1988 - present	- 8 times
Forensic DNA typing	- March, 1992 - present	- 43 times

Professional Affiliations: List any professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

None

Employment History: List all scientific or technical positions held, particularly those related to forensic science. List current position first. Give a brief summary of principal duties and tenure in each position.

Job Title: Special Agent in Charge Employer: NCSBI Crime Laboratory

Principal Duties: Oversee the daily operations of the Molecular Genetics Section.

Tenure: 1985-present

Job Title: Forensic Molecular Geneticist III Employer: NCSBI Crime Laboratory

Principal Duties: Perform DNA, body fluid and marijuana analysis on evidential material. Assistant supervisor of section in charge of the body fluid unit.

Tenure: 1985-present

Job Title: Lab Technician Employer: Burroughs Wellcome

Principal Duties: Growth of cell cultures. Quantitative study of phosphorylase activity in *G.lamblia*. Synthesizing compounds through enzymatic processes.

Tenure: 6/84-12/84 & 5/85-9/85

Other Qualifications: List below and scientific publication and/or presentation you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualification as a forensic scientist. (Use additional sheets if necessary)

Tri-authored paper in Carolina Tips; Blood Secrets Revealed.

Performed population and validation study on ESD and Gc IEF which is now being used in the Molecular Genetics Section.

Budzynski, M.J., et al, Calcium Alginate Swabs, *Journal of Forensic Sciences*, 37:3 p686

Nelson, M.S., et al, The Effects of Ethidium Bromide Agarose Type and DNA Concentration on the Mobility of RFLP=s use in Forensic Science, *Canadian Journal of Forensic Science* 23:4 p129

Nelson, MS, Benzinger, EA, Budzynski, MJ, Boodee, MT, Matthews, A, Buel, E, Schwartz, MB, von Beroldingen C, Wampler, RL, Coons, TM, Bixby, J, Frank WE, Metzger DA (1996) Validation of probe EFD52 (D17S26) for forensic DNA analysis. *Journal of Forensic Sciences* 41:557-568.

Eleni N. Levedakou,¹ Ph.D.; David A. Freeman,¹ Ph.D.; Michael J. Budzynski,¹ B.S.; Buddy E. Early,¹ B.S.; Elizabeth Amriott², B.S.; Kevin C. McElfresh³, Ph.D.; James W. Schumm³, Ph.D.; Suzanna R. Ulery³, M.S.; Dayse Silva⁴, M.S.; Amy Jo Townley⁵, B.S.; Anne Pollard⁵, B.S.; Jennifer Lewis⁵, B.S.; Jennifer Gombos⁵, B.S.; Jeff Sailus⁶, B.S.; Jeff D. Ban⁵, B.S.; Cecelia A. Crouse⁴, Ph.D.; and Mark S. Nelson¹, M.S. (2000) Allele Frequencies for Fourteen STR Loci of the PowerPlex™ 1.1 and 2.1 Multiplex Systems and Penta D Locus in Caucasians, African-Americans, Hispanics and Other Populations of the United States of America. *Journal of Forensic Sciences*, in review.

Eleni N. Levedakou,¹ Ph.D.; David A. Freeman,¹ Ph.D.; Michael J. Budzynski,¹ B.S.; Buddy E. Early,¹ B.S.; Amy Jo Townley,² B.S.; Anne Pollard,² B.S.; Jennifer Lewis,² B.S.; Jennifer Gombos,² B.S.; Frank Kist,³ B.S.; Mary Hockensmith,³ B.S.; Michelle Terwillinger,³ B.S.; Elizabeth Amriott⁴, B.S.; Kevin C. McElfresh⁵, Ph.D.; James W. Schumm⁵, Ph.D.; Suzanna R. Ulery⁵, M.S.; Felipe Konotop,⁶ B.S.; Tara Hockenberry,⁶ B.S.; Jeff Sailus⁷, B.S.; Cecelia A. Crouse,⁶ Ph.D.; Christine S. Tomsey,³ M.S.; Jeff D. Ban², B.S.; and Mark S. Nelson,¹ M.S. (2000) Characterization and Validation Studies of PowerPlex™ 2.1, a Nine-Locus Short Tandem Repeat (STR) Multiplex System, and Penta D Monoplex. *Journal of Forensic Sciences*, in review.