

STATEMENT OF QUALIFICATIONS

(Use additional sheets if necessary)

Name of Lab Crime Laboratory-Madison Date January 17, 2007

Name John R. Ertl Job Title Forensic Scientist, Senior

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

- | | |
|--|---|
| <input type="checkbox"/> controlled substances | <input checked="" type="checkbox"/> DNA |
| <input checked="" type="checkbox"/> field response-photography | <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
UW-Parkside	9/80 - 5/84	Chemistry	BS
UW-Parkside	9/90 - 5/92	Applied Molecular Biology	MS

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

- In-service Serology/DNA training at Wisc State Crime Lab - Milwaukee 3/97 - 11/98
- Two-day workshop on population statistics (George Carmody) Waukesha, 7/98
- In-service Serology/DNA training at TX DPS Crime Lab 2/22/99-12/17/99
- PE - BIO STR 310 Training - 4 day course 11/02/99 - 11/05/99
- Bloodspatter Pattern Analysis (Tom Bevel) 8/23-25/99
- Courtroom Testimony Techniques 12/8 - 9/99 (Ron Smith)
- FBI Specialized Software CODIS Training, Vienna, VA, June 18 - 22, 2000
- DNA Sequencing and GeneScan Seminar, PE Biosystems, 7/19/2000
- Statistics and Population Genetics Forensic DNA Analysis, North Carolina State University, Internet Course, 8/21-12/2000
- DOJ, Crime Laboratory, Evidence Technician School Training for Field Response Team Wausau, WI 10/9-13/2000
- Promega Corp, 12th Intl Sym. on Human Identification, Biloxi, MS, October 9 - 13, 2001
- Applied Biosystems, September 12, 2002, Chicago, IL
- Future Trends in Forensic DNA Technology, 2002
- FBI Lab for Science System Unit CODIS Users Conference, Arlington VA, November 4-8, 2002
- Gene Codes Forensics, Inc., Ann Arbor, MI, Mitochondrial DNA sequence analysis of samples from the World Trade Center disaster, 3/03 (2 weeks).

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Other Training: continued..

MAFS STR Symposium, Oak Brook, IL. 4/04 (2 days).
15th International Symposium on Human Identification, Phoenix, AZ.
10/04 (4 days). Workshops on Expert Systems, Laboratory
Automation/Robotics, Y-STR DNA Analysis and Low Copy Number
Analysis of DNA. A Promega Users Group Meeting.
GeneMapper® ID Software 3.2 Training, March 23-24, 2006, Risser
Center, Madison, WI

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.

Serology/Chain of Custody 1998-2003 8 times
DNA 2000 - 2005 22 times Field Response/Photo 2003 2 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.

Midwestern Association of Forensic Scientists (MAFS)
American Society of Plant Physiologists
Southwest Working Group on DNA Analysis Methods (SWGDM)
Wisconsin Association for Identification (WAI)

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.

(1) Job Title Forensic Scientist Employer Crime Laboratory-
Madison

Principal Duties: Case analyst in Serology/DNA Unit

Tenure: 1/3/00 - present

(2) Job Title Criminalist III Employer Texas DPS Crime Lab

Principal Duties: In training for crime scene collection, case
analyst and expert witness in Serology/DNA Section.

Tenure: 2/22/99 - 12/17/99

(3) Job Title Senior Research Assoc. Employer UT - M.D.
Anderson Cancer Center

Principal Duties: Performed original research using rodent models
of renal and uterine cancer.

Tenure: 12/98 - 2/99

(4) Job Title Forensic Scientist Employer Crime Laboratory - Milwaukee

Principal Duties: Case analyst in Serology/DNA Unit

Tenure: 3/97 - 11/98

(5) Job Title Assoc. Molecular Biologist Employer Abbott Labs - Diagnostics Div.

Principal Duties: Evaluate and develop technologies for nucleic acid-based clinical diagnostic assays.

Tenure:

(6) Job Title Research Specialist Employer UW-Parkside

Principal Duties: Performed original research investigation plant growth regulators at the molecular level.

Tenure: 9/84 - 6/94

(7) Job Title Laboratory Assistant Employer UW-Parkside

Principal Duties: Cleaned glassware, maintained plant tissue cultures, assisted in on-going research.

Tenure: 181 - 9/84

Other Qualifications: List below any 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.)

Workshop Instructor - UW Parkside; Designed, coordinated and conducted the lab portion of "Molecular Biology - Short Course", a two-week, hands-on workshop on recombinant DNA techniques (6/91, 1 and 6/92, 1 and 6/93 and 6/94).
Adjunct Instructor UW Parkside, taught two sections of Bioscience 101 - undergraduate lab class (spring semester 94).
See attached list of 7 referred articles, 4 contributions to Larger works and 13 abstracts to scientific meeting.

Publications

Refereed Articles

- Ge Jin, Maria C. Davey, John R. Ertl, Rui Chen, Zhu-tian Yu, Steven G. Daniel, Wayne M. Becker and Chong-maw Chen (1998). Interaction of DNA-binding proteins with the 5'-flanking region of a cytokinin-responsive cucumber hydroxypyruvate reductase gene. *Plant Molecular Biology* 38: 713-724.
- Andersen BR, Ge J, Chen R, Ertl JR, Chen CM (1996) Transcriptional regulation of hydroxypyruvate reductase gene expression by cytokinin in etiolated pumpkin cotyledons. *Planta* 198: 1-5.
- Lu LJ, Ertl JR, Chen CM (1992) Transcriptional regulation of nitrate reductase mRNA levels by cytokinin-abscisic acid interactions in etiolated barley leaves. *Plant Physiology* 98: 1255-1260.
- Lu JL, Ertl JR, Chen CM (1990) Cytokinin enhancement of the light induction of nitrate reductase transcript levels in etiolated barley leaves. *Plant Molecular Biology* 4: 585-594.
- Chen CM, Ertl JR, Yang MS, Chang CM (1987) Cytokinin-induced changes in the population of translatable mRNA in excised pumpkin cotyledons. *Plant Science* 52: 169-174.
- Chen CM, Ertl JR, Chang CC (1987) Cytokinin-induced changes in the population of translatable mRNA in excised pumpkin cotyledons. *Plant Science* 52: 169-174.
- Chen CM, Ertl JR, Leisner SM, Chang CC (1985) Localization of cytokinin biosynthetic sites in pea plants and carrot roots. *Plant Physiology* 78: 510-513.

Contributions to larger works

- Chen CM, Ertl JR (1994) Cytokinin biosynthetic enzymes in plants and slime mold. *In* DWS Mok, MC Mok, eds, *Cytokinins: Chemistry, Activity and Function*. CRC Press Ann Arbor.
- Chen CM, Ge J, Andersen BR, Ertl JR (1992) Modulation of plant gene expression by cytokinins (Mini-review). *Australian Journal of Plant Physiology*, 1992 Robertson Symposium, Canberra, Australia.
- Chen CM, Lu JL, Ertl JR, Chovan LE, Salituro JA (1992) Transcriptional regulation of plant gene expression by cytokinin and abscisic acid. *In* M Kaminek, DWS Mok, E Zazimalova, eds, *Physiology and Biochemistry of Cytokinins in Plants*. SPB Academic Publishing, The Hague, The Netherlands.
- Ertl JR (1990) Cytokinins. *In* McGraw-Hill Yearbook of Science and Technology 1991, McGraw-Hill Inc. New York p.89-91.

Publications

Abstracts

- Chong-maw Chen, Ge Jin, Maria C. Davey, John R. Ertl, Rui Chen, Zhu-tian Yu, Steven G. Daniel, and Wayne M. Becker. (1997) Cytokinin modulation of DNA-protein interaction with the upstream region of the cucumber hydroxypyruvate reductase gene. In: 5th International Congress of Plant Molecular Biology, Singapore, abstract # 879.
- Chen C-M., Jin G., Davey MC., Ertl JR., Chen R., Yu, Z-T., Daniel SG., Becker WM. (1997) The effect of cytokinin and light on DNA-protein interactions upstream of the cucumber hpr-A gene. In: The Quadrennial Joint Annual Meeting of the American Society of Plant Physiologists and the Canadian Society of Plant Physiologists, abstract # 826.
- Davey MC, Ertl JR, Chen CM (1994) Biosynthesis of pyrethrins in cultured plantlets of *Chrysanthemum cinerariaefolium*. *Plant Physiology* 105(suppl): 90.
- Ge J, Andersen BR, Chen R, Ertl JR, Chen CM (1993) Transcriptional regulation of hydroxypyruvate reductase transcript by cytokinin in etiolated pumpkin cotyledons. *Plant Physiology* 102(suppl): 129.
- Salituro JA, Ge J, Andersen BR, Ertl JR, Chen CM (1992) Transcriptional regulation of hydroxypyruvate reductase mRNA in etiolated pumpkin cotyledons. *Plant Physiology* 99(suppl): 80.
- Lu JL, Ertl JR, Chen CM (1990) Cytokinin- abscisic acid interaction on nitrate reductase gene expression. *Plant Physiology* 93(suppl): 71.
- Lu JL, Ertl JR, Chen CM (1989) Modulation of the nitrate reductase transcript by cytokinin and abscisic acid in etiolated barley seedlings. *Plant Physiology* 89(suppl): 113.
- Ertl JR, Ballantyne SM, Heinz L, Chang CC, Chen CM (1988) Cytokinin-anticytokinin interaction in poly(A)RNA synthesis in excised pumpkin cotyledons. *Plant Physiology* 86(suppl): 111.
- Chen CM, Ertl JR, Heinz L, Ballantyne SM (1988) Modulation of poly(A)RNA populations by cytokinin and anticytokinin in excised pumpkin cotyledons. 13th International Conference on Plant Growth Substances, Calgary, Alberta, Canada, July 17-22, 1988, abstract #286.
- Chang CC, Ertl JR, Chen CM (1987) Modulation of RNA sequences by cytokinin in pumpkin-cotyledons. *Plant Physiology* 83(suppl): 97.
- Chen CM, Ertl JR, Chang CC (1987) Cytokinin-modulated gene expression. XIV International Botanical Congress, Abstracts, Berlin, July 24-August 1 p.118.
- Chen CM, Ertl JR (1985) Effect of Anticytokinin on Cytokinin and protein synthesis. *Plant Physiology* 77(Suppl): 70.
- Chen CM, Ertl JR, Leisner SM, Chang CC (1984) Localization of cytokinin biosynthetic sites in pea plants. *Plant Physiology* 75(Suppl): 160.