

CURRICULUM VITAE

Berch E. Henry, II

PRESENT POSITION:

Program Director, Forensic DNA Facility, Department of Chemistry and Molecular Biology, **North Dakota State University**, Fargo, North Dakota

Associate Member of the **Graduate Faculty**, Department of Chemistry and Molecular Biology, **North Dakota State University**, Fargo, North Dakota

EDUCATION:

B.S. Biology, 1972
University of Arkansas, Little Rock

M.S. Microbiology, 1975
University of Arkansas Medical Center

Ph.D. Microbiology-Virology, 1979
University of Mississippi Medical Center

FELLOWSHIPS:

12/1/79-12/1/80: Recipient of an **American Cancer Society Postdoctoral Fellowship** at the Cancer Research Center, University of North Carolina, Chapel Hill, NC.

12/1/80-6/30/83: Recipient of an **National Institutes of Health Postdoctoral Fellowship** at the Cancer Research Center, University of North Carolina, Chapel Hill, NC.

CERTIFICATION:

7/97-Present: **Diplomate** of the **American Board of Criminalistics**.

TRAINING AND EXPERIENCE:

11/7/98-6/24/06 **DNA Laboratory Manager and Technical Leader** for the **Las Vegas Metropolitan Police Department**, Las Vegas, NV.

4/15/96-11/6/98: **Forensic Biology Coordinator and Technical Leader**, Alabama Department of Forensic Sciences, Birmingham, AL.

2/3/90-4/15/96: **Criminalist**, Forensic DNA Analysis Section, Forensic Sciences Division, Washoe County Sheriff's Department, Reno, NV.

3/1/92-1/1/99: Member of **Technical Working Group on DNA Analysis Methods (TWGDAM)** sponsored by the United States Dept. of Justice, FBI.

1990-2005: Faculty in the "**Forensic, Medical and Scientific Evidence**" course, The National

- Judicial College, Reno, NV.
- 1990: Faculty in the "**Special Problems in Criminal Evidence**" course, Master's Program, The National Judicial College, Reno, NV.
- 1998: Faculty in the "**Science in the Courtroom**" course, The National Judicial College, Reno, NV.
- 7/1/84-4/15/90 Appointment to **Assistant Professor** in the School of Medicine, School of Veterinary Medicine, University of Nevada, Reno, NV.
- 2/3/90-4/15/96: **Associate Faculty** in the School of Medicine and Cell and Molecular Biology Program, University of Nevada, Reno, NV.
- 4/15/96-11/1/98: **Associate Faculty** in the Forensic Sciences Graduate Program, Department of Criminal Justice, University of Alabama at Birmingham.
- 7/1/83-6/30/84: Appointment to **Research Associate**, Department of Microbiology and Immunology, University of North Carolina Medical School, Chapel Hill, NC.
- 3/1/91-4/15/96: Associate Director of the **DNA Analysis Laboratory**, University of Nevada School of Medicine and Sierra Nevada Laboratories, Reno, NV.
- 3/18/90-4/13/90: Graduate course in "**Forensic Application of DNA Typing Methods**", FBI Academy, Quantico, VA and the University Of Virginia Graduate School.
- 6/9/91-6/14/91: Attendance at the "**Advanced Forensic DNA Typing School**" United States Dept. of Justice, FBI Academy, Quantico, VA.
- 7/8/93: Invited speaker at the **Five States Judges Conference** on the topic of "DNA in Forensic Science" in Bismarck, ND sponsored by the National Judicial College.
- 1/8/91-1/11/91: Invited speaker on "**DNA Technology and Its Application to Forensic Science**", Judges Seminar, Nevada Judges Assoc.
- 1/19/94: Invited speaker at the "**Idaho State Judges Conference**", Boise, ID.
- 6/21/90: Invited speaker on the "**Forensic Uses of DNA Technology**" at the Nevada District Attorney's Association, Reno, NV.
- 5/20/98-5/22/98: Invited speaker on **STR Training Methods** at "**STRs - The Next Generation**", Florida Dept. of Law Enforcement, DNA Training Session IV.
- 11/16/01: Invited speaker on "**Forensic DNA**" at the **Oklahoma State Judges Conference**, Tulsa, OK.
- 9/11/08: Invited speaker on "**Forensic DNA Topics**" at the **North Dakota State Bench and Bar Conference**, Bismarck, ND.

Selected Expert Witness Testimony

State of **Idaho** vs. Odiaga
Fifth Judicial District
Offense - **Homicide**
August, 1991

State of **Washington** vs. Johnson
Superior Court, King County
Offense - **Homicide**
February, 1992

State of **Washington** vs. Jones
Superior Court, King County
Frye Hearing - DNA
May, 1992

State of **Nevada** vs. Simmons
Third Judicial District
Offense - **Homicide (PCR)**
June, 1993

State of **Nevada** vs. Robinson
Second Judicial District
Offense - **Assault**
October, 1993

State of **Washington** vs. Dyer
Superior Court, King County
Offense - **Homicide**
February, 1994

State of **Alaska** vs. Mercurief
Third Judicial District
Offense - **Sexual Assault**
February, 1994

State of **California** vs. Wilson
Superior Court, Mono County
Offense - **Sexual Assault**
May, 1994

State of **Nevada** vs. Standen
Second Judicial District
Offense - **Homicide (PCR)**
October, 1994

State of **Nevada** vs. Gentry
Fourth Judicial District
Offense - **Sexual Assault**
September, 1991

State of **Washington** vs. Copeland
Superior Court, King County
Offense - **Homicide**
March, 1992

State of **Idaho** vs. Barajas
Third Judicial District
Offense - **Homicide**
February, 1993

State of **Nevada** vs. Cortinas
Third Judicial District
Offense - **Sexual Assault**
August, 1993

State of **Washington** vs. Dyer
Superior Court, King County
Frye Hearing - DNA
November, 1993

State of **Alaska** vs. Prater
First Judicial District
Offense - **Sexual Assault**
February, 1994

State of **Nevada** vs. Sears
Second Judicial District
Offense - **Sexual Assault (PCR)**
April, 1994

State of **Nevada** vs. Standen
Second Judicial District
Offense - **Homicide (PCR)**
September, 1994

State of **Nevada** vs. Vela
Third Judicial District
Offense - **Sexual Assault**
October, 1994

Expert Testimony Con't

State of **Nevada** vs. Gillman
Fourth Judicial District
Offense - **Sexual Assault**
May, 1995

State of **Nevada** vs. Middleton
Second Judicial District
Offense - **Homicide** (PCR/RFLP)
July, 1995

State of **Nevada** vs. Middleton
Second Judicial District
Offense - **Homicide** (PCR/RFLP)
September, 1997

State of **Alabama** vs. Hammonds
Twentieth Judicial Circuit
Offense - **Homicide**
November, 1997

State of **Nevada** vs. Honeycutt
Eighth Judicial District
Offense - **Sexual Assault** (STR, Identity)
September, 1999

State of **Nevada** vs. Wheaton
Eighth Judicial District
Offense - **Homicide**
December, 2000

State of **Nevada** vs. Bacon
Eighth Judicial District
Offense - **Sexual Assault**
February, 2005

State of **Nevada** vs. Beltran
Eighth Judicial District
Offense - **Homicide**
May, 2005

State of **Nevada** vs. Lopez
Eighth Judicial District
Offense - **Attempt Homicide**
February, 2006

State of **Nevada** vs. Nika
Second Judicial District
Offense - **Homicide** (PCR/RFLP)
July, 1995

State of **Alabama** vs. Dubose
Twenty-First Judicial Circuit
Admissibility (Perry) Hearing - DNA
July, 1997

State of **Alabama** vs. Hammonds
Twentieth Judicial Circuit
Admissibility (Perry) Hearing - DNA
October, 1997

State of **Nevada** vs. Thompson
Eighth Judicial District
Offense - **Homicide**
November, 1997

State of **Nevada** vs. Murphy/Tabish
Eighth Judicial District
Offense - **Homicide**
April, 2000

State of **Nevada** vs. Walker
Eighth Judicial District
Offense - **Homicide**
February, 2005

State of **Nevada** vs. Johnson
Eighth Judicial District
Offense - **Homicide**
April, 2005

State of **Nevada** vs. Walker
Eighth Judicial District
Offense - **Homicide**
November, 2005

PUBLICATIONS

BOOK CHAPTERS/SYMPOSIUM PROCEEDINGS:

O'Callaghan, D.J., **B. E. Henry**, S. A. Dauenhauer, J. H. Wharton and R. A. Robinson (1979). The genomes of equine herpesvirus in Herpesvirus DNA: Studies on the organization and replication of the viral genome. Ed. Y. Becker. Marhnus Nijoff. The Hague, Netherlands.

Pagano, J. S. and **B. E. Henry** (1983). The Epstein-Barr virus: Biochemistry and relationship to human malignancy. Ed. L. Phillips. Marcel Dekker, New York, NY.

Henry, B.E., Rogers, G.S., Mauterer, C., Dodd, D.K. and Hicks, J.W. (1997). Technical evaluation of databanking methods. Proceedings of the Eighth International Symposium on Human Identification. Promega Corporation. 1998

PAPERS:

Cohen, J.D., **Henry, B.E.**, Randall, C.C. and O'Callaghan, D.J. (1978). Ribonucleotide reductase activity in hydroxyurea-resistant herpesvirus replication. Proc. Soc. Exp. Biol. Med. 155: 395-399.

Henry, B.E., Glaser, R., Hewetson, J. and O'Callaghan, D.J. (1978). Altered ribonucleotide reductase activity associated with the replication of Epstein-Barr virus. Virology 89: 262-271.

Soloff, B.L., Rado, T.A., **Henry, B.E.**, and Bates, J.H. (1978). Biochemical and morphological characterization of mycobacteriophage R1. J. Virol. 25: 253-262.

Henry, B.E., Newcomb, W.W. and O'Callaghan, D.J. (1979). Biological and biochemical properties of defective interfering (DI) particles of equine herpesvirus type 1 (EHV-1). Virology 92: 495-506.

Robinson, R.A., **Henry, B.E.**, Duff, R.G. and O'Callaghan, D.J. (1980). Oncogenic transformation by equine herpesvirus (EHV). I. Hamster cells transformed by UV-irradiated EHV-1. Virology 101: 335-362.

Henry, B.E., Newcomb, W.W. and O'Callaghan, D.J. (1980). Alteration of viral protein synthesis and nucleocapsid production in infection with defective interfering (DI) particles of EHV-1. J. Gen. Virol. 47: 343-353.

Feighny, R.J., **Henry, B.E.**, Datta, A.K. and Pagano, J.S. (1980). Induction of DNA polymerase activity after superinfection of Raji cells with Epstein-Barr (EBV) virus. Virology 107: 415-425.

Feighny, R.J., **Henry, B.E.** and Pagano, J.S. (1980). Epstein-Barr virus polypeptides: Effect of inhibition of viral DNA replication on their synthesis. J. Virol. 37: 61-71.

Wharton, J.H., **Henry, B.E.** and O'Callaghan, D.J. (1981). Equine cytomegalovirus: Cultural characteristics and properties of the viral DNA. Virology 109: 106-119.

Henry, B.E., Robinson, R.A., Dauenhauer, S.A., Atherton, S.A., Hayward, G.S. and O'Callaghan, D.J.

(1981). Structure and organization of the genome of equine herpesvirus type 1 (EHV-1). Virology **115**: 97-114.

Feighny, R.J., **Henry, B.E.** and Pagano, J.S. (1981). Epstein-Barr virus (EBV) DNase and the reutilization of DNA degradation products in virus replication. Virology **115**: 395-400.

Henry, B.E., Raab-Traub, N. and Pagano, J.S. (1983). Detection of autonomous replicating sequences in the genome of Epstein-Barr virus. Proc. Natl. Acad. Sci. USA. **80**: 1096-1100.

Raab-Traub, N., Hood, R., Yang, C.S., **Henry, B.E.** and Pagano, J.S. (1983). Epstein-Barr virus (EBV) transcription in nasopharyngeal carcinoma. J. Virol. **48**: 580-590.

Henry, B.E., Ota, R. and Evermann, J.F. (1986). The genetic relatedness of disease associated field isolates of bovine herpesvirus type 4 (BHV-4). Amer. J. Vet. Res. **47**: 2242-2246.

Ablishi, D., Zompetta, C., Lease, C., Josephs, S., Balachandran, N., Komaroff, A., Krueger, G., **Henry, B.**, Luka, J. and Salahuddin, S. (1989). Human Herpesvirus type 6 (HHV-6) and Chronic Fatigue Immune Deficiency Syndrome (CFIDS). In: Proceedings of the Chronic Fatigue Syndrome Workshop. Editor: Central Public Health Laboratory, Toronto, Canada.

Josephs, S.F., **Henry, B.E.**, Balachandran, N., Strayer, D., Peterson, D., Komaroff, A.L. and Ablishi, D.V. (1991). Human Herpesvirus type 6 (HHV-6) reactivation in chronic fatigue syndrome. Lancet. **337**: 1346-1347.

Daugherty, S.A., **Henry, B.E.**, Peterson, D.A., Swartz, R.L., Bastien, S. and Thomas, R.S. (1991). Chronic fatigue syndrome in northern Nevada. Review of Infectious Disease. **12**: 46-50. NIH and Univ. of Pitt. Sch. of Med.

Buchwald, D., Cheney, P., Peterson, D., **Henry, B.**, Wormsley, S., Geiger, B., Ablishi, D., Salahuddin, S., Saxinger, C., Biddle, R., Kikinis, R., Jolesz, F., Folks, T., Balachandran, N., Gallo, R. and Komaroff, A. (1992). Illness characterized by fatigue, neurologic and immunologic disorders: Association with human herpesvirus type-6 (HHV-6). Annals of Internal Medicine. **116**: 103-113.

Shipp, E., Roelofs, R., Togneri, E., Wright, R., Atkinson, D. and **Henry, B.** (1993). Effects of argon laser light, alternate light source and cyanoacrylate fuming on DNA typing of human bloodstains. Journal of Forensic Science. **38**: 184-191.

Strayer, D., Carter, W., Strauss, K., Brodsky, I., Suhadolnik, R., Ablishi, D., **Henry, B.**, Mitchell, W., Bastien, S., and Peterson, D. (1994). Long term improvements in patients with chronic fatigue syndrome (CFIDS) treated with amplitgen. J. Chronic Fatigue Syndrome. **1**: 35-53.

Suhadolnik, R.J., Reichenbach, N.L., Hitzges, P., Sobol, R.W., Peterson, D.L., **Henry, B.E.**, Ablishi, D.V., Carter, W.A. and Strayer, D.R. (1994). Upregulation of the 2-5A Synthetase RNase L antiviral pathway associated with chronic fatigue syndrome (CFIDS). Clinical Infect. Diseases. **18**: 96-104.

Romero, R.L., Juston, A.C., Ballantyne, J. and **Henry, B.E.** (1997). The applicability of formalin fixed and formalin fixed paraffin embedded tissues in forensic DNA analysis. Journal of Forensic Science : **42**: 708-714.

ABSTRACTS:

National and International:

Henry, B.E., Rado, T.A. and Bates, J.H. (1975). Characterization of nucleic acids and lipids from mycophage R1. Amer. Soc. Microbiol., New York, NY.

Henry, B.E., Rado, T.A. and Bates, J.H. (1975). Morphological and biochemical characterization of mycobacteriophage R1. Amer. Can. Thoracic Soc., Montreal, Canada.

Henry, B.E., Newcomb, W.M., Randall, C.C. and O'Callaghan, D.J. (1977). Biochemical characterization of DI particles of EHV-1. Amer. Soc. Micro., New Orleans, LA.

Vance, R., Robinson, R., **Henry, B.E.** and O'Callaghan, D. (1978). Herpes oncogenesis and persistence with inactive virus/DI particles. Proc. Amer. Fed. Clin. Res., New Orleans, LA.

O'Callaghan, D.J., **Henry, B.E.**, Vance, R.B., Randall, C.C. and Robinson, R.A. (1978). Transformation with DI particles of EHV-1. Inter. Herpes. Workshop, Cambridge, England.

Wharton, J.H., **Henry, B.E.** and O'Callaghan, D.J. (1978). Biological and physicochemical properties of equine cytomegaloviruses. Amer. Soc. Microbiol., Las Vegas, NV.

Robinson, R.A., **Henry, B.E.**, Vance, R.B. and O'Callaghan, D.J. (1979). Herpesvirus oncogenesis: transformation by inactive virus or DI particles. Proc. Assoc. Can. Res. 20: 139.

Henry, B.E., Hayward, G.S., Dauenhauer, S.D. and O'Callaghan, D.J. (1979). Structure of the genome of equine herpesvirus type 1. Fed. Proc. 38: 814.

Vance, R.B., Robinson, R., **Henry, B.E.** and O'Callaghan, D. (1978). Clin. Res. 26: 777.

Henry, B.E., Dauenhauer, S.A., Wharton, J.H. and O'Callaghan, D.J. (1979). Molecular structure of the genomes of standard virus and defective interfering (DI) particles of EHV type 1 and type 2. Proc. Inter. Herpesvirus Workshop, Cold Spring Harbor, NY.

Robinson, R.A., **Henry, B.E.** and O'Callaghan, D.J. (1979). EHV-1 DNA sequences in transformed and tumor cells. Proc. Inter. Herpesvirus Workshop, Cold Spring Harbor, NY.

Wharton, J.H., **Henry, B.E.**, Robinson, R.A. and O'Callaghan, D.J. (1980). Properties of EHV-2: DNA cleavage map. Proc. Int. Conf. Human Herpesviruses, Atlanta, GA.

Dauenhauer, S.A., Robinson, R.A., **Henry, B.E.** and O'Callaghan, D.J. (1980). Defective interfering (DI) particles of EHV-1: Genomic structure and the possible role in persistent infection and oncogenic transformation. Proc. Amer. Soc. Microbiol., Miami, FL.

Henry, B.E., Feighny, R.J. and Pagano, J.S. (1980). An Epstein-Barr virus DNase activity in superinfected Raji cells. Proc. Inter. Herpesvirus Workshop, Cold Spring Harbor, NY.

Feighny, R.J., **Henry, B.E.** and Pagano, J.S. (1980). EBV proteins: Identification, synthesis, glycosylation and phosphorylation. Proc. Inter. Herpes. Workshop, Cold Spring Harbor, NY.

Henry, B.E., Raab-Traub, N.J. and Pagano, J. (1982). Number and location of autonomously replicating sequences (ARS) sequences in DNA of EBV virus. Proc. Inter. Herpes. Workshop, Cold Spring Harbor, NY.

Raab-Traub, N.J., Hood, R., **Henry, B.E.**, Yang, C. and Pagano, J.S. (1983). Epstein-Barr virus (EBV) transcription in nasopharyngeal carcinoma (NPC) tissues. Proc. Inter. Herpes. Workshop, Oxford, England.

Henry, B.E., Raab-Traub, N.J. and Pagano, J.S. (1983). Transfection of human cells with Epstein-Barr virus (EBV) DNA fragments autonomously replicated in yeast. Proc. Inter. Herpes Workshop, Oxford, England.

Evermann, J., Kennedy, T., Cheevers, P., **Henry, B.E.** and Barrett, D. (1985). The molecular epidemiology of Bovine Herpesvirus type 1 (BHV-1) infections. 28th Conf. of Animal Lab. Diag., Milwaukee, WI.

Evermann, J.F., **Henry, B.E.**, Kennedy, T. and Cheevers, P. (1986). Differentiation of Bovine Herpesvirus type 1 (BHV-1) and Bovine Herpesvirus type 4 (BHV-4) by restriction analysis. IV: Inter. Symp. Vet. Lab. Diag., Amsterdam, NL.

St. Jeor, S.C., Kersten, A., Ram, D. and **Henry, B.E.** (1986). Recombination of human Cytomegalovirus (CMV) DNA into the Thymidine Kinase (TK) gene of HSV-1. XI: Internat. Herpesvirus Workshop, Leeds, U.K.

Daugherty, S.A. and **Henry, B.E.** (1988). Preliminary evidence of infection with Human Herpesvirus type 6 (HHV-6) in patients with chronic fatigue syndrome (CFIDS) in Nevada. Chronic Fatigue Syndrome Workshop, Pittsburg, PA.

Brothers, A.J., Ota, R., Douglass, K. and **Henry, B.E.** (1989). Expression of proto-oncogene *c-fos* during *Xenopus* neural induction. Society for Developmental Biology, Berkeley, CA.

Shipp, E., Roelofs, R., Togneri, E., Wright, R., Atkinson, D. and **Henry, B.** (1993). Effects of fingerprint enhancement techniques on DNA analysis by restriction fragment length polymorphism and polymerase chain methods. Forensic DNA Symposium, Quantico, VA.

Stacks, B.L., Romero, R.L. and **Henry, B.E.** (1996). Potential sample sources for DNA typing methods. American Academy of Forensic Sciences, Nashville, TN.

Hicks, J.W., Rogers, G.S. and **Henry, B.E.** (1996). The Alabama convicted offender DNA database. Conference on the Human Genome Project, Tuskegee University, Tuskegee, AL.

Rogers, G., Hicks, J., Mauterer, C., Dodd, D. and **Henry, B.E.** (1997). Development of a buccal swab kit for collection of DNA database samples. Proceedings Eighth International Symposium on Human Identification, Promega Corporation. Scottsdale, AZ.