

Curriculum Vitae

Donald J. Johnson

California State University, Los Angeles
School of Criminal Justice and Criminalistics
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Current Position:

Associate Professor, September 2003 to Present
School of Criminal Justice and Criminalistics
California State University, Los Angeles

Degrees and Licensure:

- M.S. Degree and Degree of Ph.D. Candidate in Anatomy, UCLA School of Medicine, 1989
- B.S. in Biology, California State University, Los Angeles, 1984
- Licensed Commercial Pilot, Federal Aviation Administration, 1998
Ratings in helicopter, airplane, and glider
- Licensed Embalmer, Cypress College of Mortuary Science, 1980

Professional Experience:

Senior Criminalist, March 1989 - March 2003

Los Angeles County Sheriff's Department

Responsibilities included:

- Crime scene investigations and reconstructions
- Bloodstain pattern interpretation
- Conventional serological examinations
- PCR-based STR analysis (ASCLD/LAB qualified DNA analyst)
- Cytological and histological examinations
- Court testimony

Student Professional Worker, September 1982 - September 1984

Los Angeles County Department of Coroner

Primary Duties: Assisted in the preparation and analysis of biological and non-biological material by light and scanning electron microscopy

Autopsy Technician, September 1979 - September 1981

Glendale Memorial Hospital and Burbank Community Hospital

Primary Duties: Assisted in postmortem examinations

Funeral Director and Embalmer, September 1978 - August 1982

Woods Glendale Mortuary

Primary Duties: Prepared human remains for funeral services

Autopsy Technician, March 1976 - August 1978

Medical College of Ohio at Toledo/Lucas County Coroner's Office

Primary Duties: Assisted in the postmortem examinations of hospital patients and coroner's cases

Teaching Experience:

Courtroom and Legal Issues in Criminalistics – California State University, Los Angeles, 2004 – 2008

Crime Scene Management – California State University, Los Angeles, 2004 – 2007

Crime Scene Reconstruction – California State University, Los Angeles, 2003 – 2008

Death Investigations – California State University, Los Angeles, 2004, 2005, and 2007

Ethics and Professional Responsibility – California State University, Los Angeles, 2003

Forensic Serology and DNA Analysis – California State University, Los Angeles, 2004 – 2007

Interpretation of Evidence in the Courtroom – California State University, Los Angeles, 2004 – 2007

Personal Identification Systems – California State University, Los Angeles, 2003 - 2008

Sex Crimes and Physical Evidence – California State University, Los Angeles, 2004 – 2007

Forensic Examination of Sexual Assault Evidence – California Criminalistics Institute, 1994

Histology for Dental Students – University of California, Los Angeles, 1987

Entering Medical Class Prologue – University of California, Los Angeles, 1987

Medical Gross Anatomy – University of California, Los Angeles, 1987

Entering Medical Class Prologue – University of California, Los Angeles, 1986

Medical Gross Anatomy – University of California, Los Angeles, 1985

Anatomy and Physiology – California State University, Los Angeles, 1983 and 1984

Continuing Education:

DNA Awareness Educational Forum – The Los Angeles County District Attorney's Criminal Justice Institute, 2006 – 2008

Hertzberg-Davis Forensic Science Center Continuing Education Seminar Series – California State University, Los Angeles, 2008

Generating DNA Profiles from Difficult Samples Workshop – Promega 18th International Symposium on Human Identification, 2007

Principles of Forensic DNA for Officers of the Court – Los Angeles County Public Defenders Office, 2006

Academic Advisement for At-Risk Students Workshop – California State University, Los Angeles, 2004

Academic Program Advisement and Academic Assistance Faculty Workshop – California State University, Los Angeles, 2003

Technical Writing for the Forensic Specialist – Los Angeles County Sheriff's Department, 2002

Statistics in DNA Analysis – Los Angeles County Sheriff's Department, 2002

DNA-PCR: Short Tandem Repeat Analysis, Applied Biosystems, 1999

DNA-PCR: Short Tandem Repeat Analysis, California Criminalistics Institute, 1999

Statistics in DNA Analysis, California Criminalistics Institute, 1998

DNA Polymerase Chain Reaction, California Criminalistics Institute, 1998

DNA Extraction and Quantification, California Criminalistics Institute, 1998

Forensic Bloodstain Pattern Interpretation, California Criminalistics Institute, 1996

Pathology of Wounds, California Criminalistics Institute, 1994

Crime Scene Investigation II, California Criminalistics Institute, 1994

Forensic Serology, California Criminalistics Institute, 1992

Professional Affiliations (Past and Present*):

- American Academy of Forensic Science*
- American Association of Anatomists
- American Society of Criminology*
- California Association of Criminalists*
- California Forensic Science Institute*
- Society for Neuroscience
- The Association for Research in Vision and Ophthalmology

Additional Professional Activities:

Coordinating Councilman of the California Forensic Science Institute, September 2003 to present.

Coordinator of the California Forensic Science Institute DNA In-Service Training Working Group, September 2003 to present.

Guest Speaker on Forensic Science

Consultant on Forensic Science Casework

Guest reviewer: *Journal of Forensic Sciences*, Volume 40, 1995

Forensic Science Policy & Management: An International Journal, 2009

Awards and Honors:

National Institute of Justice Training Grant: DNA Training Enhanced Delivery and Development Program (2009)

National Institute of Justice Research Grant (2007-DN-BX-K172): Investigations on the use of SampleMatrix™ to Capture and Stabilize Crime Scene Biological Samples for Optimized Analysis and Room Temperature Storage (2007)

Unit Commander's Service Award, Los Angeles County Sheriff's Department, Scientific Services Bureau, 1998

Commendation for Quality Service, Los Angeles County Sheriff's Department Detective Division, 1996

National Institute of Mental Health Student Fellowship, University of California, Los Angeles, 1988

Bob Hope Fight for Sight Student Fellowship, University of California, Los Angeles, 1987

Dean's List, California State University, Los Angeles, 1983, 1982, and 1981

Ebell Scholarship, California State University, Los Angeles, 1982

Okum Alumni Scholarship, California State University, Los Angeles, 1982

President's List, Cypress College, 1979; Dean's List, Cypress College, 1978

Current Research Activities:

- Investigations on the use of SampleMatrix™ to capture and stabilize crime scene biological samples for optimized analysis and room temperature storage
- Investigations on the use of high-resolution DNA melting curve analysis as a genetic screening tool for crime scene samples
- Investigations on the impact of the forensic sciences on the criminal justice system
- Investigations on the recovery and typing of human nuclear and mitochondrial DNA from low-level samples
- Investigations on the recovery of embryonic and fetal tissue from abortions in rape cases

Publications in Peer-Reviewed Journals:

Johnson DJ, Calderaro AC, Roberts, KA (2007) Variation in Nuclear DNA Concentrations during Urination. **J Forensic Sci** 52:110-113.

Johnson DJ, Martin LR, Roberts, KA (2005) STR-typing of human DNA from human fecal matter using the QIAGEN QIAamp[®] Stool Mini Kit. **J Forensic Sci** 50:802-808.

White CA, Chalupa LM, Johnson DJ, Brecha NC (1990) Somatostatin-immunoreactive cells in the adult cat retina. **J Comp Neurol** 293 (1):134-50.

Mantyh PW, Johnson DJ, Boehmer CG, Catton MD, Vinters HV, Mattio JE, Too H-P, Vigna SR (1989) Substance P receptor binding sites are expressed by glia in vivo after neuronal injury. **Proc Natl Acad Sci USA** 86:5193-97.

Brecha NC, Johnson DJ, Peichl L, Wassle H (1988) Cholinergic amacrine cells of the rabbit retina express GABA and GAD immunoreactivity. **Proc Natl Acad Sci USA** 85:6187-91.

Muchlinski AE, Johnson DJ, Anderson, DG (1988) Electron microscope study of the association between hypothalamic blood vessels and oxytocin-like immunoreactive neurons. **Brain Res Bulletin** 20:267-71.

Brecha NC, Johnson DJ, Bolz J, Sharma S, Parnavelas JG, Lieberman AR (1987) Substance P immunoreactive ganglion cells and their axon central terminals in the rabbit. **Nature** 327:155-58.

Muchlinski AE, Johnson DJ (1983) Avian pancreatic polypeptide-like immunoreactivity in the ground squirrel hypothalamus. **Brain Res Bulletin** 11:405-10.

Abstracts:

Roberts KA and Johnson DJ (2008) Investigations on the use of SampleMatrix™ to capture and stabilize crime scene biological samples for optimized analysis and room temperature storage. Promega 19th International Symposium on Human Identification, Hollywood, California.

Cabral M, Chan D, Johnson DJ, Roberts KA (2008) The recovery of mitochondrial DNA from the attached side of self-adhesive stamps. Promega 19th International Symposium on Human Identification, Hollywood, California.

Roberts KA, Johnson DJ, Wong A (2008) An evaluation of the stability of seminal fluid when stored in condoms. Promega 19th International Symposium on Human Identification, Hollywood, California.

Johnson D and Peterson J (2008) Forensic science evidence and sexual violence. NIJ

Sexual Violence Research Workshop, Arlington, Virginia.

Kowalski AN, Quinones EJ, Roberts KA, Johnson DJ, Wong GK (2007) The recovery of DNA from biological stains submerged in salt water. American Academy of Forensic Science 59th Annual Meeting, San Antonio, Texas.

Sewell KL, Johnson DJ, Matthies LK, Roberts KA (2007) Analysis of nuclear DNA from exploded bomb fragments and spent cartridge casings. American Academy of Forensic Science 59th Annual Meeting, San Antonio, Texas.

Muller R, Muller-Cohn J, de Rozières S, Guroff S, Hadino GM, Johnson DJ, Roberts KA (2007) Evaluation of dissolvable SampleMatrix® for long-term room temperature storage of forensic DNA: advantage for trace sample recovery. Promega 18th International Symposium on Human Identification, Hollywood, California.

Kowalski AN, Quinones EJ, Roberts KA, Johnson DJ, Wong GK (2006) A comparison of the recovery of mitochondrial and nuclear DNA from biological stains submerged in salt water. Promega 17th International Symposium on Human Identification, Nashville, Tennessee.

Nguyen Q, Johnson D, Buoncristiani M, Hardy R (2006) High-resolution DNA melting curve analysis to establish STR genotypic identity. Promega 17th International Symposium on Human Identification, Nashville, Tennessee.

Sewell KL, Johnson DJ, Matthies LK, Roberts KA (2006) STR analysis of human DNA from exploded bomb fragments and spent cartridge casings. Promega 17th International Symposium on Human Identification, Nashville, Tennessee.

Cruz SL, Roberts KA, Johnson DJ, Fisher BAJ (2005) A comparison of the effectiveness of swabs and floss as a means of recovering spermatozoa from the oral cavity. California Association of Criminalists 105th semi-annual seminar, Ventura, California.

Cruz SL, Roberts KA, Johnson DJ, Fisher BAJ (2005) A comparison of the effectiveness of swabs and floss in recovering spermatozoa from the oral cavity. International Association of Forensic Sciences 17th Meeting, Hong Kong China.

Johnson DJ (2005) Introduction to the forensic analysis of human abortion products and fecal matter. California Association of Criminalists 106th semi-annual seminar, Los Angeles, CA.

Johnson DJ (1999) Recovery of the products of conception from induced and spontaneous abortions in rape cases. International Association of Forensic Sciences 15th triennial meeting, Los Angeles, CA.

Johnson DJ and Linhart RR (1994) Recovery of the products of conception from induced

and spontaneous abortions in rape and incest cases. California Association of Criminalists Forensic Science Society 84th semi-annual seminar, Pasadena, CA.

Johnson DJ (1990) in *Microgram* (ed. Gunn JW, Jr.) XXIII:46 (US Department of Justice, Washington DC)

Johnson DJ, Brecha NC, Peichl L, Wassle H (1988) Localization of GABA- and GAD-like immunoreactivity in cholinergic amacrine cells of the rabbit retina. *Invest Ophthalmol Vis Sci Suppl* 29:272.

Rickman D, Johnson DJ, Brecha NC (1988) Ontogeny of somatostatin immunoreactive (SRIF-I) cells in the rabbit retina. *Invest Ophthalmol Vis Sci Suppl* 29:196.

White CA, Johnson DJ, Chalupa LM, Brecha NC (1988) Characterization of somatostatin-like immunoreactive cells in the adult cat retina. *Soc Neurosci Abs* 14:1121.

White CA, Johnson DJ, Chalupa LM, Brecha NC (1988) Somatostatin immunoreactive (SRIF-I) in the adult cat retina. *Invest Ophthalmol Vis Sci Suppl* 29:196.

Zimmerman RP, Gates TS, Boehmer CG, Johnson DJ, Mantyh PW (1988) In situ demonstration that substance P receptors are expressed by glia after neuronal injury. *Soc Neurosci Abs* 14:981.

Brecha NC, Johnson DJ, Peichl L, Wassle H (1987) Cholinergic amacrine cells of the rabbit retina express GABA and GAD immunoreactivity. *Soc Neurosci Abs* 85:6187-91.

Johnson DJ and Brecha NC (1987) The ontogeny of substance P retinofugal innervation of the dorsal lateral geniculate nucleus of the postnatal rabbit. *Soc Neurosci Abs* 13:1536.

Brecha NC, Johnson DJ, Lieberman AR, Parnavelas JG (1986) Central projections of substance P-containing ganglion cells in the rabbit retina. *Soc Neurosci Abs* 12:1036.

Brecha NC, Johnson DJ, Bolz J, Sharma S, Parnavelas JG, Lieberman AR (1986) Substance P immunoreactive ganglion cells and their axon central terminals in the rabbit. *Structure et Fonction dans le System Visuel*, Lyon.

Johnson DJ, Yoser S, Brecha NC (1986) Substance P-like immunoreactivity in the central visual pathways of the rabbit. *Anat Rec* 214:61 A.

Rickman D, Johnson DJ, Brecha NC (1986) Distribution and colocalization of substance P and somatostatin immunoreactive cells in the rabbit retina. *Structure et Fonction dans le Systeme Visual*, Lyon.