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Research interests

Developing methods to accurately estimate the age of a body fluid stain recovered from a crime scene through an analysis of degradation of RNA as well as cyclic patterns of gene expression that follow a circadian rhythm. Identifying nucleotide sequence variations in genes associated with cardiac function that may underly incidents of sudden unexplained death.

Employment

School of Forensic Sciences

Oklahoma State University Center for Health Sciences
31 Aug 2001 → present

Research outputs

A method to estimate the age of bloodstains using quantitative PCR

Fu, J. & Allen, R., 1 Mar 2019, In : *Forensic Science International: Genetics*. 39, p. 103-108 6 p.

Exploration of single nucleotide polymorphisms (SNPs) within four genes involved with cardiac function and their association with sudden unexplained death.

Allen, R., Pritchard, J. K., Payton, M. E. & Fu, J., 2019, In : *Oklahoma State Medical Proceedings*. 1, 4

Parentage and relationship testing

Allen, R. & Polesky, H. F., 1 Jan 2016, *Molecular Pathology in Clinical Practice: Second Edition*. Springer International Publishing, p. 811-821 11 p.

Parentage Testing and Kinship Analysis

Allen, R. & Pritchard, J., 4 Nov 2015, *Encyclopedia of Forensic and Legal Medicine: Second Edition*. Elsevier Inc., p. 632-643 12 p.

Evaluation of Degradation in DNA from Males with a Quantitative Gender Typing, Endpoint PCR Multiplex

Smith, B. C., Vandegrift, E., Fuller, V. M. & Allen, R., 1 Jan 2015, In : *Journal of Forensic Sciences*. 60, 2, p. 399-408 10 p.

Parentage Testing and Kinship Analysis

Allen, R., 1 Jan 2013, *Encyclopedia of Forensic Sciences: Second Edition*. Elsevier Inc., p. 287-294 8 p.

Method: a single nucleotide polymorphism genotyping method for Wheat streak mosaic virus

Rogers, S. M., Payton, M., Allen, R., Melcher, U., Carver, J. & Fletcher, J., 17 May 2012, In : *Investigative Genetics*. 3, 1, 10.

Prevalence and predictors of anemia in a population-based study of octogenarians and centenarians in Georgia

Haslam, A., Hausman, D. B., Johnson, M. A., Davey, A., Poon, L. W., Allen, R. H. & Stabler, S. P., 1 Jan 2012, In : *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*. 67 A, 1, p. 100-106 7 p.

Identification Through DNA Analysis in Criminal and Family-Relatedness Investigations

Allen, R., 1 Dec 2010, *Molecular Diagnostics*. Elsevier Inc., p. 381-398 18 p.

Molecular assay for screening and quantifying dna in biological evidence: The modified Q-tat assay

Wilson, J., Fuller, V., Benson, G., Juroske, D., Duvall, E., Fu, J., Pritchard, J. & Allen, R. W., 1 Jul 2010, In : Journal of Forensic Sciences. 55, 4, p. 1050-1057 8 p.

Population data for 15 STR loci (Identifiler[®] kit) in a Filipino population

Smith, B. G., Lee, B., Budowle, B. & Allen, R., 1 May 2009, In : Legal Medicine. 11, 3, p. 159-161 3 p.

The importance of peer review in maintaining the quality of accreditation for the evolving field of family relatedness testing

Pritchard, J. K., Ku, D. H., Harman, K. & Allen, R., 1 Jul 2008, In : Transfusion. 48, 7, p. 1517-1519 3 p.

Identification through typing of DNA recovered from touch transfer evidence: Parameters affecting yield of recovered human DNA

Allen, R., Pogemiller, J., Joslin, J., Gulick, M. & Pritchard, J., 1 Jan 2008, In : Journal of Forensic Identification. 58, 1, p. 33-41 9 p.

Considerations for the interpretation of STR results in cases of questioned half-sibship

Allen, R. W., Fu, J., Reid, T. M. & Baird, M., 1 Mar 2007, In : Transfusion. 47, 3, p. 515-519 5 p.

Quantitation of human genomic DNA through amplification of the amelogenin locus

Allen, R. & Fuller, V. M., 1 Jan 2006, In : Journal of Forensic Sciences. 51, 1, p. 76-81 6 p.

Resolution of a serum sample mix-up through the use of short tandem repeat DNA typing

Allen, R. & Pritchard, J. K., 1 Dec 2004, In : Transfusion. 44, 12, p. 1750-1754 5 p.

Characteristics of D5S818 mutations revealed through study of a flanking marker

Edwards, M. & Allen, R., 1 Apr 2004, In : International Congress Series. 1261, C, p. 33-35 3 p.

eDNA: Networking software tailored for identity testing laboratories

Allen, R., Harman, K. & Sieker, A., 1 Apr 2004, In : International Congress Series. 1261, C, p. 118-120 3 p.

Phenotype versus genotype reporting for DNA polymorphisms

Harrison, C., Allen, R., Eisenberg, A., Polesky, H., Roby, R., Te Young, C., Walker, R. & Zeagler, D., 1 Apr 2004, In : International Congress Series. 1261, C, p. 526-528 3 p.

Proficiency testing programs for DNA typing laboratories offered by the College of American Pathologists

Allen, R. W., Roby, R. K., Harrison, C., Eisenberg, A. J. & Polesky, H. F., 1 Apr 2004, In : International Congress Series. 1261, C, p. 121-123 3 p.

Characteristics of mutations at the D5S818 locus studied with a tightly linked marker

Edwards, M. & Allen, R., 1 Jan 2004, In : Transfusion. 44, 1, p. 83-90 8 p.

Paternity Testing Commission of the International Society of Forensic Genetics: Recommendations on genetic investigations in paternity cases

Morling, N., Allen, R., Carracedo, A., Geada, H., Guidet, F., Hallenberg, C., Martin, W., Mayr, W. R., Olaisen, B., Pascali, V. & Schneider, P. M., 1 Feb 2003, In : International Journal of Legal Medicine. 117, 1, p. 51-61 11 p.

Grading of qualitative and quantitative responses in the PI proficiency survey of the College of American Pathologists for mailings in 1997–2000

Allen, R., Eisenberg, A., Harrison, C., Walker, R. H., Young, C. T., Zeagler, D. L., Roby, R. & Polesky, H. F., 1 Jan 2003, In : International Congress Series. 1239, C, p. 825-829 5 p.

Paternity Testing Commission of the International Society of Forensic Genetics: Recommendations on genetic investigations in paternity cases

Morling, N., Allen, R., Carracedo, A., Geada, H., Guidet, F., Hallenberg, C., Martin, W., Mayr, W. R., Olaisen, B., Pascali, V. L. & Schneider, P. M., 9 Oct 2002, In : Forensic Science International. 129, 3, p. 148-157 10 p.

Phenotypic differences at the HUMvWA locus amplified with different STR kits [2]

Allen, R., Pritchard, J., Harmon, J. & Floyd, S., 30 Sep 2000, In : Journal of Forensic Sciences. 45, 5, p. 1166-1167 2 p.

DNA analysis in a paternity case involving a triploid fetus

Allen, R. W., Traver, M. & Pritchard, J. K., 4 Mar 2000, In : Transfusion. 40, 2, p. 240-244 5 p.

Prenatal genotyping for the RhD blood group antigen: Considerations in developing an accurate test

Allen, R., Ward, S. & Harris, R., 1 Jan 2000, In : Genetic Testing. 4, 4, p. 377-382 6 p.

Single-base substitutions give rise to a five-banded DNA profile at the D10S28 locus

Allen, R. & Sanford-Sharp, C. E., 1 Jan 1994, In : Transfusion. 34, 5, p. 412-414 3 p.

Genetic differences at four DNA typing loci in Finnish, Italian, and mixed Caucasian populations

Krane, D. E., Allen, R. W., Sawyer, S. A., Petrov, D. A. & Hartl, D. L., 1 Jan 1992, In : Proceedings of the National Academy of Sciences of the United States of America. 89, 22, p. 10583-10587 5 p.

The application of restriction fragment length polymorphism mapping to parentage testing

Allen, R. & Miller, W. V., 1 Jan 1990, In : Transfusion. 30, 6, p. 552-564 13 p.

Characteristics of a DNA probe (pa3'HVR) when used for paternity testing

Allen, R., 1 Jan 1989, In : Transfusion. 29, 6, p. 477-485 9 p.

Identification of the 37-kDa protein displaying a variable interaction with the erythroid cell membrane as glyceraldehyde-3-phosphate dehydrogenase

Allen, R. W., Trach, K. A. & Hoch, J. A., 1 Jan 1987, In : Journal of Biological Chemistry. 262, 2, p. 649-653 5 p.

Isolation and characterization of a 37,000-dalton protein associated with the erythrocyte membrane

Lin, T. & Allen, R., 1 Dec 1986, In : Journal of Biological Chemistry. 261, 10, p. 4594-4599 6 p.

Alternate sources and substitutes for therapeutic blood components

Kahn, R. A., Allen, R. W. & Baldassare, J., 1 Dec 1985, In : Blood. 66, 1, p. 1-12 12 p.

Analysis of gene expression in K562 cells induced to differentiate with hemin

Allen, R. W., 1 Jan 1985, In : Federation Proceedings. 44, 6

Characterization of the processed form of a ubiquitous protein displaying a variable membrane organization in erythroid cells

Allen, R. & Hoover, B. A., 1 Jan 1985, In : Blood. 65, 5, p. 1048-1055 8 p.

Quantitation of membrane glycoprotein IIIa on intact human platelets using the monoclonal antibody, AP-3

Newman, P. J., Allen, R., Kahn, R. A. & Kunicki, T. J., 1 Jan 1985, In : Blood. 65, 1, p. 227-232 6 p.

Isolation and serological characterization of a monoclonal antibody recognizing the N blood group antigen

Allen, R., Kimmeth, M. E., Wallhermfecht, M. & Vengelen-Tyler, V., 1 Jan 1984, In : Transfusion. 24, 2, p. 136-140 5 p.

Reorientation of membrane polypeptides during erythrocyte maturation

Allen, R. W. & Hoover, B. A., 1 Jan 1983, In : Blood. 61, 4, p. 803-806 4 p.

Characterization of antigens on human lymphocytes coded by messenger RNA translated in vitro

Allen, R., Ferrone, S. & Hoch, J. A., 1 Jan 1982, In : Molecular Immunology. 19, 9, p. 1127-1138 12 p.

Arrest of cell growth in the G1 phase of the cell cycle by serine deprivation

Allen, R. & Moskowitz, M., 1 Oct 1978, In : Experimental Cell Research. 116, 1, p. 127-137 11 p.

Regulation of the rate of protein synthesis in BHK21 cells by exogenous serine

Allen, R. & Moskowitz, M., 1 Oct 1978, In : Experimental Cell Research. 116, 1, p. 139-152 14 p.