

Retired: Richard Eberle, Ph.D.

Professor
Department of Veterinary Pathobiology
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Contact Information:

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Education:

1974: BA, Microbiology, UCLA, Los Angeles, CA
1979: Ph,D Virology, Baylor College of Medicine, Houston, TX
1980-1982: Postdoc, Cellular Immunology, University of Tennessee, Knoxville, TN

Academic Appointments:

1982-1986: Assistant Research Scientist, Div Pediatrics, City of Hope National Medical Center, Duarte, CA
1986-Present: Professor, Dept Vet Pathobiology, College Veterinary Medicine, OSU, Stillwater, OK (Asst Prof 1986-1990; Assoc Prof 1990-1995; Prof 1995- Present)
1992-1993: Program Director, Biochemical Genetics Program, Division of Molecular & Cellular Biology, National Science Foundation. (On administrative leave from OSU)
1993-1998: Associate Dean for Research, College of Veterinary Medicine, OSU, Stillwater, OK
1987-2002: Adjunct Professor, Dept Microbiology & Molecular Genetics, OSU, Stillwater, OK
2000-2015: Adjunct Professor, Dept Pathology, College of Medicine, Oklahoma University Health Science Center, Oklahoma City, OK

Other Experience and Professional Memberships:

2001: Member, NIH Special Site Visit Committee, Wisconsin Regional Primate Research Center
2002-2007: Chairman, Scientific Advisory Committee, California Regional Primate Research Center
2002: Member, NIH Special Site Visit Committee, New England National Primate Research Center
2004-2006: Member, NIH G20/C06 Review Panel
2005: Member, NIH Special Site Visit Committee, Yerkes National Primate Research Center
2007: Special Reviewer, Hong Kong Research Grant Program
2007: Member, NIH Special Site Visit Committee, Tulane National Primate Research Center
2008: Member, NIH Special Site Visit Committee, Southwest National Primate Research Center
1997-2011: Member, Herpesvirus Study Group, International Committee on the Taxonomy of Viruses

2005-Present: Member of numerous NIH Office of the Director, Comparative Medicine Special Emphasis Reviews Panels (~2 panels/year, 1 as Chair)

Research Funding:

Current:

2016-2020: NIH R24, "Improved Treatment for Zoonotic Monkey B Virus Infections", PI, \$700,000

2013-2018: NIH P40, "National Baboon Research Resource", Role: Co-Investigator, \$6,445,411

2012-2018: NIH P40, "Development of an SPF Baboon Colony", Role: Co-Investigator, \$3,858,235

Past 5 Years:

2008-2013: NIH P40, "National Baboon Research Resource", Role: Co-Invest, \$6,367,083

2007-2012: NIH R24, "Development of an SPF Baboon Colony", Role: Co-Invest, \$3,517,294

2009-2011: Grayson Jockey Club, "Prevention of EHV1 Myeloencephalitis by Delayed Therapy", Role: Co-Invest, \$ 104,431

2012-2013: Pfizer Animal Health, "Prevention of EHV1 Myeloencephalitis by Vaccination", Role: Co-Invest, \$70,589

2013-2014: ACLAM Fdn, "Effective Therapy for Monkey B Virus Exposure", Role: PI, \$30,000

2013-2014: Pfizer Animal Health, "Development of Equine Herpes Myeloencephalopathy in Young Adult Horses", Role: Co-Investigator, \$100,430

Selected Publications:

1. Rogers, KM, D Black & R Eberle. (2007) Primary Mouse Dermal Fibroblast Cell Cultures as an in vitro Model System for the Differential Pathogenicity of Cross-Species Herpesvirus papio 2 Infections. Arch Virol 152:543-552. PMID: 17122896.
2. Mitsunaga F, S Nakamura, T Hayashi & R Eberle. (2007). Changes in the Titer of Anti-B Virus Antibody in Captive Macaques (*Macaca fuscata*, *M. mulatta*, *M. fascicularis*). Compar Med 57:120-124. PMID: 17348300.
3. d'Offay, JM, R Eberle, Y Socol, L Schoelkopf, M White, BV Valentine, GL White & NW Lerche. (2007). Transmission Dynamics of Simian T Lymphotropic Virus Type 1 (STLV-1) in a Baboon Breeding Colony: Predominance of Female-to-Female Transmission. Compar Med 57:105-114. PMID: 17348298.
4. Focher, F, A Lossani, A Verri, S Spadari, A Maioli, JJ Gambino, GE Wright, R Eberle, D Black, P Medveckzy & D Shugar. Sensitivity of Monkey B Virus (Cercopithecine herpesvirus 1, BV) to Antiviral Drugs. (2007). Role of Thymidine Kinase in Antiviral Activity of Substrate Analogs and Acyclonucleosides. Antimicrob Agents Chemother 51:2028-2034. PMID: 17438061.
5. Elmore, D & R Eberle. (2008). Monkey B Virus (Cercopithecine herpesvirus 1). Compar Med 58:11-21. PMID: 19793452.
6. Schoeb, TR, R Eberle, DH Black, RF Parker & SC Cartner. (2008). Diagnostic Exercise: Papulovesicular Dermatitis in Rhesus Macaques (*Macaca mulatta*). Vet Pathol 45:592-594. PMID: 18587109.
7. Scharf, B, CH Wan, M Bluth, R Eberle, EN Videan, E Smith & J Coplan. (2008). Lethargy, Ulcers, Bronchopneumonia and Death in Two Aged Female Bonnet Macaques Presumed to be Caused by Cercopithecine herpesvirus 1. J Med Primatol 37 Suppl 1:60-64. PMID: 18269531.

8. Davison, AJ, R Eberle, B Ehlers, GS Hayward, DJ McGeoch, AC Minson, PE Pellett, B Roizman, MJ Studdert & E Thiry. (2009). The Order Herpesvirales. (International Committee on the Taxonomy of Viruses, Virology Division News). *Arch Virol* 154:171-177. PMID: 19066710.
9. Rogers, KM, M Deatherage, MA Breshears, D Black, JW Ritchey, M Payton, S Chapman & R Eberle. (2009). Role of Interferon- γ in the Neuropathogenesis of Herpesvirus papio 2. *Viol.* 386:280-289. PMID: 19215952.
10. Wolf, RF, R Eberle & GL White. (2010). Generation of a Specific-Pathogen-Free Baboon Colony *J Am Assoc Lab Anim Sci* 49:814-820. doi: 10.1016/j.virol.2010.11.008.
11. Tyler, S, A Severini, D Black, M Walker & R Eberle. (2011). Structure and Sequence of the Saimiriine herpesvirus 1 Genome. *Viol* 410:181-191. PMID: PMC3017652.
12. Fulton, RW, JM d'Offay & R Eberle. (2013). Bovine Herpesvirus-1: Comparison and Differentiation of Vaccine and Field Strains Based on Genomic Sequence Variation. *Vaccine* 31:1471-1479. doi: 10.1016/j.vaccine.2013.01.013.
13. d'Offay, JM, R Eberle, RF Wolf, SD Kosanke, KR Doocy, S Ayalew, K Mansfield & GL White. (2013). Simian T-lymphotropic Virus-associated Lymphomas in 2 Naturally Infected Baboons: T-cell Clonal Expansion and Immune Response during Tumor Development. *Compar Med* 63:288-294. PMID: PMC3690435.
14. Severini, A, SD Tyler, GA Peters, D Black & R Eberle. (2013). Genome Sequence of a Chimpanzee Herpesvirus and Its Relation to Other Primate Alpha-Herpesviruses. *Arch Virol* 158:1825-1828. doi: 10.1007/s00705-013-1666-y.
15. Black, D, K Ohsawa, S Tyler, L Maxwell & R Eberle. (2014) A Single Viral Gene Determines Lethal Cross-Species Neurovirulence of Baboon Herpesvirus HVP2. *Viol* 452/3:86-94. doi: 10.1016/j.virol.2013.12.038.
16. Ohsawa, K, ED Black, M Ohsawa & R Eberle. (2014) Genome Sequence of a Pathogenic Isolate of Macacine herpesvirus 1 (Monkey B Virus). *Archiv Virol* 159:2819-2821. doi: 10.1007/s00705-014-2130-3.
17. Willis, EL, R Eberle, RF Wolf, GL White & D McFarlane. (2014) The effects of age, social dominance, and cytomegalovirus antibody titers on T lymphocyte populations in captive baboons (*Papio hamadryas anubis*). *PLoS ONE* 9(9): e107167. doi:10.1371/journal.pone. 0107167.
18. Brush, LA, D Black, KA McCormack, LK Maxwell, GE Wright, J Ritchey, ME Payton & R Eberle. (2014) Papiine herpesvirus 2 (HVP2) as a Predictive Model for Drug Sensitivity of Macacine herpesvirus 1 (BV). *Compar Med* 65: 1-8.
19. Black, D, JW Ritchey, ME Payton & R Eberle. (2014) Role of the Virion Host Shutoff Protein in Neurovirulence of Monkey B Virus (Macacine herpesvirus 1). *Viol Sinica* 29: 1-10. doi: 10.1007/s12250-014-3495-x.
20. Fulton RW, JM d'Offay, R Eberle, RB Moeller, H van Campen, D O'Toole, C Chase, MM Miller, R Sprowls & DV Nydam. (2014) Bovine herpesvirus-1: Evaluation of Genetic Diversity of Subtypes Derived from Field Strains of Varied Clinical Syndromes and their Relationship to Vaccine Strains. *Vaccine* doi: 10.1016/j.vaccine.2014.11.033.
21. Eberle, R & L Jones-Engel. 2017. Understanding Primate Herpesviruses. *J Emerg Dis Virol.* 3(1): doi <http://dx.doi.org/10.16966/2473-1846.127>
22. Eberle, R & DH Black. 2017. Sequence of the Ateline herpesvirus 1 (HVA1) Genome. *Arch Virol.* doi 10.1007/s00705-017-3249-9.

23. Eberle, R, S Nicholson, D Black & L Jones-Engel. 2017. Genome Sequence Variation Among Isolates of Monkey B Virus (Macacine herpesvirus 1) from Captive Macaques. *Virology* 508:26-35. doi: 10.1016/j.virol.2017.05.001.