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## E D U C A T I O N

Post doctoral Fellow, Oregon Regional Primate Research Center, 1992-1995
Ph.D. (Microbiology), Oregon State University, 1992
B.S. (Microbiology), Oregon State University, 1985

## T E A C H I N G A N D R E S E A R C H E X P E R I E N C E

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| 2007 | Assistant Professor. Teaching: Biological Sciences, Anatomy and Human Physiology, Microbiology. College of Eastern Utah- San Juan Campus. Department Of Biology. |
| 2003-2007 | Adjunct Assistant Professor. Teaching General Biology Series; Microbiology; General Chemistry; General Biology Laboratories; Microbiology (Allied Health) Laboratories; General Chemistry Laboratories. General Science (311): Science for Elementary Teachers, Anatomy and Physiology (2007) Western Oregon University, Departments of Biology and Chemistry; Division of Natural Sciences. |
| 1992-1995 | Post doctoral fellow. Oregon Regional Primate Research Center, Beaverton, Oregon. Research involving the human and simian immunodeficiency viruses and the development of retroviral based strategies of gene transfer into mammalian cells. Molecular biological examination of mutations on the infectivity of HIV and SIV. Teaching undergraduate students molecular techniques. |
| 1990-1991 | Guest lectures in general virology courses. |
| 1988-1992 | Graduate Research Assistant. Department of Microbiology, Oregon State University. Subjects of doctoral thesis include: characterization of the proteins of infectious pancreatic necrosis virus (IPNV), characterization of IPNV's RNA-dependent RNA polymerase and epitope mapping of the major capsid protein of IPNV. |
| 1988-1993 | Guest lectures in graduate course, "AIDS and related retroviruses". |

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| 1989 | Consultant Microbiologist. National Frozen Foods Corporation, Mt. Vernon, Washington. Conducted a week long microbiology workshop. Topics included: bacterial isolation and enumeration from foods, colony identification and laboratory safety and procedures. |

Endres, C.L.

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| 1987-1988 | Graduate Teaching Assistant. Department of Microbiology, Oregon State University. Teaching: Pathogenic microbiology, immunology laboratory and microbial genetics laboratory. |
| 1985 | Undergraduate Teaching Assistant, Department of Microbiology, Oregon State University. Teaching introductory microbiology laboratories. |

## RESEARCH EXPERIENCE

DNA and RNA nucleotide sequencing, molecular cloning and other recombinant DNA techniques. Northern and Southern blot analysis, in vitro transcription and translation, site-directed mutagenesis, PCR, reverse transcriptase assays; immunological techniques: Western blot, ELISA's, HIV/SIV antigen assays; virus neutralization, purification and other common molecular and virological techniques. Mammalian cell tissue culture, generation of retroviral vectors and retroviral based gene transfer in mammalian cells. Isolation, purification and culturing of human and rhesus macaque PBL's, T-cells and macrophage. Biosafety Level 3 experience and techniques acquired while working with HIV and SIV viruses.

## AWARDS

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| 1992 | Mark H. Middlekauf Graduate Student Award. Department of Microbiology, Oregon State University |
| 1986 | Tarter Award, Oregon State Scholarship Commission |

## UNIVERSITY COMMITTEES

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| 1988 | Graduate Review Committee, Oregon State University. |
| 1989 | University Grievance Committee, Oregon State University. |

1989-90 Promotion and Tenure Committee, Department of Microbiology, Oregon State University.



**P U B L I C A T I O N S**

*Publications prior to 1993 are under my maiden name of Mason

Manning, D. S., C.L. Mason and J.C Leong. 1990. Cell-free translational analysis of the processing of infectious pancreatic necrosis virus. Virology 179: 9-15.

Leong, J.C., R. Barrie, H. M. Engleking, J. F. Koener, R. Gilmore, J. Harry, G. Kurath, D. S. Manning, C. L. Mason, L. Oberg, J. Wirkkula. Recombinant viral vaccines in aquaculture- a progress report. Proceedings of the 16th USA/Japan meeting of natural resources Panel on Aquaculture (R. Sbrjcek, Ed.), Charleston, South Carolina.

Duncan, R., C. L. Mason, J. C. Leong and P. Dobos. Sequence analysis of the infectious pancreatic necrosis virus genome segment B and its encoded VP1 protein: a putative RNA-dependent RNA polymerase lacking the Gly-Asp-Asp motif. 1991. Virology 181: 541-552.

Mason, C. L., R. Duncan, P. Dobos and J.C. Leong. Sequence analysis and bacterial expression of the infectious pancreatic necrosis virus(IPNV) genome segment B and its encoded VP1 protein: a putative RNA-dependent RNA polymerase. 1991. Proceedings Second International Symposium on Viruses of Lower Vertebrates, Corvallis, Oregon, July 29-31, pp 25-32.

Leong, J.C., E. D. Anderson, L. Bootland, B. Drolet, L. Chen, C.L. Mason, D V. Mourich and G. Trobridge. 1991. Biotechnological advances in fish disease research. Proceedings, International Marine Biotechnology Conference, Society of Industrial Microbiology, Baltimore, Maryland, October 13-16.

Leong, J.C., E. D. Anderson, L. Bootland, B. Drolet, L. Chen, C.L. Mason, D V. Mourich and G. Trobridge. 1991. Biotechnological approaches to development of salmonid fish vaccines. Proceedings of OJI International Symposium of Salmonid Diseases, Sapporo, Japan, October 22-24.

Barrie, R., C.L. Mason and J. C. Leong. 1992. Identification of conserved antigenic domain in the major capsid protein of infectious pancreatic necrosis virus. Proceedings of the 17th USA/Japan Meeting of Natural Resources Panel on Aquaculture (R. Svrjcek, Ed.), Newport, Oregon, October 24-November 1.

Endres, C. L., E. P. Bergquam, M. K. Axthelm and S. W. Wong. Suppression of Simian Immunodeficiency Virus Replication by Human Immunodeficiency Virus Type 1 trans-dominant negative rev mutants. 1995. J. Virology 69 (8): 5164-5166.

Endres, C. L., E. P. Bergquam, M. K. Axthelm and S. W. Wong. Accessing genetic-based therapies for AIDS using the simian immunodeficiency model. 1995. J. Primatol. 24, 141-144.

**A B S T R A C T S**

Leong, J.C., R. Barrie, H.M. Engleking, J.F. Koener, R. D. Gilmore, M.T.F. Huang, D.S. Manning, C.L. Mason. 1988. Development of viral vaccines for fish by molecular cloning. International Fish Health Conference, Vancouver, B.C., Canada. July 17-21.

Mason, C.L., R. Barrie, D. S. Manning and J.C. Leong. 1989. Nucleotide and amino acid sequence analysis of the antigenic determinants of infectious pancreatic necrosis virus-Sp. American Fisheries Society, Oregon Chapter, Bend, Oregon. February 8-10.

Leong, J.C., R. Barrie, C.L. Mason, P. Caswell-Reno and B. Nicholsen. 1989. Characterization of the immunoreactive region of the major capsid protein of infectious pancreatic necrosis virus. VI International Conference on Comparative and Applied Virology. Banff, Alberta, Canada. October 15-21.

Leong, J.C., E. D. Anderson, L. Bootland, B. Drolet, L. Chen, P.W. Chou, C.L. Mason, D V. Mourich, G. Trobridge and M. Wilson. 1992. Molecular and biotechnological approaches to the control of viral disease in fish. 3rd Pacific Rim Biotechnology Conference, Academia Sinica, Taipei, Taiwan. August 19-21.

Leong, J.C., E. D. Anderson, L. Bootland, B. Drolet, L. Chen, C.L. Mason, D V. Mourich, G. Trobridge, M. Wilson and S. E. LaPatra. 1992. Recombinant DNA vaccines for viral diseases of fish. Fish/Shellfish Diseases and Biotechnology Workshop, University College Cork, Ireland. September 14-17.

Wong, S. W., E. Bergquam, C. L. Endres and M. K. Axthelm. Trans-dominant HIV-1 rev mutants can inhibit production of SIVmac when co-transfected with a proviral DNA molecular clone. 1993. UCLA/UCI AIDS Symposium on Gene Therapy Approaches to Treatment of HIV-1 Infection, Palm Springs, CA, February 4-7.

Endres, C. L., E. Bergquam, M. K. Axthelm and S. W. Wong. Evaluation of gene therapy for AIDS using the SIV/rhesus macaque animal model. 1993. 1st National Conference on Human Retroviruses and Related Infections. Washington, D.C., December 12-16.

Wong, S. W., E. Bergquam, C. L. Endres and M. K. Axthelm. Molecular Genetic Approaches to Intervene with SIVmac Infections. 1994. UCLA/UCI AIDS Symposium, Novel Therapies for HIV/AIDS. Palm Springs CA, March 3-6.

Wong, S. W., C. L. Endres, E. Bergquam and M. K. Axthelm. Pre-clinical evaluation of two genetic based therapies for suppressing SIV replication. 1994. 12th Annual Symposium on Non-Human Primate Models for AIDS, Boston, MA, October 12-15.

## **R E F E R E N C E S**

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