

**YUANAN LU**

## Curriculum Vitae

**Addresses****University of Hawaii**

Environmental Health Laboratory  
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**Education**

University of California at Los Angeles	Post doc.	1995-96	Molecular Virology
University of Hawaii at Manoa (UHM)	Post doc.	1993-94	Animal Virology
University of Hawaii at Manoa	Ph.D.	1992	Microbiology
Oregon State University	M.S.	1988	Microbiology
Huazhong Agricultural University	B.S.	1982	Fisheries

**Positions**

- 2010- Chair of International Exchange Program, Office of Public Health Studies, UHM
- 2010- Graduate Faculty Member of Departments of Molecular Biosciences and Bioengineering, UHM
- 2008- Professor and Director, Environmental Health Laboratory, Office of Public Health Studies, UHM
- 05-07 Associate Professor and Director, Environmental Health Laboratory, Department of Public Health Sciences, UHM
- 03-05 Associate Researcher, Pacific Biomedical Research Center, University of Hawaii
- 2003- Graduate Faculty Member of Departments of Cell and Molecular Biology, John A. Burns School of Medicine, UHM
- 2003- Graduate Faculty Member of Departments of Tropic Medicine, Medical Microbiology and Pharmacology, John A. Burns School of Medicine, UHM
- 2002- Founding Member of the Division of Neurosciences, John A. Burns School of Medicine, UHM
- 1999- Graduate Faculty Member of Department of Microbiology, UHM
- 98-03 Assistant Researcher, Pacific Biomedical Research Center, UHM
- 1997 Junior Researcher, Pacific Biomedical Research Center, University of Hawaii at Manoa
- 95-96 NIMH Fellowship, Division of Hematology-Oncology, School of Medicine, University of California at Los Angeles

- 88-92 Teaching and Research Assistant (Animal Virology), Department of Microbiology, University of Hawaii at Manoa
- 1987 Research Assistant, Department of Microbiology, Oregon State University
- 1986 Visiting Scientist, Department of Microbiology, Oregon State University
- 82-85 Faculty Lecturer, Department of Fisheries, Huazhong Agricultural University, Wuhan, China

### **Honors and Awards**

- International Fellowship Award, State Ministry of Agriculture, Beijing, China (1985)
- Visiting Scholar, Department of Microbiology, Oregon State University, Corvallis (1986)
- The Best Research Paper for Clinical Microbiology* Award, Hawaii Branch, Annual Meeting of the American Society for Microbiology, Honolulu, Hawaii (1991)
- Research Fellowship of NIMH-NIH, School of Medicine, UCLA, Los Angeles (1995-1996)
- Travel Award of Medical Virology Club (for 3 years), American Society for Virology (1995-1997)
- Traveling Exhibition Award, Microscopy Society of America (1998)
- The 2<sup>nd</sup> Prize Award in Biological Science, Microscopy Society of America
- The 3<sup>rd</sup> Prize Award, Diatome U.S., Microscopy Society of America (1998)
- Visiting Professorship, Huazhong Agricultural University, Wuhan, China (2001)
- Award, Honored Chinese Bio-scientist in America from the National Science Academy Foundation, Beijing, China (2003)
- Visiting Professorship, Wuhan University, Wuhan, China (2004-2008)
- Honored Member of Empire Who's Who (2006)
- Visiting Professorship, Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China (2006 –)
- Faculty Travel Awards of URC-UHM (for years: 2006, 2007, 2009, and 2012)
- Visiting Professorship, Wuhan Institute of Bioengineering, Wuhan, China (2007)
- Visiting professorship, Fudan University, Shanghai, China (2009)
- 1<sup>st</sup> Prize Award for Faculty Division of the Biological Sciences Symposium, University of Hawaii, Honolulu (2009)
- Leadership Achievement Award from the Asia-Pacific Academic Consortium for Public Health (APACPH). The 43th Annual APACPH Conference, Seoul, Korea (2011)
- Visiting Professorship, Wuhan University, Wuhan, China (2012-2018)
- Visiting Professorship, Nanchang University, Nanchang, China (2013-2019)
- Hubei Governor's *Chime Bell Award* for Excellent Contribution of Foreign Experts (2014)
- Visiting Professorship, School of Public Health, Fudan University, Shanghai (2016-2019)

### **Professional Societies/Organization**

- Full Member, American Society for Microbiology (1989-2010)
- Full Member, American Society for Virology (1991 – 2018)
- Member, American Association for the Advancement of Science (1995 - now)
- Active Member, American Association for Cancer Research (199 - 2002)

Member, Society of Chinese Bio-scientists in America (2000 - now)  
Member, International Society for NeuroVirology (2005 - 2015)  
Member of Hawaii Public Health Association (2006 - 2010)  
Lifetime member of Hawaii Public Health Association (2011 – now)  
Executive member, UH Hawaii – China Public Health Foundation (2005 - )  
Executive board, Asia Pacific Academic Consortium for Public Health (2015 - )  
Regional Director, Asia Pacific Academic Consortium for Public Health (2016 - )

### **Professional Services**

#### **Journal Reviews**

*AIDS Research and Human Retroviruses*  
*Applied and Environmental Microbiology*  
*Applied Microbiology and Biotechnology*  
*Aquaculture*  
*Aquaculture Research*  
*Cancer Immunology Immunotherapy*  
*Cancer letters*  
*Chelonian Conservation and Biology*  
*Diseases of Aquatic Organisms*  
*Ecohealth*  
*Ecotoxicology*  
*Environment International*  
*Environmental Monitoring and Assessment*  
*Environmental Toxicology*  
*Fish & Shellfish Immunology*  
*Infection, Genetics and Evolution*  
*International Health*  
*International Journal of Environmental Engineering Science*  
*International Journal of Infectious Diseases*  
*Journal of Applied Microbiology*  
*Journal of Applied Toxicology*  
*Journal of Aquatic Animal Health*  
*Journal of Crustacean Biology*  
*Journal of Fish Biology*  
*Journal of Medical Virology*  
*Journal of Neuroscience Research*  
*Journal of Vaccine*  
*Journal of Virological Methods*  
*Journal of World Aquaculture Society*  
*Marine Drugs*  
*Marine Environmental Research*

*Medical Science Monitor*  
*Molecular Basis of Disease*  
*PLoS ONE*  
*PLOS – Pathogens*  
*Journal of Virology*  
*Virology Journal*  
*Water Research*  
*Environmental Science & Technology*  
*Journal of Neuroinflammation*  
*The Science of the Total Environment*

### **Text Book Reviews**

Friis, Robert F (2012) *Essentials of Environmental Health (2<sup>nd</sup> edition)*. Jones & Bartlett Learning, Sudbury, MA.

Member of *The 1<sup>st</sup> Review Committee* for the National College Textbook on Global Health Global Health Specialization in Wuhan. October 2013.

Richards, Ira S & Bourgeois Marie (2014). *Principles and Practice of Toxicology in Public Health (2<sup>nd</sup> edition)*. Under consideration by Taylor and Francis. Jones & Bartlett Learning, Burlington, MA.

Turnock, Bernard J. (2016). *Essentials of Public Health (3<sup>rd</sup> edition)*. Jones & Bartlett Learning, Burlington, MA.

Jeffrey C. Pommerville (2017). *Fundamentals of Microbiology (11<sup>th</sup> edition)*. Jones & Bartlett Learning, Burlington, MA.

### **Grant Reviews**

U.S. Civilian Research & Development Foundation (CRDF) (2004)  
 U.S. Department of Agriculture (USDA), U.S. Department of State (USDS) (2006)  
 U.S. NSF Review Panel for Phase I SBIR - Marine Biotechnology (2007)  
 U.S. NSF Review Panel for Phase I SBIR - Marine/Aquatic Biotechnology (2009)  
 U.S. NSF Review Panel for Phase I SBIR - Diagnostic Assays and Devices (2009)  
 U.S. NSF Review Panel for Phase I SBIR – Aquaculture (2010)  
 U.S. NSF Review Panel for Phase I SBIR - Marine Biotechnology (2010)  
 U.S. NSF Review Panel for SBIR/STTR – Biotechnology & Chemical Technologies (2011)  
 U.S. NSF SBIR/STTR Phase I – Marine Biotechnology (2012)  
 USDA SBIR – Aquaculture (2013)  
 China NSF grant review (2014)  
     NSF Key Projects Review– Biological and Biomedical Sciences  
 China NSF grant Review (2015)

UHM COBRE grant Review (2015)  
UHM COBRE grant Review (2016)

### Journal Editor Board

Editor Board of the *Journal of Zhejiang University Sciences-B* (since 2004)  
Editor Board of the *Diseases of Aquatic Organisms* (since 2006)  
Advisor board of *Science Advisory Board* (since 2008)  
Editor Board of the *World Journal of Virology* (2010-2018)  
Editor Board of the *Advances in Biology* (since 2011)  
Editor Board of the *Blue Biotechnology Journal* (since 2011)  
Editor Board and Associate Editor of *Global Health Journal* (2013 – 2016)  
Editor Board of *Virologica Sinica* (since 2014)  
Editor Board of *Journal of Clinical Immunology* (since 2014)  
Editor Board of *Macrophage* journal (since 2014)  
Editor Board of *Austin Journal of Public Health and Epidemiology* (since 2014)  
Editor Board of *Environmental Diseases* (since 2016)  
Editor Board of *The Scientific Pages of Vaccine* (since 2016)  
Editor Board of *The Scientific Pages of HIV and AIDS* (since 2016)  
Editor Board of *STIs, STDs, and HIV AIDS* (since 2016)  
Editor Board of *Global Health Research and Police* (since 2016)  
Editor Board of *Marine Drugs* (since 2016)  
Editor Board of *Virology and Immunology Journal* (Since 2018)

### National and International Conference/Committee

**Judge** for the WAS 2009, Mexico  
**Chair** for Shrimp Marine Biotechnology session of WAS 2009, Mexico  
**Reviewer** for the RCMI 2009 Conference Abstracts  
**Chair** for the *Health Behavior* of the 41<sup>st</sup> APACPH Conference, 2009, Taiwan  
**Judge** for the WAS 2010, Seattle, WA  
**Chair** for the Re-Emerging Diseases-I of 42<sup>nd</sup> APACPH Conference, Bali, Indonesia, Nov 2010  
**Chair** for the Re-Emerging Diseases-II of 42<sup>nd</sup> APACPH Conference, Bali, Indonesia, Nov 2010  
**Co-Chair** for the World Vaccine 2011 Conference (WV2011), Beijing, March 2011.  
International Scientific Committee of the 43<sup>rd</sup> APACPH Conference, Seoul, Oct 2011  
**Chair** for Environmental Health of the 43<sup>rd</sup> APACPH Conference, Seoul, Oct 2011.  
**Chair** for Environmental Health of the 44<sup>th</sup> APACPH Conference, Colombo, Oct 2012  
**Judge** for the 2012 American Medical Association (AMA) Conference, Hawaii, Nov 2012  
**Chair** for NauroAIDS Therapy of the 5<sup>th</sup> World Conference of Vaccine, Hangzhou, March 2013.

**Co-Chair** of Organization Committee for the 45<sup>th</sup> APACPH conference, Wuhan, October 2013

**Chair** for Environmental Health Session of 45<sup>th</sup> APACPH annual conference, Wuhan, October 2013.

**Member** of the National Review Committee for Higher Medical Teaching Materials for Global Health Specialization, the People's Health Publisher. Oct 2013, Wuhan.

**Organization Committee** for 11<sup>th</sup> Annual Meeting of Chinese Society for Virology and the 6<sup>th</sup> International Symposium on Modern Virology Conference. Wuhan, Oct 23-25, 2015.

**Chair** for the Session of Emergence, Replication, and Pathogenesis of RNA Viruses, the 6<sup>th</sup> International Symposium on Modern Virology Conference. Wuhan, Oct 23-25, 2015.

**Chair** of Organization Committee for the 2016 UHM-Fudan Public Health Summit, Honolulu, Hawaii, September 26-28, 2016.

**Reviewer** for 50<sup>th</sup> APACPH 2018 conference

### **Community Services**

**Judge**, Hawaii State Sciences and Engineering Fairs (2000)

**Secretary**, American Society for Microbiology - Hawaii Branch (1999-2000)

**President** American Society for Microbiology – Hawaii Branch (2000-2001)

**Judge** American Society for Microbiology-HI Branch Spring Meeting (2002-2003)

**President** American Society for Microbiology – Hawaii Branch (2003-2004)

**Judge** Hawaii State Sciences and Engineering Fair (2004)

**Senator** University of Hawaii at Manoa Faculty Senator (2003-2005)

**Director** Environmental Health Laboratory (2005-2017)

**Member** Public Health Sciences Student Affairs Committee (2005-2006)

Public Health Sciences Accreditation Committee (2005-2006)

Public Health Sciences Curriculum Committee (2005-2006)

Public Health Sciences Curriculum Committee (2007-2008)

Public Health Sciences Budget Committee (Chair) (2005-2008)

UHM-IGERT curriculum Committee (2006-2008)

DPHS Search Committee for Environmental Health Faculty (2007)

**Head** Environmental Health Program (2007)

**Member** DTMMMP Faculty Search Committee – Virologist position (2008)

Public Health Sciences Personal Committee (Chair) (2008-2009)

**Member** Public Health Sciences Infrastructural Committee (2008)

DTMMMP Personal Committee (DPC), JABSOM (2009-2012)

Public Health Sciences Search Committee – Epidemiologist position (2009)

UHM TPRC Committee (2009)

UHM IBC Committee (2009-2014)

- Public Health Sciences Budget Committee (Chair) (2009-2013)
- Member** Public Health Sciences Personal Committee (2009-2015)  
 UHM DTMMMP search committee for Animal Pathologist (2010-2011)  
 UHM WRRC search committee for Marine Microbiologist (2010-2011)  
 UHM TPRC Committee (2012)  
 UHM IBC committee (2013)  
 DPHS search committee – Environmental Health, Biostatistics, and Health Policy and Management (2013)
- Chair** DPHS International Exchange Committee (Chair) (2013-2014)
- Member** DPHS Personal Committee (DPC) (2014)  
 UHM Institutional Biosafety Committee (2014)  
 DPHS search committee for ATP (2014)
- Member** UHM Institutional Biosafety Committee (2015)  
 UHM Institutional Review Entity (IRE) committee (2015)  
 Institutional Review Entity (2015)
- Chair** OPHS International Committee (Chair) (2015)  
 OPHS International Committee (Chair) (2016)
- Advisor** Waipahu High School Student Research
- Member** UHM Institutional Biosafety Committee (2016)  
 SSW Tenure and Promotion Committee (2016)  
 Institutional Review Entity (2016)
- Chair** OPHS International Exchange Committee (2016)
- Chair** UHM TPRC Committee (2016-2017)
- Member** UHM Institutional Review Entity (2017)  
 UHM Institutional Biosafety Committee (2017)
- Judge** Iolani Speech Tournament (2017)  
 DPHS search committee – Biostatistician (2017-2018)
- Chair** Regional SRC chair for the Windward Science Fair (2018)
- Member** UHM Institutional Biosafety Committee (2018)  
 UHM DPHS Personal Committee (2018)  
 Hawaii State Emergence Response Council (2018)  
 UHM Institutional Review Entity (2018)
- Judge** McKinley High School Science Fair (2018)  
 2018 Sacred Hearts Academy Speech Festival

### Research Funds

<u>Funding Agency</u>	<u>Amount</u>	<u>Duration</u>
China NSF Title: Distribution characteristics and environmental behavior of typical lake pathogenic microorganisms in China (我国典型湖泊病原微生物的分布特征与环境行为).	¥800,000	09/1/16-8/31/2019

Role: Co-PI (PI: Xu QJ)

Nanchang University ¥200,000 01/01/16-12/31/18

Title: Gainjiang Scholarship fund for Environmental Health Research.

Role: PI (Y Lu)

2015BDH8008 ¥250,000 07/01/15-12/31/2017

Jiangxi ST

Title: Explore the use of enteric viruses as bio-indicator to monitor Boyanghu Water quality and assess aquatic risk of biologic diseases

Role: Co-PI (PI: ZK Yuan)

4501286 \$50,000 07/1/14-10/31/2016

Hawaii Community Foundation

Title: Human enteric viruses – effective recovery and detection from environmental waters and their potential as a new indicator for monitoring Hawaii water quality.

Role: PI (Y Lu)

MH079717 (R01) \$1,744,650 07/1/09-12/31/2015

NIMH, NIH

Title: Modeling Monocytes and Macrophages Based Gene Therapy for NeuroAIDS.

Role: PI (Y Lu)

386230 \$60,000 09/01/10-12/31/14

UHM-RTRF

Title: Development of Transgenic Shrimp Strains with Viral Resistance.

Role: PI (Y Lu)

11ADVC-4 \$48,020 08/18/11-12/31/2013

Hawaii Community Foundation

Title: New drugs from the sea: screening microbial extracts from Hawaiian water for anti-respiratory viral therapy.

Role: PI (Y Lu)

OCE09-11000 \$385,500 06/1/09-05/31/2012

NSF

OHH-PRCMB (PI: E Laws & G Ostrander)

Title: Establishment of PCR array for Quantitative Detection of Multiple Pathogens and Pathogen Indicators from Tropic/Subtropic Coastal Waters

Role: PI & Pathogen team Leader

R/AQ-86PD \$27,273 7/1/10-6/30/12

UH Sea Grant College Program

Title: Shrimp Promoter Mediated Transgene Expression in Primary Shrimp Cell Cultures in vitro.

Role: PI (Y Lu)

NSF 0549514 \$2,599,415 7/1/06-6/30/2012

NSF/NIH

Title: IGERT: Integrative Training in Ecology, Conservation and Pathogen Biology.



Role: Co-Investigator & Head of training lab (PI: B. Wilcox)

397248 \$25,000 11/16/07-06/30/10  
UH-CTSBF

Title: Modeling Monocyte-derived Macrophage-Based Gene Therapy for NeuroAIDS.  
Role: PI (Y Lu)

438824 49,090 1/01/08-9/30/09  
HCF

Title: Development and *in Vitro* Validation of scFv Directed against HIV-1 Tat – A Novel Neuroprotective Approach for NeuroAIDS  
Role: PI (Y Lu)

2U54 NS039406 \$10,107,025 9/1/04-8/31/09  
NIH/NINDS (total cost)

Role: Collaborator (PI: J. Spiess)

Title: Specialized Neurosciences Research Programs at Minority Research Institutes, National Institute of Neurological Disorders and Stroke.

438492 \$50,000 7/1/07-3/31/09  
Hawaii Community Foundation

Title: Establishment of Lentiviral Vector Mediated Transduction and Expression of a Potential Neuro-protective Factor in Mouse Monocytes and Macrophages.  
Role: PI (Y Lu)

Pilot Project 658052 \$95,000 1/1/07-5/31/09  
NSF/NIEHS

OHH-PRCMB (PI: E Laws & G Ostrander)

Title: Isolation and characterization of marine antiviral compounds extracted from marine microorganisms.  
Role: PI (Y Lu)

China 948 project ¥800,000 7/1/05-6/30/08  
State Department of Education

Title: Establishment of Marine Animal Cell Culture Center  
Role: PI (Y Lu)

xxxxxxx \$49,090 11/01/06-12/31/08  
HCF

Title: Development and *in Vitro* Validation of scFv Directed against HIV-1 Tat – A Novel Neuroprotective Approach for NeuroAIDS  
Role: PI (Y Lu)

Pilot Project of G12 RR003061 \$250,000 8/1/01-7/31/06  
NCRR, NIH

Title: Mutant tRNA-Mediated Anti-HIV-1 Infection: A Novel Gene Therapy Approach.  
Role: Co-Investigator (PI: R. Yanagihara).

UH-OTTED 320580 \$5,000 6/1/05-5/31/06

Title: Molecular Cloning and Identification of Shrimp  $\beta$ -actin Gene.  
Role: PI (Y Lu)

437755	\$50,925	7/1/05-6/30/06
Hawaii Community Foundation		
<u>Title:</u> Establishment of <i>in vitro</i> Cell Culture Model for siRNA-based Protection from West Nile Virus Infection.		
Role: PI (Y Lu)		
S11 NS043499 (CNS)	\$1,542,403	9/1/02-8/31/08
NINDS, NIH		
<u>Title:</u> Development of Gene Transfer Approaches for NeuroAIDS.		
Role: PI (Y Lu)		
Clinical Research Center, RCMI-UH	\$10,000	4/1/02 - 12/31/03
Hawaii Community Foundation	\$51,640	8/1/02 – 12/31/03
<u>Title:</u> Development of a Novel Gene Therapy Approach to HIV Infection: Mutant tRNA Strategy.		
<u>Ro:</u> PI (Y Lu)		
00000	\$15,000	8/1/00-12/31/0
URC-UHM		
<u>Title:</u> Development of An Immunoassay for the Early, Simple and Effective Diagnosis of Taura Syndrome Virus (TSV).		
<u>Role:</u> PI (Y Lu)		
00000	\$25,000	02/1/00 – 07/31/02
Wildlife Preservation Trust		
<u>Title:</u> Establishment and Characterization of Cell Lines from Hawaiian Monk Seal ( <i>Monachus schauinslandi</i> )		
<u>Role:</u> PI (Y Lu)		
0000	\$49,823	06/1/00 – 6/31/02
HCF		
<u>Title:</u> Induction of a Novel Turtle Herpesvirus in Primary Cell Cultures from Trigeminal Ganglia and Tumors.		
Role: PI (Y Lu)		
CTSA Pilot Study	\$136,595	12/1/99-7/31/05
USDA (PI: JS Lee)		
<u>Title:</u> Virology Health Services for Hawaiian Aquaculture.		
Role: PI (Y Lu)		
00000	\$58,750	05/01/99-12/31/02
NMFS		
<u>Title:</u> Detection and Isolation of Viruses Associated with Green Turtle Fibropapilloma		
Role: PI (Y Lu)		
00000	\$50,000	06/1/97 – 12/31/98
HCF		
<u>Title:</u> Characterization of a Papilloma-Like Virus Isolated from Cell Lines Derived from Green Sea Turtles with Fibropapilloma.		
Role: PI (Y Lu)		

00000	\$48,090	06/1/98 – 12/31/99
HCF		
Title: Detection and Isolation of viruses associated with Green sea Turtle Fibropapilloma.		
Role: PI (Y Lu)		
00000	\$49,823	06/1/99 – 05/31/02
HCF		
Title: Isolation of a Putative Herpesvirus from Cell Lines Derived from Tumor Tissues of Green Turtles with Fibropapilloma.		
Role: PI (Y Lu)		

### **Patent**

Loh, P.C. and Y. Lu, Method for Growing Crustacean Virus in Fish Cells. U.S. Patent 5,236,840, issued August 17, 1993

Lu, Y. and M. Soderlund, Molecular cloning and identification of crustacean actin promoter from *litopenaeus* shrimp. U.S. Patent No.: US8,242,253 B2, issued August 14, 2012.

### **Teaching Activities**

- 83-85 Fish Diseases (3 CR), Lecturer, Huazhong Agricultural University (HAU), Wuhan, China
- 84-85 *Essential Techniques for Translation of English into Chinese* (2 CR), Lecturer, HAU, Wuhan
- 89-92 *Animal Virology Laboratory* (2 CR), Teaching Assistant, UHM, Honolulu, Hawaii
- 2000 *Animal Tissue Culture Technology* (1 CR), Lecturer, KCC, Honolulu, Hawaii
- 2004 *Animal Tissue Culture Workshop* (1 week), Lecturer, HAU, Wuhan, China
- 97-06 Guest Lectures for Courses in Biology, General Microbiology, and Neurovirology, UHM
- 97-07 Directed Research Courses for undergraduate and graduate students, UHM
- 05-07 *Environmental determinants of Health* (PH681), DPHS, UHM, Hawaii
- 05-06 *Continued Education in Public Health* (PH696), DPHS, UHM, Honolulu, Hawaii
- 06-07 *Special Topics in Public Health* (PH794T) – Environmental Virology (PH794T)
- 07-08 *Environmental determinants of Health* (PH681), DPHS, UHM, Hawaii  
*Environmental Health Laboratory Methods* (PH781), DPHS, UHM, Hawaii
- 08-09 *Environmental determinants of Health* (PH681), DPHS, UHM, Hawaii  
*Environmental Virology Methods* (PH797T), DPHS, UHM, Hawaii
- 09-12 *Environmental determinants of Health* (PH681), DPHS, UHM, Hawaii
- 2013- *Current hot topics in Environmental Health* (PH794E), DPHS, UHM, Hawaii  
*Environmental Health Laboratory Methods* (PH781), DPHS, UHM, Hawaii  
*Environmental Determinants of health* (PH681), DPHS, UHM, Hawaii
- 2014- *Current hot topics in Environmental Virology* (PH794E), DPHS, UHM, Hawaii  
*Environmental Health Laboratory Methods* (PH781), DPHS, UHM, Hawaii  
*Environmental Determinants of health* (PH681), DPHS, UHM, Hawaii

- 2015- *Environmental Health Laboratory Methods* (PH781), DPHS, UHM, Hawaii  
*Environmental Determinants of Health* (PH681-001 & 002), DPHS, UHM  
*Directed Research and Reading in Env Health* (PH699), DPHS, UHM  
*Hot Topics in Env Health (PH794D)*, OPHS, UHM  
*Directed Research in Microbiology (PH699)*, OPHS, UHM
- 2016- *Environmental Microbiology* (PH445), DPHS, UHM  
*Introduction to Environmental Health*, SPH, Wuhan University  
*Environmental Determinant of Health* (PH681-001 & 002), DPHS, UHM
- 2017- *Environmental Microbiology* (PH445), DPHS, UHM  
*Environmental Determinant of Health* (PH681), DPHS, UHM
- 2018 *Environmental Microbiology* (PH445), DPHS, UHM  
*Environmental Determinant of Health* (PH681), DPHS, UHM  
*Microbiological Problems (MICR499)*, DPHS, UHM  
*Directed Reading and Research in EH (PH699)*, OPHS, UHM
- 2019 *Environmental Microbiology* (PH445), DPHS, UHM  
*Environmental Determinant of Health* (PH681, DPHS, UHM  
Public Health and Environment (PH340, S/F), OPHS, UHM

### **GenBank Submission**

7 submissions of newly identified genomic DNA sequences to the GenBank (full-length cds of DNA polymerase, DNA binding protein, glycoprotein and tumor susceptibility gene TSG101 of newly identified green turtle herpesvirus, and two shrimp actin genes).

### **Peer-Reviewed Journal Articles**

1. Lu, Y., P.C. Loh, and J.A. Brock. 1989. Isolation, Purification and characterization of infectious hypodermal and hemotopietic necrosis virus (IHHNV) from penaeid shrimp. *J. Virol. Methds.* 26:339-344.
2. Loh, C. Loh, Y. Lu, and J.A. Brock. 1990. Growth of the penaeid shrimp virus infectious hypodermal and hematopietic necrosis virus in a fish cell line. *J. Virol. Methds.* 28:273-280.
3. Lu, Y., C.N. Lannan, J.S. Rohovec, and J.L. Fryer. 1990. Fish cell lines establishment and characterization of three new cell lines from grass carp (*Ctenopharyngodon idella*). *In Vitro Cell Dev. Biol.* 26:275-279.
4. Lu, Y., E.C.B. Nadala, J.A. Brock, and P.C. Loh. 1991. A new virus isolated from infectious hypodermal and hemotopietic necrosis virus (IHHNV) Infected Penaeid shrimps. *J. Virol. Methds.* 31:189-196.
5. Nadala, E.C.B., Y. Lu, P.C. Loh, and J.A. Brock. 1992. Infection of *Penaeus stylirostris* (Boone) with a rhabdovirus isolated from *Penaeus* spp. *Fish pathol.* 27(3):143-147.
6. Nadala, E.C.B., Y. Lu, P.C. Loh, and J.A. Brock 1992. A streptavidin-biotin-enhanced nitrocellulose enzyme immunoassay for the detection of rhabdovirus of penaeid shrimps from infected animals. *J. Virol. Methds.* 39:227-229.

7. Lu, Y. and P. C. Loh. 1992. Some biological properties of a rhabdovirus isolated from penaeid shrimp. *Arch Virol.* 127:339-343.
8. Nadala, E.C.B., Y. Lu, and P.C. Loh. 1993. Primary culture of lymphoid, nerve, and ovary cells from *Penaeus stylirostris* and *Penaeus vannamei*. *In Vitro Cell Dev. Biol.* 29A:620-622.
9. Lu, Y. and P.C. Loh. 1994. Viral structural proteins and genome analyses of rhabdovirus of penaeid shrimp (RPS). *Dis. Aquat. Org.* 19:187-192.
10. Lu, Y. and P. C. Loh. 1994. Serological studies of the rhabdovirus of penaeid shrimp (RPS) and its relationship to three other fish rhabdoviruses. *J. Fish Dis.* 17: 303-309.
11. Lu, Y., L.M. Tapay, J.A. Brock, and P.C. Loh. 1994. Infection of the yellow head baculo-like virus (YBV) in two species of penaeid shrimp, *Penaeus stylirostris* (Stimpson) and *Penaeus vannamei* (Boone). *J. Fish Dis.* 17:649-656.
12. Lu, Y. and P.C. Loh. 1994. Infectivity studies of rhabdovirus in penaeid blue shrimp. *Aquaculture International.* 2:123-127.
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### **Book & Chapter**

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88. Lu, Y., S.B. Cao, Y.B. Yang. Lentiviral Vector-Mediated Expression of sTNFR-Fc in Stably Transduced Human Macrophage and Neuronal Cells: Implications for NeuroAIDS Therapeutics. Abstract of the annual Biomedical Science Symposium of University of Hawaii, April 13, 2009. Honolulu, Hawaii.
89. Yang, Y.B., C.X. Wu, V.R. Nerurkar, R.Yanagihara and Y. Lu. Inhibition of West Nile Virus Replication by Retrovirus Delivered Small Interfering RNAs in Human Neuroblastoma Cells. Abstract of the annual Biomedical Science Symposium of University of Hawaii, April 13, 2009. Honolulu, Hawaii.
90. Lu, Y., M. Soderlund, and C.X. Wu. Molecular isolation and biological characterization of a newly identified putative shrimp  $\beta$ -actin promoter from *Litopenaeus vannamei*. Abstract for World Aquaculture 2009 conference. September 25-29, 2009. Veracruz, Mexico.
91. Lu, Y., Y.B. Yang, V.R. Nerurkar, and R. Yanagihara. Retroviral vector-directed sequence-specific siRNA suppresses West Nile virus replication in human neuroblastoma cells. Abstract for the 41th APACPH Conference, December 1-6, 2009, Taiwan.
92. Wu, C.X., and Y. Lu. High-titer MOMLV-based retroviral vector system for superior gene delivery into mouse cells of hematopoietic and lymphocytic lineages. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 13, 2010. Honolulu, Hawaii.
93. Yasuhara-Bell, J. and Y. Lu. In vitro evaluation of marine microorganism extracts for antiviral activities. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 13, 2010. Honolulu, Hawaii.
94. Tong, H.I. and Y. Lu. Development of RT-PCR for enhanced detection of human norovirus in Hawaii waters. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 13, 2010. Honolulu, Hawaii.

95. Lu, Y. and Y.B. Yang. Mechanism of HIV-1-TAT Induction of Interleukin-1 $\beta$  from Human Monocytes: Involvement of the Phospholipase C/Protein Kinase C Signaling Cascade. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 13, 2010. Honolulu, Hawaii.
96. Yasuhara-Bell, J. and Y. Lu. In vitro evaluation of marine microorganism extracts for antiviral activities. Abstract of the Gordon Research Conference on Oceans and Human Health, University of New England, June 13-18, 2010. Biddeford, Maine.
97. Tong, H.I. and Y. Lu. Development of RT-PCR for enhanced detection of human norovirus in Hawaii waters. Abstract of the Gordon Research Conference on Oceans and Human Health, University of New England, June 13-18, 2010. Biddeford, Maine.
98. Lu, Y. Island Health – Monitoring coastal waters using enteric viruses as an indicator. Abstract of the International Global Health Conference of APACPH, University of Colombo, June 5, 2010. Colombo, Sri Lanka.
99. Wu, C.X. and Y. Lu. Construction of a retroviral vector for efficient gene delivery into human and mouse cells of hematopoietic and lymphocytic lineages. Abstract of the 29<sup>th</sup> Annual Meeting of American Society for Virology, Montana State University, July 17-21, 2010, Bozeman, Montana.
100. Lu, Y., Y.B. Yang, and J.G. Wu. HIV-1-TAT-mediated Induction of Interleukin-1 $\beta$  in Affected Human Monocytes. Abstract of the 29<sup>th</sup> Annual Meeting of American Society for Virology, Montana State University, July 17-21, 2010, Bozeman, Montana.
101. Lu, Y., S.B. Cao, S. Maggirwar, H.Y. Dou, and S. Dewhurst. Lentiviral Vector Mediated Expression of sTNFR-Fc as A Novel Therapeutic Intervention for NeuroAIDS. Abstract of the 10<sup>th</sup> International Symposium on Neurovirology. University of Milan, October 12-16, 2010, Milan, Italy.
102. Lu, Y., S.B. Cao, S. Maggirwar, H.Y. Dou, and S. Dewhurst. Test and Establishment of A Novel Therapeutic Intervention for NeuroAIDS. Abstract of the 42<sup>nd</sup> APACPH Conference, November 24-27, 2010, Bali, Indonesia.
103. Wu, C.X. and Y. Lu. Construction of A New Retroviral Vector for HIV-1/AIDS Gene Therapy. Abstract of the 42<sup>nd</sup> APACPH Conference, November 24-27, 2010, Bali, Indonesia.
104. Tong, H.I. and Y. Lu. Enhanced Detection and Monitoring of Human Norovirus in Hawaii Waters Using Effective Reverse Transcriptase – Polymerase Chain Reaction. Abstract of the 42<sup>nd</sup> APACPH Conference, November 24-27, 2010, Bali, Indonesia.
105. Lu, Y. Modeling Monocyte-macrophage Based Molecular Therapy for NeuroAIDS. The abstract of the World Vaccine Conference. March 22-26, 2011. Beijing, China.
106. Lee, J., C.X. Wu, and Y. Lu. Lentiviral vector mediated gene transfer into primary mouse monocytes: a novel therapeutic approach for neuroAIDS. Abstract of the 23<sup>rd</sup> Annual CTAHR and COE Student Research Symposium. April 8, 2011. Honolulu, Hawaii.
107. Tong, H.I. and Y. Lu. Detection of Human Norovirus and Adenovirus in Hawaiian Coastal Waters Using Effective RT-PCR and PCR. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 20, 2011. Honolulu, Hawaii.
108. Byron, M.M., Y.B. Yang, and Y. Lu. Efficient expression of anti-HIV-Tat single chain antibody in stably transduced human neuronal cells in vitro. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 20, 2011. Honolulu, Hawaii.
109. Connell, C and Y. Lu. Rapid Detection of Enteroviruses in Hawaiian Environmental Waters using Optimal PCR. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 20, 2011. Honolulu, Hawaii.

110. Tong, J., H. Trapido-Rosenthal, and Y. Lu. Microbial extracts from Hawaiian marine waters and their anti-viral activity. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 20, 2011. Honolulu, Hawaii.
111. Wu, C.X. and Y. Lu. Effective protection of neuronal cells through lentiviral vector-mediated expression of a soluble tumor necrosis factor- $\alpha$  receptor: a potential therapy for neuroAIDS. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 20, 2011. Honolulu, Hawaii.
112. Lee, J. C.X. Wu, and Y. Lu. Primary cultures of mouse bone marrow cells are effectively transduced with lentiviral vectors for the expression of an anti-TNF- $\alpha$  effector *in vitro*. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 20, 2011. Honolulu, Hawaii.
113. Wu, chengxiang and Y. Lu. Neuron protection through lentiviral vector-mediated expression of a tumor necrosis factor- $\alpha$  antagonist: a potential therapy for neuroAIDS. Abstract of the Annual Spring Meeting of Hawaii ASM, April 23, 2011. Honolulu, Hawaii.
114. Connell, C. and Y. Lu. Rapid detection of enteroviruses in Hawaii environmental waters using optimized PCR. Abstract of the Annual Spring Meeting of Hawaii ASM, April 23, 2011. Honolulu, Hawaii.
115. Tong, H. and Y. Lu. Development of enhanced detection of human norovirus and adenovirus in Hawaiian recreational waters. Abstract of the Annual Spring Meeting of Hawaii ASM, April 23, 2011. Honolulu, Hawaii.
116. Byron, M.M. and Y. Lu. Efficient expression of anti-HIV-Tat single chain antibody *in vitro*. Abstract of the Annual Spring Meeting of Hawaii ASM, April 23, 2011. Honolulu, Hawaii.
117. Wu, C.X., S.B. Cao, S. Maggirwar, S. Dewhurst, and Y. Lu. Neuroprotective effect of soluble TNFR expressed from stably transduced cells on HIV-1 Tat and gp120 mediated neurotoxicity. Abstract of the 29<sup>th</sup> Annual Meeting of American Society for Virology, University of Minnesota, July 16-20, 2011, Minneapolis, Minnesota.
118. Byron, M.M., Y.B. Yang, and Y. Lu. Lentiviral vector mediated effective transduction and expression of anti-HIV-Tat single chain antibody in neuronal cells *in vitro*. Abstract of the 29<sup>th</sup> Annual Meeting of American Society for Virology, University of Minnesota, July 16-20, 2011, Minneapolis, Minnesota.
119. Tong, H.I. and Y. Lu. Enhanced Detection and Monitoring of Human Norovirus and Adenovirus in Hawaiian Coastal Waters Using Effective RT-PCR and PCR Methods. Abstract of the 30<sup>th</sup> Annual Meeting of American Society for Virology. University of Minnesota, July 16-20, 2011, Minneapolis, Minnesota.
120. Byron, M.M. and Y. Lu. Expression of anti-HIV-Tat scFv in stably transduced human neuronal cells – Implications for NeuroAIDS therapeutics. Abstract of the 43<sup>rd</sup> APACPH Conference, October 18-22, 2011, Seoul, Korea
121. Tong H.I. and Y. Lu. Detection of human enteric viruses in Hawaiian recreational waters. Abstract of the 43<sup>rd</sup> APACPH Conference, October 18-22, 2011, Seoul, Korea
121. Lu Y. Human Enteric Viruses – An Indicator for Recreational Water Contamination. Invited talk at the 43<sup>rd</sup> APACPH Conference, October 18-22, 2011, Seoul, Korea.
122. Tong J. and Y. Lu. Comparative evaluation of the cytotoxicity of inorganic mercury and methylmercury in six brain-related cell lines from different species *in vitro*. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 18, 2012. Honolulu.
123. Byron M.M. and Y Lu. Lentiviral vector mediated stable expression of anti-HIV Tat antibody in human macrophage, neuronal and PBMC provide significant protection from HIV neurotoxin: application for neuroAIDS. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 18, 2012. Honolulu

124. Wang Z. and Y. Lu. Effective recovery and detection of infectious enteroviruses from environmental waters. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 18, 2012. Honolulu.
125. Ma J. and Y. Lu. Establishment, characterization, and viral susceptibility of two new fish cell lines from Leopard Wrasses *Macropharyngodon geoffroy*. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 18, 2012. Honolulu
126. Connell C., H.I. Tong, Z. Wang, E. Allmann, and Y. Lu. Shellfish-mediated bioaccumulation of enteric viruses in Hawaiian marine environment. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 18, 2012. Honolulu, Hawaii.
127. Zavialov A., C.X. Wu., and Y. Lu. The structure and function of adenosine deaminase 2, a human member of the adenosine deaminase growth factor (ADGF) family. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 18, 2012. Honolulu, Hawaii.
128. Byron, M.M. and Y. Lu. Abstract of the Annual Spring Meeting of Hawaii ASM, April 21, 2012. Honolulu, Hawaii.
129. Zavialov A. and Y Lu. Adenosin deaminases as drug candidates for the treatment of HIV infection. Abstract of 18<sup>th</sup> SNIP conference, April 25-28, 2012, Honolulu, Hawaii.
130. Lu, Y. Cell Mediated Novel Gene Therapy for NeuroAIDS. Abstract of 18<sup>th</sup> SNIP conference, April 25-28, 2012, Honolulu, Hawaii.
131. Byron M.M. and Y. Lu. Stable expression of anti-HIV Tat single chain variable fragment intrabody in human neuronal cells as a potential therapy for neuroaids. Abstract of 18<sup>th</sup> SNIP conference, April 25-28, 2012, Honolulu, Hawaii.
132. Wu C., S. Cao, S. Maggirwar, S. Dewhurst, and Y. Lu. Construction and characterization of lentiviral vector-mediated expression of TNFR as a potential protective molecule in human neuronal cells. Abstract of 18<sup>th</sup> SNIP conference, April 25-28, 2012, Honolulu, Hawaii.
133. Connell C and Y Lu. Rapid Detection of Enteroviruses in Hawaiian Environmental Waters using Optimized RT-PCR. Abstract of International symposium on Friendship between Human Well-being and Marine Environment in the Pacific Islands. May 17-19, Japan.
134. Wang Z., C. Connell, H.I. Tong, E. Allmann, and Y. Lu. New Approaches for Enhanced Detection of Enteroviruses from Hawaiian Environmental Waters. Abstract of the 30<sup>th</sup> Annual Meeting of American Society for Virology, University of Minnesota, July 20-25, 2012, Madison, Wasiconsin.
135. Lu Y. Cell Mediated Expression and Delivery of Soluble TNF Antagonist for NeuroAIDS. Abstract of the 30<sup>th</sup> Annual Meeting of American Society for Virology, University of Minnesota, July 20-25, 2012, Madison, Wasiconsin.
136. Allmann E, L Pan, L Li, DJ Li, SQ Wang, and Y Lu. Detection of Enteric Virus in Recreational Water in Wuhan, China. Abstract of the U.S. Recreational Water Quality Criteria: A vision for the Future. March 11-13, 2013, Honolulu, Hawaii.
137. Zi Wang, Christina Connell, Hsin-I Tong, Erin Allmann and Yuanan Lu. New Approaches for Enhanced Detection and monitoring Enteroviruses from Hawaiian Environmental Waters. Abstract of the U.S. Recreational Water Quality Criteria: A vision for the Future. March 11-13, 2013, Honolulu, Hawaii.
138. Lu Y. NeuroAIDS Therapy – Current Challenges and Future Directions. The 5<sup>th</sup> World Conference of Vaccine. March 18-20, Hangzhou, China.

139. Allmann E. and Y. Lu. Monitoring of Hawaiian Environmental Waters Using Enteric Viruses as A Potential Indicator- A Seasonal Study. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 8, 2013. Honolulu, Hawaii.
140. Wang Z. and Y. Lu. Test and Establishment of Optimized Laboratory Conditions for Effective Concentration and Recovery of Infectious Poliovirus from Environmental Waters. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 8, 2013. Honolulu, Hawaii.
141. Tong H.I., W. Kang, and Y. Lu. Genetically modified monocytes/macrophages – a potential therapeutics delivery approach for HIV-1 associated neurocognitive disorders. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 8, 2013. Honolulu, Hawaii.
142. Shi Y.L. and Y. Lu. Characterization of  $\beta$ -actin promoter activity from the pacific white shrimp, *Litopenaeus vannamei*. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 8, 2013. Honolulu, Hawaii.
143. Wu, C.X., V. Nerurkar, R. Yanagihara, and Y. Lu. New insights into inhibition of human immunodeficiency virus type 1 replication through mutant tRNA<sup>Lys3</sup>. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 8, 2013. Honolulu, Hawaii.
144. Lee, T., Zhang P., Jiang Z.Q., Zhang L.J., Li D.M, Zhou X.J, Maddock J., Yuan Z.K., and Lu Y. An Investigation on Knowledge, Attitude and Practice of Air Pollution in NanChang, China. Abstract of the 45<sup>th</sup> APACPH Conference, October 24-27, 2013, Wuhan, China.
145. Wang, Z and Y Lu. Effective concentration of infectious enteric viruses from environmental waters. Abstract of the 45<sup>th</sup> APACPH Conference, October 24-27, 2013, Wuhan, China.
146. Zhang, L.J, P. Zhang, J.J. Zou, Z.G. Jiang, T. Lee, J. Maddock, Z.K. Yuan, Y. Lu. Concerns About Air Quality and Environmental Protection Among Residents of Nanchang, China. Abstract of the 45<sup>th</sup> APACPH Conference, October 24-27, 2013, Wuhan, China.
147. Allmann, E. and Y. Lu. Monitoring of Hawaiian Environmental Waters Using Enteric Viruses as A Potential Indicator- A Seasonal Study. Abstract of the 45<sup>th</sup> APACPH Conference, October 24-27, 2013, Wuhan, China.
148. T. H.I. and Y. Lu. Quantitative and Qualitative Assessment of Adoptive Transfer of Monocytes trafficking into Inflamed Brain Tissue. Abstract of 20<sup>th</sup> SNIP conference, March 26-29, 2014, New Orleans, Louisiana.
149. Shi, Y.L. and Y. Lu. Molecular Cloning and Functional Characterization of Newly Isolated Putative beta-Actin Promoter from Pacific White Shrimp, *Litopenaeus vannamei*. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 9, 2014. Honolulu, Hawaii.
150. Kang, W. and Y. Lu. Lentiviral Vector-Mediated Anti-HIV-1 Tat Minibody Gene Modified Macrophages Protects Against Tat Induced Neurotoxicity and HIV-1 Challenge in vitro. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 9, 2014. Honolulu, Hawaii.
151. Sun, S. and Y. Lu. Development of Optimal Methods for Effective Detection of Infectious Human Adenoviruses from Environmental Waters. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 9, 2014. Honolulu, Hawaii.

152. Tong. H.I. and Y. Lu. Quantitative and Qualitative Assessment of Adoptive Transfer of Monocytes trafficking into Inflamed Brain Tissue. Abstract of the Annual Biomedical Science Symposium of University of Hawaii, April 9, 2014. Honolulu, Hawaii.
153. Tong, H.I. and Y. Lu. Quantitative and qualitative assessment of adoptive transferred monocytes trafficking into acutely inflamed brain tissue. The American Society for Microbiology, Hawaii Branch Annual Spring Meeting, April 25, 2014. Honolulu, Hawaii.
154. Lu, Y. Cell Mediated Novel Gene Therapy for NeuroAIDS. The 6<sup>th</sup> Symposium on Emerging Viral Diseases. Institute of Virology of Chinese Academy of Sciences, Wuhan. October 23-25, 2014.
155. Tong HI and Y Lu. Quantitative and qualitative assessment of adoptive transferred monocytes trafficking into acutely inflamed brain tissue. American Society for Microbiology-Hawaii Branch Spring Meeting. Honolulu, Hawaii. April 25, 2015.
156. Tong HI and Y Lu. Monocytes trafficking and engraftment into acutely inflamed brain – A potential cell-based approach for delivering therapeutic drugs into the brain for NeuroAIDS and other neurological disorders. The 11th Annual Meeting of Chinese Society for Virology & The 6th Wuhan International Symposium on Modern Virology. Oct. 23-25, 2015 Wuhan.
157. Allmann E, Z Wang, S Sun, M Kirs, M Wong, Y Lu. Monitoring of hawaii's beaches water quality using enteric viruses as alternative indicators. 2<sup>nd</sup> Conference on Water Resource Sustainability ISSUES on Tropical Islandss. Honolulu, Hawaii December 1-3, 2015.
158. Zhu Hui, F Yuan, R Liu, ZK Yuan, and Y Lu. Monitoring of Poyang Lake water for sewage contamination using human enteric viruses as a potential indicators. The 49<sup>th</sup> APACPH conference. Tokyo, Japan. August 17-19, 2017.
159. Lu Y. Global Health Education and Research in Hawaii. Fudan Global Health Strategic Planning Conference. Shanghai, China. October 27-29, 2017.
160. Lu Y. HIV and TB co-infection – current trend and global health impact. The 50<sup>th</sup> APACPH conference. Sabah, Malaysia. September 12-14, 2018.

### **Invited Seminars/Lectures**

1. Can mutated tRNA be used as effective therapeutic approach for HIV-1 infection? Department of Microbiology, UHM. March 10, 1997.
2. Isolation and Identification of Causative Viruses of GSTFP. Department of Tropic Medicine and Medical Microbiology. February 25, 1998.
3. New evidence of virus etiology of green turtle fibropapilloma. Department of Microbiology, UHM. April 20, 1998.
4. New evidence for viral etiology of GTFP. Department of Microbiology, UHM November 29, 1999.
5. Analysis of CCR5 Genotypes among Various Ethnic Population. Department of Microbiology, UHM. November 13, 2000.
6. Inhibition of HIV-1 Replication in Brains Using mutated tRNA Primers. Bekesy Laboratory, Pacific Biomedical Research Center, UHM. April 2, 2001.
7. Novel Gene Therapy Approach for HIV-1 Infection. Cell and Molecular Biology, UHM October 26, 2002.
8. Gene Therapy against HIV-1. Zhongshan Medical University, Guangzhou, China. January 22, 2003.

9. Development of Gene Transfer Approaches for NeuroAIDS. Clinical AIDS Research Center, JABSOM, UHM, February 6, 2004.
10. Development of Gene Transfer Approaches for NeuroAIDS. Annual Conference of Specialized Neuroscience Research Programs. Marriott at Vanderbilt, Nashville, Tennessee, May 20, 2004.
11. Lentiviral Vector-Mediated Gene Transduction of Primary Cultures of Human Monocytes/Macrophages. Department of Microbiology, UHM. September 20, 2004.
12. Gene Therapy and Its Potential Application for NeuroAIDS. Guest lecture for Neurovirology, DTMMMP, JABSOM, UHM. September 29, 2004.
13. Characterization of Lentiviral Vector-Mediated Gene Transduction of Human Monocytes and Macrophages in vitro. College of Life sciences, Wuhan University, Wu, China, May 11, 2005.
14. Viral Vectors and Their Implication in Gene Therapy for the Central Nervous System. Guest lecture for Neurovirology, DTMMMP, JABSOM, UHM. October 12, 2005.
15. Viral Vector-Mediated Gene Transduction of Primary Cultures of Monocytes & Macrophages - A Novel Gene Transfer Approach for Neurological Disorders. Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China. December 21, 2005.
16. Animal Cell Cultures – Applications in Viral Disease Control and Biotechnology. College of Fisheries, Huanzhong Agricultural University, Wuhan, China, December 26, 2005.
17. Monocyte Transduction and Potential Implication in Neuronal Gene Therapy. Virology Institute, Chinese Academy of Sciences, Wuhan, China. January 13, 2006.
18. Production of Transgenic Shrimp Strain with Viral Resistance. Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China. May 9, 2006.
19. Molecular Biotechnology in Aquaculture - Disease Prevention and Controls. College of Fisheries, Huanzhong Agricultural University, Wuhan, China, May 14, 2006.
20. Modeling Monocytes Macrophages Based Gene Therapy for the NeuroAIDS. Shanghai National Animal Disease Center, Chinese Academy of Agriculture Sciences, September 15, 2006.
21. Viral Vectors and Their Implication in Gene Therapy for the Central Nervous System. Guest lecture for Neurovirology Class at the Department of Tropic medicine, microbiology and pharmacology, UHM. October 4, 2006.
22. Molecular-Based Gene Therapy for HIV-1 Infection in the Central Nervous System. Guest lecture for the Seminar course at the Department of Public Health Sciences, UHM. October 10, 2006.
23. Modeling of TNFR Based Gene Therapy for NeuroAIDS. Specialized Neuroscience Research program (SNRP) PAC meeting, University of Hawaii. March 15, 2007.
24. Molecular Based Gene Therapy for HIV-1 Infection in the Central Nervous System. Wuhan Bioengineering Institute, Wuhan. May 25, 2007.
25. Modeling Blood Hematopoietic Stem Cells for HIV-1 Gene Therapy. Wuhan Blood Center, Wuhan. May 31, 2007.
26. IPCR-Based DNA Walking for Sequencing Viral Genome of Putative Isolates. Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan. June 7, 2007.
27. Lentiviral Vector-Mediated High Level Expression of TNFR in Human Macrophages – A Potential Therapeutic Approach for NeuroAIDS. School of Public Health, Wuhan University, China. June 7, 2007.

28. IPCR – A Powerful Genomic-Walking Technique for Identifying Unknown sequences from Known Genomic DNA. Huazhong Agricultural University. June 8, 2007.
29. What's the cause of Green Sea Turtle Fibropapilloma – Marine Viruses? Zhongshan University, Guangzhou, China. June 13, 2007.
30. Construction and Characterization of Lentiviral Vector for Stable Expression of a Soluble Receptor for TNF - A Potential Strategy for Neuroprotection. NIH-RCMI Forum, University of Hawaii – JABSOM. September 13, 2007.
31. Viral Vector-Mediated Gene Expression in Primary Cultures of Mouse Monocytes and Macrophages – A Potential Model for Neuronal Gene Therapy. MBBE 651 (Signal Transduction and Gene Regulation), Department of Molecular Biosciences and Bioengineering, UHM. Oct 9, 2007.
32. Shrimp Promoter - Isolation & Potential Application in Marine Gene Transfer Biotechnology. Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan. November 27, 2007.
33. Molecular-Based Gene Therapy Approaches for NeuroAIDS. School of Public Health, Wuhan University, China. November 28, 2007.
34. Efficient Expression and Biological Function of TNFR in Lentiviral Vector-Transduced Macrophage Cells. Specialized Neuroscience Research program (SNRP) PAC meeting, University of Hawaii. January 16, 2008.
35. Research Activities *in* Environmental Health Lab of Dept. Public Health Sciences - Transgenic Shrimp. DPHS, January 17, 2008.
36. Molecular-Based Gene Therapy for HIV-1 Infection in the Central Nervous System. School of Public Health, Fudan University. Shanghai, China. February 26, 2008.
37. The Value of Laboratory Data for Characterizing, Understanding and Solving Environmental Health Problems. PH789, Department of Public Health Sciences, UHM. March 5, 2008.
38. Modeling Macrophage-Based Gene Therapy for HIV-1 Infection in the Central Nervous System. Baylor College of Medicine, Houston. Texas. April 3, 2008
39. Novel Gene Therapy for HIV-1 Infection – An *in vivo* Mouse Model. Laboratory of Animal Service, University of Hawaii. April 20, 2008.
40. Functional Characterization of A Newly Isolated Shrimp Promoter for Its Potential Application in Marine Gene Transfer Biotechnology. Shanghai Ocean University. June 11, 2008.
41. Important Application of Molecular Biology Technology in Medical Sciences. Sobei Medical Center, Yangzhou, China. June 13, 2008.
42. Functional Characterization of An Newly Isolated Shrimp Promoter for Its Potential Application in Marine Gene Transfer Biotechnology. Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan. June 16, 2008.
43. Marine Gene Transfer Biotechnology - A Potential Approach for Combating Viral Diseases of World Shrimp Aquaculture. Fisheries College, Huazhong Agricultural University, Wuhan. June 19, 2008.
43. Application of Molecular Biology Technology in Medical Sciences. School of Public Health, Wuhan University, Wuhan. June 23, 2008.



44. Lentiviral Vector-Mediated Stable Expression of TNFR in Monocyte-Derived Macrophages *in vitro* and *in vivo*. The U.S. NIH-RCMI Forum, University of Hawaii – JABSOM. September 11, 2008.
45. Modeling Monocyte-Macrophage Based Gene Delivery into the Brain – A Novel Therapeutic Strategy for NeuroAIDS. Cancer Research Center of Zhongshan University, Guangzhou. December 10, 2008.
46. Identification and Characterization of A More Sensitive Murine Microglial Cell Line for Murine Norovirus – A Potential Model for Human Norovirus. Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences. Shanghai. May 15, 2009.
47. A More Sensitive Murine Microglial Cell Line for Murine Norovirus – A Potential Model for Human Norovirus. School of Public Health, Wuhan University, Wuhan. May 20, 2009.
48. Establishment of A Sensitive *in vitro* Cell System for Murine Norovirus – A Model for Human Norovirus. Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan. May 26, 2009.
49. Modeling Monocyte-Macrophage Based Drug Delivery into the Central Nervous System. College of Life Sciences, Wuhan University. Wuhan. May 27, 2009.
50. Modeling Monocytes Based Gene Therapy for NeuroAIDS. The Fourth Military Medical University, Xian, China, March 29, 2010.
51. Island Health – Monitoring coastal waters using enteric viruses as an indicator. International Global Health Conference of APACPH. University of Colombo, Sri Lanka. June 5, 2010.
52. Novel Therapeutic Approaches for NeuroAIDS and Neurodegenerative Disorders. Department of Microbiology, UHM, October 8, 2010.
53. Human Enteric Viruses - A Potential Indicator for Water Contamination and Risk. School of Public Health 10<sup>th</sup> Anniversary Lecture, Wuhan University. May 18, 2011.
54. Beach Water Safety, Risk and New Indicators? Institute of Hydrobiology, The Chinese Academy of Sciences, Wuhan. May 24, 2011.
55. Beach Water Safety, Risk and New Indicators? Yangtze River Fisheries Research Institute, Chinese Academy of Fishery Sciences, Wuhan. May 29, 2011.
56. Monocyte-Macrophage Based Molecular Therapy for NeuroAIDS. Institute of Virology, The Chinese Academy of Sciences, Wuhan. June 1, 2011.
57. Monocyte-Macrophage Based Molecular Therapy for NeuroAIDS. Clinic Research Laboratory, JABSOM of University of Hawaii. July 7, 2011.
58. Human Enteric Viruses – An Indicator for Recreational Water Contamination. Symposium Speech at the 43<sup>rd</sup> APACPH Conference, October 2011, Seoul, Korea.
59. Development of methods to monitor for human pathogenic enteric viruses in Hawaii's recreational waters. The WRRC, UHM, November 3, 2011.
60. Human Enteric Viruses – An Indicator for Recreational Water Contamination, Disease Control and Prevention, Shanghai Municipal Center. February 13, 2012.
60. New Approaches for Enhanced Detection of Enteric Viruses from Environmental Waters. School of Public Health of Wuhan University. February 18, 2012.

61. Cell Mediated Novel Gene Therapy for NeuroAIDS. The 18<sup>th</sup> Society on Neuroimmune Pharmacology Conference, Honolulu, Hawaii. April 28, 2012.
62. Water Environment and Human Health - New Indicators for Water Monitoring. School of Public Health, Huazhong University of Science and Technology. June 12, 2012.
63. Cell Mediated Novel Gene Therapy for NeuroAIDS. Special Symposium for Infection and Immunity and Anti-viral therapy, Xian, China. June 16, 2012.
64. Application of Molecular Bioengineering in Medical Sciences. Hubei Engineering College. June 19, 2012.
65. Water Environment and Human Health - New Indicators for Water Monitoring. Environmental Ecology Institute, Huazhong University of Science & Technology, Wuhan China. June 21, 2012
66. Water Environment and Human Health - New Indicators for Water Monitoring. Institute of Hydrobiology, CAS, Wuhan China. July 2, 2012.
67. Cell Mediated Novel Gene Therapy for NeuroAIDS. Institute of Microbiology, Chinese Academy of Sciences, Beijing, China. July 9, 2012.
68. Breast Cancer in the US – An Overview. Wuhan International Symposium on Breast Cancer. Tongji Medical Hospital, Wuhan, China. October 13, 2012
69. Cell-mediated drug delivery into the brain - a potential therapy for NeuroAIDS. The Neuroscience & MR Research Program at Queen Medical center. Feb 22, 2013.
70. NeuroAIDS Therapy – Current Challenges and Future Directions. The 5<sup>th</sup> World Conference of Vaccine. Hangzhou, China. March 20, 2013.
71. Island Life and Health in Hawaii – New indicators for water quality and risk assessment. Hubei Engineering University, Hubei, China. June 4, 2013.
72. Island Life and Health in Hawaii – New indicators for water quality and risk assessment. Hubei University of Chinese Medicine, Hubei, China. June 6, 2013
73. Island Life and Health in Hawaii. School of Public Health, Nanchang University. Nanchang, Jiangxi, China. June 12, 2013
74. New indicators for the risk assessment of treated/reusing water for public use. Shengzheng Entry-Exit Inspection and Quarantine Station, Shengzheng, China. June 17, 2013.
75. Recreational Water and Public Health - Human Enteric Viruses as New Indicators. Shengzheng Academy of Environmental Sciences, Shengzheng, China. June 17, 2013.
76. Recreational Water and Public Health - Human Enteric Viruses as New Indicators. Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China. June 21, 2013.
77. HIV-1 Infection and AIDS – An Overview of Current Therapy and Challenges. SPH of Nanchang University, Nanchang, China. October 23, 2013.
78. HIV/AIDS – Current Therapy and Challenges. Symposium speech at the 45<sup>th</sup> APACPH conference, Wuhan, China. October 26, 2013.
79. Human Enteric Viruses – A potential indicator for Water Quality Monitoring. Nanchang University, Nanchang, Jiangxi, China. March 7, 2014.
80. Molecular Biotechnology Application in Biomedical Science. Nanchang University, Nanchang, Jiangxi, China. March 7, 2014.

81. HIV/AIDS – Current Therapy and Challenges. Symposium Summit on Current Hot Topics in Public Health in Xian, China. May 23-25, 2014
82. Ebola – Current outbreaks and Global Heal Impact. Wuhan University, Sept 28, 2014.
83. Ebola – Current outbreaks and Global Heal Impact. Nanchang University, October 22, 2014.
84. NeuroAIDS Therapy – Current Challenges and Future Directions. Nanchang University, October 23, 2014.
85. Cell Mediated Novel Gene Therapy for NeuroAIDS. The 6<sup>th</sup> Symposium on Emerging Viral Diseases. Institute of Virology of Chinese Academy of Sciences, October 29-31, 2014.
86. Oncogenic viruses & human cancers – An overview. School of Public Health, Nanchang University. May 28, 2015.
87. A putative shrimp promoter – promoting activity and functional genome analysis. Huazhang Agricultural University, Wuhan, June 2, 2015.
88. Hawaii islands – Environment, life and public health. Huazhong Agricultural University, Wuhan, June 25, 2015.
89. The Challenge of viral diseases on human health – from HIV-1 to MERS-CoV. Xiaogan Dept of Health. June 29, 2015.
90. From Ebola to MERS – the Role of Public Health In Preventing/Control of Infectious Diseases. Wuhan University, Wuhan, October 25, 2015.
91. The Essential Role of Public Health In Preventing/Control of Zoonotic Diseases – from Ebola to MERS. Nanchang University, Nanchang, October 27, 2015.
92. Current Outbreak of Zike Virus Infection and Its Potential Risk to Public Health. Wuhan University, Wuhan. Feb 23, 2016.
93. Zika Virus Outbreak and Its Health Risk to the Public. Nanchang University, Nanchang. Feb 25, 2016.
94. Hawaii Islands – Environment, Life, and Public Health. School of Public Health, Fudan University. February 27, 2016.
95. Environmental Water Monitoring and Risk Assessment. The Center for Disease Control of Zhoushan. June 24, 2016.
96. Hawaii Life and Health. 1<sup>st</sup> High School of Xiaogang, Hubei. June 29, 2016.
97. The Challenging Impact of Emerging Viral Pathogens on Human Health—form HIV-1 to Zika Virus. Huazhong Agricultural University, Wuhan, China. July 1, 2016.
98. Water Scarcity on Global Health – Challenges and Prospective. Global Health Center of Wuhan University. October 9, 2016.
99. Impact of Water Crisis on Global Health. Nanchang University, Jiangxi. Oct 14, 2014.
100. Cell-Mediated Gene Therapy for NeuroAIDS. Department of Microbiology at the University of Hawaii at Manoa, Honolulu. November 14, 2016.
101. Human Cancer – Current Trends and Impact on Global Health. Jiangxi Medical School of Nanchang University. February 21, 2017.

102. Human enteric viruses and their potential application as an water quality indicator. Chinese Research Academy of Environmental Sciences. June 11, 2017.
103. Global Health Education and Research in Hawaii. Fudan Global Health Strategic Planning Conference. October 27-29, 2017.
104. How to select a research topic. School of Health Science of Wuhan University. November 2, 2017.
105. Superbugs – A growing threat to global health. School of Health Science of Wuhan University. March 2, 2018.
106. Hawaii Life and Public Health. Jiangxi University of Traditional Chinese Medicine. Nanchang, March 6, 2018.
107. Emerging infection disease from antibiotic resistant microbial pathogens – a major challenge to global health. School of Public Health, Nanchang University. March 7, 2018.
108. Superbugs – A growing treat to global health. Jiangxi University of Traditional Chinese Medicine. May 23, 2018
109. Island Life and Public Health in Hawaii. Shanghai University of Traditional Chinese Medicine. May 30, 2018.
110. Present trend and impact of HIV-TB coinfection on global health. School of Public Health of Wuhan University. September 4, 2018.
111. HIV-Tuberculosis coinfection: present trend and impact on global health. Jiangxi University of Traditional Chinese Medicine. September 6, 2018.
112. Viruses and human cancer – from the cause to the prevention. School of Public Health, Nanchang University. September 6, 2018.
113. HIV-TB co-infection – current trend and global health impact. The 50<sup>th</sup> APACPH Conference in University of Malaysia at Sabah. September 12-14, 2018.
114. Occurrence of TB-HIV co-infection and its associated public health impact. The Epidemiology and health Statistics Federation Annual Academic Conference. Chenzhou, Hunan. Oct 27, 2018.
115. How to prepare a publishable manuscript in a SCI/SSCI journal. Jiangxi University of Traditional Chinese Medicine. February 26, 2019.
116. How to publish your research findings in a SCI journal. School of Health Science, Wuhan University. March 4, 2019.

### **Students/Fellows: Trained/under training**

A total of 116 students/postdoctoral fellows/visiting scholars have been trained/under the training (9 are currently under training).