

CURRICULUM VITAE

Joseph Ajay Pathakamuri

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Education

Ph.D., Molecular Virology, 1998-2004
University of British Columbia, Vancouver, BC, Canada

Master of Technology, Biotechnology, 1996-1998
Jawaharlal Nehru Technological University, A.P., India

Master of Science, Virology, 1992-1994
Sri Venkateswara University, Tirupati, A.P., India

Bachelors of Science, Biology, Physics and Chemistry, 1989-1992
Sri Venkateswara University, Tirupati, A.P., India

Professional Experience

Professor, 2006 to Present
Dept of Biology, Franciscan University of Steubenville,
Steubenville, OH.
Area of Teaching: Biology and Nursing
Courses taught: Anatomy and Physiology, Medical Microbiology, Pathophysiology, Survey of biological sciences, Human Biology and Neurobiology
Area of research: Antibacterial and Brain-behavior studies using EEG

Post-Doctoral Fellow, 2003-2005
Dept of Psychiatry and Brain Research, University of British Columbia
Vancouver, BC, Canada.
Field of study: Molecular Neuroscience.
Project title: "Functional analysis of brain expressed RING finger protein (BERP) and its distribution studies in the brain."

Ph.D., Graduate Student, 1998-2003
Insect Molecular Virology Lab,
Pacific Agro-Food Research Centre and University of British Columbia,
Summerland, BC, Canada

Project Title: "Analysis of *Orgyia Pseudotsugata* Multiple Nucleopolyhedrovirus (OpMNPV) transcription factors role in viral DNA replication."
Field of study: Molecular Virology.

M.Tech., Thesis 1997-1998

Cellular and Molecular Biology department,
International Crops Research Institute for the Semi-Arid Tropics,
Patancheru, A.P., India
Field of Study: Biotechnology.

Project title: "Studies on the expression of soybean trypsin inhibitor (SBTI) gene in *Escherichia coli* and *Nicotiana tabacum*." This project involved developing insect resistant tobacco plant by expressing Soybean trypsin inhibitor gene (SBTI) isolated from Soybean.

M.Sc., Thesis, 1993-1994

Virology and Entomology departments,
S.V. University and S.V. Agriculture college,
Tirupati, A.P., India
Field of Study: Insect Virology.

Project title: "Studies on nucleopolyhedro viruses of *Heliothis armigera* and *Spodoptera litura*: purification, polypeptide analysis and serology". This project involved studying insect viruses with the long term goal to use them as microbial pesticides.

Publications

Pathakamuri, J. A., and D. A. Theilmann. 2002. The acidic activation domain of the baculovirus transactivator IE1 contains a virus-specific domain essential for DNA replication. *J Virol* 76:5598-604.

Dai X, Stewart TM, Pathakamuri JA, Li Q, Theilmann DA. 2004. *Autographa californica* multiple nucleopolyhedrovirus exon0 (orf141), which encodes a RING finger protein, is required for efficient production of budded virus. *J Virol*. 78(18):9633-44.

Pathakamuri, J. A., and D. A. Theilmann. Changing Acidic activation domain changes the specificity from OpMNPV replisome to AcMNPV replisome- AADs interact with virus specific replication proteins and activates replication (manuscript under preparation).

Schaefer, David J; Pathakamuri, Joseph; Sammut, Stephen; Karan, Kavita; "Emotional Arousal and Bollywood: Assessing Cortical Activation for Positive and Negative Content in Popular Hindi Cinema". published in book titled "Bollywood and Globalization: The Global Power of Popular Hindi Cinema." Routledge, 63: 167 (<http://routledge-ny.com/books/details/9780415625234/>)

Stone, B., Burke, B., Pathakamuri, J., Coleman, J., Kuebler, D. A Low-cost Method for Analyzing Seizure-like Activity and Movement in *Drosophila*. *J. Vis. Exp.* (84), e51460, doi:10.3791/51460 (2014).

Anatomy & Physiology lab manual, a photo atlas. Morton Publishing. ISBN 10: 1-61731-540-0. First published in July 2015

Joseph Irvin Carina Danchik Joseph Rall Annie Babcock Matthew Pine Devin Barnaby Joseph Pathakamuri Daniel Kuebler. Bioactivity and composition of a preserved connective tissue matrix derived from human placental tissue. J Biomed Mater Res B Appl Biomater. 2018 Nov;106(8):2731-2740

Abstracts/Paper Presentations

Pathakamuri, J. A., Fretier, P., Jinag, C., and Vincent, S. Functional analysis of Brain expressed RING finger protein (BERP). Pan American Advanced Study Institutes (PASI) program on unconventional myosins. Great falls, Montana August, 2005.

Functional analysis of AcMNPV exon0 (orf141) that codes for a novel RING finger protein. X Dai1, T Stewart, JA Pathakamuri, DA Theilmann. 36th Annual Meeting of Society for Invertebrate Pathology , Burlington, Vermont, USA. July 26-30, 2003

Pathakamuri, J. A., and D. A. Theilmann. IE1 activation of Viral DNA Replication in Presence of Homologous and Heterologous IE2s and Viral Replisomes. 22nd Annual Meeting of American Society of Virology (ASV), Davis, CA. July 12-16, 2003.

Pathakamuri, J. A., and D. A. Theilmann. Interchange of OpMNPV and AcMNPV replication factors restores the replication function of chimeric IE1 proteins. 35th Annual Meeting of Society for Invertebrate Pathology, Foz Do Iguassu, Brazil. August 18-23, 2002.

Pathakamuri, J. A., and D. A. Theilmann. Role of the acidic activation domain of OpMNPV IE1 in baculovirus DNA replication. 20th Annual Meeting of American Society of Virology, Madison, WI. July 21-25, 2001.

Pathakamuri, J.A., Qianjun Li, Lulin Li, Ilse Huijskens,Maynard Milks, Leslie G. Willis, David A. Theilmann. Characterization of exon0 (orf 138) of the OpMNPV. 19th Annual Meeting of American Society of Virology, Fort Collins, CO. July 08-12, 2000.

Schaefer, D., Pathakamuri, J., Sammut, S., & Karan, K. Bollywood and Emotional Arousal: Using EEG to Assess Positive and Negative Cortical Activity Among Viewers of Popular Indian Cinema in a Western Setting. 20th Annual Conference of Asian Media Information and Communication Center, Hyderabad, India, June 24-27, 2011.

David J. Schaefer; Joseph Pathakamuri; Stephen Sammut; Kavita Karan. Bollywood Cinema, Emotional Arousal, and Stereotypes: Assessing Cortical Activity Among Novice Viewers in a Western Setting. International Communication Association (ICA) conference in Phoenix, AZ, May 27, 2012.