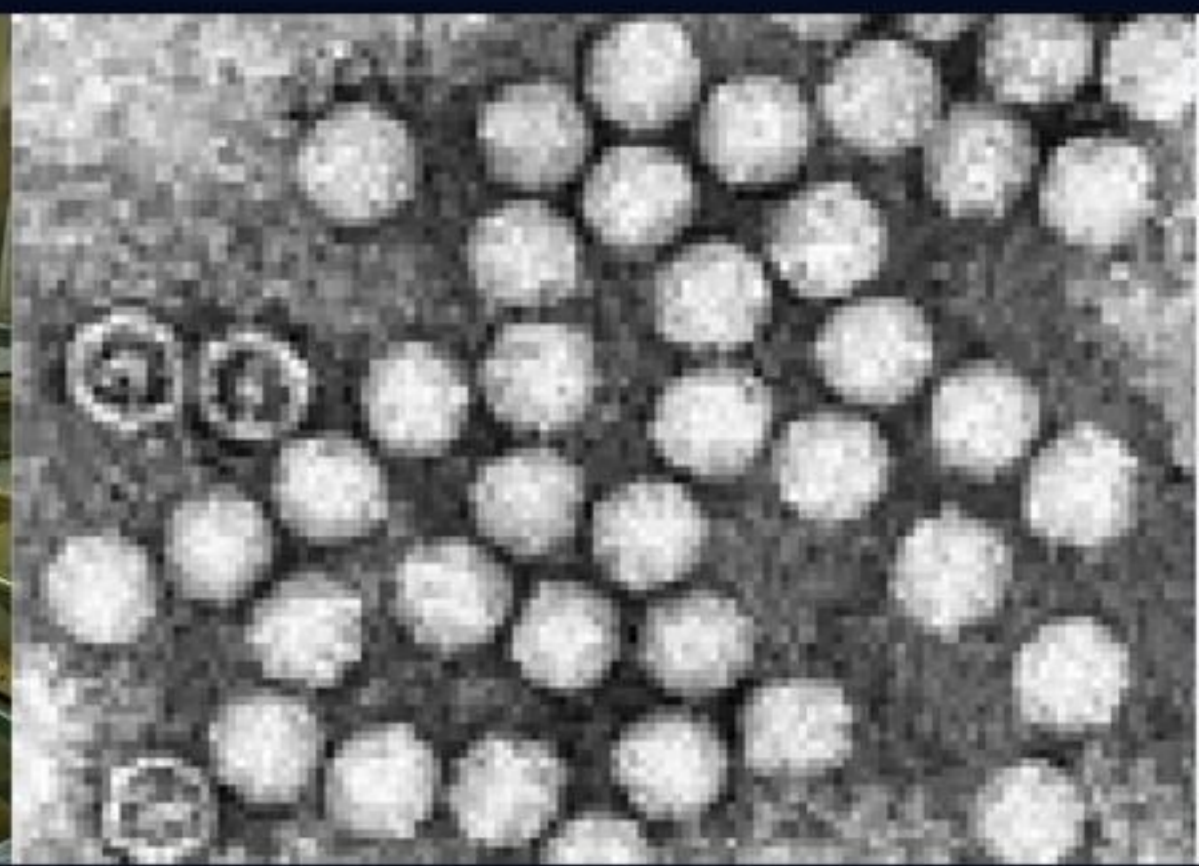


Dr. Chun-Keung Yu's Lab



Laboratory location 82-1138, 82-1148

Personal profile Dr. Chun-Keung Yu

Education

Ph.D., Experimental Pathology, Department of Comparative Medicine, University of Alabama at Birmingham, USA
B.V.M., Veterinary Medicine, National Taiwan University, Taiwan

Present position

Professor, National Cheng Kung University (2004 - present)
Consultant, National Laboratory Animal Center, National Applied Research Laboratories (2010 - present)
President, Chinese Association of Laboratory Animal Sciences (2008 - present)

Research interests

Dr. Yu's early research involved the pathogenesis of allergic asthma. In 1998, he commenced his work on enterovirus 71. His current interests are EV71 pathogenesis and cross reactivity of enteroviruses.

Lab members

1996	1998	1999	2000
謝沛諭 Pulmonary CD4 ⁺ CD8 ⁻ double-negative T cells in allergic inflammation and viral infection	劉怡霞 Influence of adjuvants on dust mite Dermatophagoides farinae -induced pulmonary inflammation in sensitized mice	謝哲民 Repeated intracheal inoculation of Dermatophagoides farinae induces chronic pulmonary eosinophilic inflammation and IgE production in mice	陳志忠 Cytokine expression on CD4 ⁺ CD8 ⁻ double-negative T cells in dust mite Dermatophagoides farinae induced allergic airway inflammation
			劉怡君 Mycobacterium bovis and respiratory syncytial virus infections modify the allergic responses induced by dust mite Dermatophagoides farinae in mice --- role of alveolar macrophages
2004	2003	2002	2001
陳志隆 House dust mite induces allergic sensitization and inflammation by activating the innate immunity	劉明亮 The role of type I interferon on enterovirus 71 infection in mice	姚奕全 The transmission route of enterovirus 71 in mice	周春婷 The toxic effect of an enterovirus 71 mutant in mice
		陳美鳳 N-acetylcysteine suppresses Dermatophagoides farinae-induced pulmonary inflammation in mice	李振婷 Role of nitric oxide, prostaglandin E2 and reactive oxygen species in allergic sensitization in mice
2004	2005	2006	
陳澤思 Enterovirus 71 causes central nervous system infection and pulmonary dysfunction in mice	吳得嘉 Cross-reactivity of Coxsackie A16 virus protects enterovirus 71 infection in mice	林士超 Study on enterovirus 71 neuroinvasion through disruption of blood-brain barrier	
		黃炫榕 Photodynamic inactivation of enterovirus 71 with methylene blue	
		黃思偉 Exogenous interleukin-6, interleukin-13 and interferon-gamma exacerbate pulmonary abnormality in enterovirus 71-infected mice	
2010	2009	2007	2006
張許恩 吳思瑩 周佳璇	李一平 Enterovirus 71 selectively blocks type I interferon synthesis through 3C viral protein in mice	葉玟伶 The 2C protein of enterovirus 71 down-regulates surface major histocompatibility complex class I	陳君瑋 Investigation on the feasibility of a combined vaccination with enterovirus 71 and a pentavalent vaccine
		蔡宜文 Cross-reactivity: the significance in EV71 infection	王雅芳 Exploration of the neurovirulence of enterovirus 71 with mouse-adapted strains

Selected publications

- Chen, C.-L., C.-T. Lee, Y.-C. Liu, J.-Y. Wang, H.-Y. Lei, and C.-K. Yu. 2003. House dust mite Dermatophagoides farinae augments proinflammatory mediator productions and accessory function of alveolar macrophages: implications for allergic sensitization and inflammation. *Journal of Immunology* 170:528-36.
- Wang, Y.-F., C.-T. Chou, H.-Y. Lei, C.-C. Liu, S.-M. Wang, J.-J. Yan, I.-J. Su, J.-R. Wang, T.-M. Yeh, S.-H. Chen, and C.-K. Yu. 2004. A mouse-adapted enterovirus 71 strain causes neurological disease in mice after oral infection. *Journal of Virology* 78:7916-24.
- Chen, C.-S., Y.-C. Yao, S.-C. Lin, Y.-P. Lee, Y.-F. Wang, J.-R. Wang, C.-C. Liu, H.-Y. Lei, and C.-K. Yu. 2007. Retrograde axonal transport: a major transmission route of enterovirus 71 in mice. *Journal of Virology* 81:8996-9003.
- Wu, T.-C., Y.-F. Wang, Y.-P. Lee, J.-R. Wang, C.-C. Liu, S.-M. Wang, H.-Y. Lei, I.-J. Su, and C.-K. Yu. 2007. Immunity to avirulent enterovirus 71 and coxsackie A16 virus protects against enterovirus 71 infection in mice. *Journal of Virology* 81:10310-5.
- Lee, Y.-P., Y.-F. Wang, S.-W. Huang, J.-R. Wang, and C.-K. Yu. 2010. Enterovirus 71 selectively blocks type I interferon synthesis through 3C viral protein in mice. Revised.