

## 7. Department of Pathology

- 1) Fukumoto H, Sato Y, Hasegawa H, Katano H: Frequent detection of Merkel cell polyomavirus DNA in sera of HIV-1-positive patients. *Virol J* 2013 Mar 13;10:84.
- 2) Shimodaira K, Okubo Y, Ochiai E, Nakayama H, Katano H, Wakayama M, Shinozaki M, Ishiwatari T, Sasai D, Tochigi N, Nemoto T, Saji T, Kamei K, Shibuya K: Gene expression analysis of a murine model with pulmonary vascular remodeling compared to end-stage IPAH lungs. *Respir Res* 2012, 13:103.
- 3) Ogawa-Goto K, Ueno T, Oshima K, Yamamoto H, Sasaki J, Fujita K, Sata T, Taniguchi S, Kanda Y, Katano H: Detection of active human cytomegalovirus by the promyelocytic leukemia body assay in cultures of PBMCs from patients undergoing hematopoietic stem cell transplantation. *J Med Virol* 2012, 84:479-486.
- 4) Nakano K, Katano H, Tadagaki K, Sato Y, Ohsaki E, Mori Y, Yamanishi K, Ueda K: Novel monoclonal antibodies for identification of multicentric Castleman's disease; Kaposi's sarcoma-associated herpesvirus-encoded vMIP-I and vMIP-II. *Virology* 2012, 425:95-102.
- 5) Nakajima N, Sato Y, Katano H, Hasegawa H, Kumasaka T, Hata S, Tanaka S, Amano T, Kasai T, Chong JM, Iiduka T, Nakazato I, Hino Y, Hamamatsu A, Horiguchi H, Tanaka T, Hasagawa A, Kanaya Y, Oku R, Oya T, Sata T: Histopathological and immunohistochemical findings of 20 autopsy cases with 2009 H1N1 virus infection. *Mod Pathol* 2012, 25:1-13.
- 6) Katano H, Sato S, Sekizuka T, Kinumaki A, Fukumoto H, Sato Y, Hasegawa H, Morikawa S, Saijo M, Mizutani T, Kuroda M: Pathogenic characterization of a cervical lymph node derived from a patient with Kawasaki disease. *Int J Clin Exp Pathol* 2012, 5:814-823.
- 7) Kamiyama T, Ohshima N, Satoh H, Fukumoto H, Katano H, Imakado S: Metachronous merkel cell carcinoma on both cheeks. *Acta Derm Venereol* 2012, 92:54-56.
- 8) Ishiwada N, Takada N, Okunishi T, Hishiki H, Katano H, Nakajima N, Kohno Y: Rhabdomyolysis associated with influenza A/H1N1 2009 infection in a pediatric patient. *Pediatr Int* 2012, 54:703-705.
- 9) Goto H, Kariya R, Shimamoto M, Kudo E, Taura M, Katano H, Okada S: Antitumor effect of berberine against primary effusion lymphoma via inhibition of NF-kappaB pathway. *Cancer Sci* 2012, 103:775-781.
- 10) Abordey A, Amissah DA, Aboagye IF, Hatano B, Yamazaki T, Sata T, Ishikawa K, Katano H: Detection of *Mycobacterium ulcerans* by the loop mediated isothermal amplification method. *PLoS Negl Trop Dis* 2012, 6:e1590.
- 11) Sugamata R, Dobashi H, Nagao T, Yamamoto K, Nakajima N, Sato Y, Aratani Y, Oshima M, Sata T, Kobayashi K, Kawachi S, Nakayama T, Suzuki K: Contribution of neutrophil-derived myeloperoxidase in the early phase of fulminant acute respiratory distress syndrome induced by influenza virus infection. *Microbiol Immunol*. 2012 Mar;56(3):171-182. (Epub 2011 Dec 30.)
- 12) Nakajima N, Van Tin N, Sato Y, Thach HN, Katano H, Diep PH, Kumasaka T, Thuy NT, Hasegawa H, San LT, Kawachi S, Liem NT, Suzuki K, Sata T : Pathological study of archival lung tissues from five fatal cases of avian H5N1 influenza in Vietnam. *Mod Pathol*. 2012 Nov 23. [Epub ahead of print]
- 13) Ohnishi K, Takahashi Y, Kono N, Nakajima N, Mizukoshi F, Misawa S, Yamamoto T, Mitsuki YY, Fu S, Hirayama N, Ohshima M, Ato M, Kageyama T, Odagiri T, Tashiro M, Kobayashi K, Itamura S, Tsunetsugu-Yokota Y: Newly established monoclonal antibodies for immunological detection of H5N1 influenza virus. *Jpn J Infect Dis*. 2012;65(1):19-27.

- 14) Tokunaga K: HIV-1 Vpu and BST-2/tetherin: Enemies at the Gates. *Current HIV Res.* 2012, 10: 275-276.
- 15) Arias JF, Iwabu Y, Tokunaga K: Sites of action of HIV-1 Vpu in BST-2/tetherin downregulation. *Current HIV Res.* 2012, 10: 283-291.
- 16) Fujita H, Fujimoto K, Tokunaga K, Tanaka Y: Intracellular Logistics of BST-2/Tetherin. *Current HIV Res* 2012, 10: 321-326.
- 17) Arias JF, Koyama T, Kinomoto M, Tokunaga K: Retroelements versus APOBEC3 family proteins: No great escape from the magnificent seven. *Front Microbiol* 2012, 3:275.
- 18) Zheng Y-H, Jeang K-T, Tokunaga K: Host Restriction Factors in Retroviral Infection: Promises in Virus-Host Interaction. *Retrovirology* 2012, 9:112.
- 19) Koyama T, Sun B, Tokunaga K, Tatsumi M, Ishizaka Y: DNA damage aids HIV-1 infection of macrophages by overcoming integrase inhibition. *Retrovirology* 2013, 10:21.
- 20) Chutiwittonchai N, Hiyoshi M, Hiyoshi-Yoshidomi Y, Hashimoto M, Tokunaga K, Suzu S: Characteristics of IFITM, the newly identified IFN-inducible anti-HIV-1 family proteins. *Microbes Infect* 2013, 15:280-290.
- 21) Fujita H, Iwabu Y, Tokunaga K, Tanaka Y: Membrane-associated RING-CH (MARCH) 8 mediates the ubiquitination and lysosomal degradation of the transferrin receptor. *J Cell Sci.* in press
- 22) Ainai A, Tamura S, Suzuki T, Ito R, Asanuma H, Tanimoto T, Gomi Y, Manabe S, Ishikawa T, Okuno Y, Odagiri T, Tashiro M, Sata T, Kurata T, Hasegawa H: Characterization of neutralizing antibodies in adults after intranasal vaccination with an inactivated influenza vaccine. *J Med Virol* 2012, Feb 84(2):336-344.
- 23) Nagakawa K, Niikura K, Suzuki T, Matsuo Y, Igarashi M, Sawa H, Ijiro K: Virus Capsid Coating of Gold Nanoparticles via Cysteine–Au Interactions and Their Effective Cellular Uptakes. *Chemistry Letters* 2012, Jan 41(1):113-115.
- 24) Takeuchi K, Nagata N, Kato SI, Ami Y, Suzuki Y, Suzuki T, Sato Y, Tsunetsugu-Yokota Y, Mori K, Van Nguyen N, Kimura H, Nagata K: Wild-type measles virus with the hemagglutinin protein of the edmonston vaccine strain retains wild-type tropism in macaques. *J Virol* 2012, Mar 86(6):3027-3037.
- 25) Suzuki T, Semba S, Sunden Y, Orba Y, Kobayashi S, Nagashima K, Kimura T, Hasegawa H, Sawa H: Role of JC virus agnogene in virion formation. *Microbiol Immunol* 2012, Sep 56(9):639-646.
- 26) van Riet E, Ainai A, Suzuki T, Hasegawa H: Mucosal IgA responses in influenza virus infections; thoughts for vaccine design. *Vaccine* 2012, Aug 31 30(40):5893-5900.
- 27) Sasaki I, Hoshino K, Sugiyama T, Yamazaki C, Yano T, Iizuka A, Hemmi H, Tanaka T, Saito M, Sugiyama M, Fukuda Y, Ohta T, Sato K, Ainai A, Suzuki T, Hasegawa H, Toyama-Sorimachi N, Kohara H, Nagasawa T, Kaisho T: Spi-B is critical for plasmacytoid dendritic cell function and development. *Blood* 2012, Dec 6 120(24):4733-4743.
- 28) Muto NA, Yoshida R, Suzuki T, Kobayashi S, Ozaki H, Fujikura D, Manzoor R, Muramatsu M, Takada A, Kimura T, Sawa H: Inhibitory effects of an M2-specific monoclonal antibody on different strains of influenza A virus. *Jpn J Vet Res* 2012, Aug 60(2-3):71-83.
- 29) Sakai K, Nagata N, Ami Y, Seki F, Suzuki Y, Iwata-Yoshikawa N, Suzuki T, Fukushi S, Mizutani T, Yoshikawa T, Otsuki N, Kurane I, Komase K, Yamaguchi R, Hasegawa H, Saijo M, Takeda M, Morikawa S: Lethal canine distemper virus outbreak in cynomolgus monkeys in Japan in 2008. *J Virol* 2013, Jan 87(2):1105-1114
- 30) Okamoto S, Yoshii H, Matsuura M, Kojima A, Ishikawa T, Akagi T, Akashi M, Takahashi M, Yamanishi K, and Mori Y: Poly- $\gamma$ -glutamic acid nanoparticles and aluminum adjuvant used as an

- adjuvant with a single dose of Japanese encephalitis virus-like particles provides effective protection from Japanese encephalitis virus. *Clin Vaccine Immunol* 2012, 19: 17-22.
- 31) Kuroda M, Sekizuka T, Shinya F, Takeuchi F, Kanno T, Sata T, Asano S: Detection of a Possible Bioterrorism Agent, Francisella sp., in a Clinical Specimen by Use of Next-Generation Direct DNA Sequencing. *J Clin Microbiol* 2012, 50(5):1810-1812.
- 32) Asano S, Mori K, Yamazaki K, Sata T, Kanno T, Sato Y, Kojima M, Fujita H, Akaike Y, Wakasa H: Temporal differences of onset between primary skin lesions and regional lymph node lesions for tularemia in Japan: a clinicopathologic and immunohistochemical study of 19 skin cases and 54 lymph node cases. *Virchows Arch* 2012, 460(6):651-658
- 33) Tseng CT, Sbrana E, Iwata-Yoshikawa N, Newman PC, Garron T, Atmar RL, Peters CJ, Couch RB: Immunization with SARS Coronavirus Vaccines Leads to Pulmonary Immunopathology on Challenge with the SARS Virus. *PLoS One* 2012, 7(4):e35421. Epub 2012 Apr 20.
- 34) Nomura T, Yamamoto H, Shiino T, Takahashi N, Nakane T, Iwamoto N, Ishii H, Tsukamoto T, Kawada M, Matsuoka S, Takeda A, Terahara K, Tsunetsugu-Yokota Y, Iwata-Yoshikawa N, Hasegawa H, Sata T, Naruse TK, Kimura A, Matano T: Association of major histocompatibility complex class I haplotypes with disease progression after simian immunodeficiency virus challenge in Burmese rhesus macaques. *J Virol* 2012, Jun 86(12):6481-6490.
- 35) Wang H, Yuan Z, Barnes E, Yuan M, Li C, Fu Y, Xia X, Li G, Newton P, Vongsouvath M, Klenerman P, Pybus OG, Murphy D, Abe K, Lu L: Eight novel hepatitis C virus genomes reveal the changing taxonomic structure of genotype 6. *J Gen Virol* 2013, 94: 76-80.
- 36) Zhang Y, Wu Y, Ye S, Wang T, Zhao R, Chen F, Abe K, Jin X: The response to interferon is influenced by hepatitis B virus genotype in vitro and in vivo. *Virus Res* 2013, 171: 65-70.
- 37) Pham VH, Nguyen TV, Nguyen TT, Dang LD, Hoang NH, Nguyen TV, Abe K: Rubella epidemic in Vietnam: characteristic of rubella virus genes from pregnant women and their fetuses/newborns with congenital rubella syndrome. *J Clin Virol* 2013, 57: 152-156.
- 38) Taniguchi S, Sayama Y, Nagata N, Ikegami T, Miranda ME, Watanabe S, Iizuka I, Fukushi S, Mizutani T, Ishii Y, Saijo M, Akashi H, Yoshikawa Y, Kyuwa S, Morikawa S: Analysis of the humoral immune responses among cynomolgus macaque naturally infected with Reston virus during the 1996 outbreak in the Philippines. *BMC Vet Res* 2012, Oct 11;8:189
- 39) Abe Y, Fujii K, Nagata N, Takeuchi O, Akira S, Oshiumi H, Matsumoto M, Seya T, Koike S: The toll-like receptor 3-mediated antiviral response is important for protection against poliovirus infection in poliovirus receptor transgenic mice. *J Virol* 2012, Jan 86(1):185-194.
- 40) Seto T, Nagata N, Yoshikawa K, Ichii O, Sanada T, Saasa N, Ozaki Y, Kon Y, Yoshii K, Takashima I, Kariwa H: Infection of Hantaan virus strain AA57 leading to pulmonary disease in laboratory mice. *Virus Res* 2012, Jan 163(1):284-290.
- 41) Wong KT, Ng KY, Ong KC, Ng WF, Shankar SK, Mahadevan A, Radotra B, Su IJ, Lau G, Ling AE, Chan KP, Macorellles P, Vallet S, Cardosa MJ, Desai A, Ravi V, Nagata N, Shimizu H, Takasaki T: Enterovirus 71 encephalomyelitis and Japanese encephalitis can be distinguished by topographic distribution of inflammation and specific intraneuronal detection of viral antigen and RNA. *Neuropathol Appl Neurobiol* 2012, Aug 38(5):443-453.
- 42) Nakato G, Hase K, Suzuki M, Kimura M, Ato M, Hanazato M, Tobiume M, Horiuchi M, Atarashi R, Nishida N, Watarai M, Imaoka K, Ohno H: Brucella abortus exploits a cellular prion protein on intestinal M

cells as an invasive receptor. *J Immunol* 2012, Aug 15;189(4):1540-1544.

- 43) Inoue N, Matsushita M, Fukui Y, Yamada S, Tsuda M, Higashi C, Kaneko K, Hasegawa H, Yamaguchi T: Identification of a varicella-zoster virus replication inhibitor that blocks capsid assembly by interacting with the floor domain of the major capsid protein. *J Virol* 2012, Nov 86(22):12198-12207.
- 44) Tanaka M, Kato A, Satoh Y, Ide T, Sagou K, Kimura K, Hasegawa H, Kawaguchi Y. Herpes simplex virus 1 VP22 regulates translocation of multiple viral and cellular proteins and promotes neurovirulence. *J Virol* 2012, May 86(9):5264-5277.