Dermatology

1. Staff's and Students (April 2009)

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Kazumi SAEKI , Yuki TAKEHARA,
Yuki MATSUSHIMA, Rika SEKINE,
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2. Purpose of Education

Dermatology is a department of medical science which educates students to make a diagnosis and treatment for skin diseases. Main objective of Dermatology in the graduate course is to provide students opportunity to study advanced Immunodermatology, physiology, pathology and allergology, and also to study making diagnosis of skin diseases and operation techniqes. Students are also taught on skin oncology (melanoma, angiosarcoma) and its related laboratory technology depending on their research project.

3. Research Subjects

- 1) Mechanisms of contact hypersensitivity
- 2) Pathological etiology of atopic dermatitis
- 3) Mechanisms of eosinophil recruitment to the skin
- 4) Roles of basophils in human skin diseases
- 5) Functional roles of PGD2 and its receptors in allergic inflammation
- 6) Therapeutic approach for skin diseases by stable form of galectin-9
- 7) Therapeutic approach for scleroderma by decoy oligodeoxynucleotides
- 8) Analysis of pathological mochanisms' of hyperhidrosis
- 9) Investigation of mediators for itch
- 10) Therapeutic approach for angiosarcoma with HVJ-E.
- 11) Pathological etiology of chronic prurigo

4. Clinical Services

Dermatology clinic provides an advanced treatment for skin diseases; skin tumors, infectious diseases, skin allergy, collagen diseases and psoriasis. Recently, we established the gene thearies (STAT6 decoy ODN) for severe atopic dermatitis in the clinic.

5. Publications

Original Article

- 1. Igawa K, Satoh T, Yokozeki H: A therapeutic effect of STAT6 decoy oligonucleotides ointment in atopic dermatitis: A pilot study in adults. Br J Dermatol. 160(5):1124-6, 2009.
- 2. Ugajin T, Kojima T, Mukai K, Obata K, Kawano Y, Eishi Y, Yokozeki H, Karasuyama H: Basophils preferentially express mouse mast cell protease 11 among the mast cell tryptase family in contrast to mast cells. Journal of Leukocyte Biology. 86(6):1417-25, 2009.

- 3. Okiyama N, Sugihara T, Iwakura Y, Yokozeki H, Miyasaka N, Kohsaka H: Therapeutic effects of IL-6 blockade on a murine model of polymyositis that does not require IL-17A. Arthritis and Rheumatism, 60(8):2505-12, 2009.
- 4. Satoh T, Shimura C, Miyagishi C, Yokozeki H: Indomethacin-induced reduction of CRTH2 in eosinophilic pustular folliculitis(Ofuji's disease): A proposed mechanism of action. Acta Derm Venereol (in press).
- 5. Shimura C, Satoh T, Takayama K, Yokozeki H: Methotrexate-related lymphoproliferative disorder with extensive vascular involvement in a patient with rheumatoid arthritis. J Am Acad Dermatol 61:126-129, 2009.
- 6. Shimura C, Satoh T, Igawa K, Aritake K, Urade Y, Nakamura M, Yokozeki H: Human dendritic cells express hematopoietic prostaglandin D synthase and function as a source of prostaglandin D2 in the skin. Am J Pathol (in press).
- 7. Tanaka T, Satoh T, Yokozeki H: Dental infection associated with nummular eczema as an overlooked focal infection. J Dermatol 36(8):462-5. 2009.
- 8. Tokoro S, Satoh T, Okubo Y, Igawa K, Yokozeki H: Latent dystrophic subcutaneous calcification in patients with chronic venous insufficiency.: Acta Derm Venereol. 89(5):505-8, 2009.
- 9. Passeron T, Namiki T, Passeron H, Le Pape E, Hearing VJ: Forskolin protects keratinocytes from ultraviolet (UV) B-induced apoptosis and increases DNA repair. J Invest Dermatol 129:162-166, 2009.
- Passeron T, Valencia JC, Namiki T, Vieria WD, Passeron H, Miyamura Y, Hearing VJ: Upregulation of SOX9 inhibits the growth of human and mouse melanomas and restores their sensitivity to retinoic acid. J Clin Invest. 119(4):954-963, 2009.
- 11. Nishigori K, Yamamoto T, Yokozeki H: Vesiculo-bullous dermatomyositis: report of three cases. Dermatol Online J, 15(4):6. 2009.
- 12. Nishizawa A, Nakano H, Satoh T, Takayama K, Sawamura D, Yokozaki H: Haber's syndrome may be a clinical entity different from Dowling-Degos disease. Br J Dermatol. 160(1):215-7, 2009.
- 13. Nishizawa A, Satoh T, Watanabe R, Takayama K, Nakano H, Sawamura D, Yokozeki H: Cowden syndrome:a novel mutation and overlooked glycogenic acanthosis in gingival. Br J Dermatol. 160: 1116-18, 2009.
- 14. Niwa H, Satoh T, Matsushima Y, Hosoya K, Saeki K, Niki T, Hirashima M, Yokozeki H: Stable form of galectin-9, a Tim-3 ligand, inhibits contact hypersensitivity and psoriatic. reactions: a potent therapeutic tool for Th1- and/or Th17-mediated skin inflammation. Clin Immunol. 132(2):184-94, 2009.
- 15. Yamamoto T, Takayama K, Igawa K, Yamanaka M, Ueno M, Yokozeki H: Eruptive sebaceous hyperplasia in association with chronic renal failure. Clin Exp Dermatol. 34(7):244-5, 2009.
- 16. Yahara H, Satoh T, Miyagishi C, Yokozeki H: Increased expression of CRTH2 on eosinophils in allergic skin diseases. J Eur Acad Dermmatol Venereol (Epub ahead of print)
- 17. Yukawa M, Satoh T, Takayama K, Yokozeki H: Cutaneous sarcoid reaction in a patient with bladder cancer. Eur J Dermatol (in press).
- Zhou G, Dada LA, Wu M, Kelly A, Trejo H, Zhou Q, Varga J, Sznajder JI: Hypoxia-induced alveolar epithelialmesenchymal transition requires mitochondrial ROS and hypoxia-inducible factor 1. Am J Physiol Lung Cell Mol Physiol. 297(6):1120-30, 2009.
- 19. Wu M, Melichian DS, de la Garza M, Gruner K, Bhattacharyya S, Barr L, Nair A, Shahrara S, Sporn PH, Mustoe TA, Tourtellotte WG, Varga J: Essential roles for early growth response transcription factor Egr-1 in tissue fibrosis and wound healing. Am J Pathol. 175(3):1041-55, 2009.
- 20. Bhattacharyya S, Ishida W, Wu M, Wilkes M, Mori Y, Hinchcliff M, Leof E, Varga J: A non-Smad mechanism of fibroblast activation by transforming growth factor-beta via c-Abl and Egr-1: selective modulation by imatinib mesylate. Oncogene, 28(10):1285-97, 2009.
- 21. Wu M, Melichian DS, Chang E, Warner-Blankenship M, Ghosh AK, Varga J: Rosiglitazone abrogates bleomycin-induced scleroderma and blocks profibrotic responses through peroxisome proliferator-activated receptor-gamma: Am J Pathol. 4(2):519-33, 2009.

Review Article

1. Ikuta T, Namiki T, Fujii-Kuriyama Y, Kawajiri K. AhR protein trafficking and function in the skin. Biochem Pharmacol 77(4):588-596, 2009.

Book