

# Dermatology

## 1. Staffs and Students (April 2010)

Professor	Hiroo YOKOZEKI	
Associate Professor	Takahiro SATOH	
Junior Associate Professor	Kaoru TAKAYAMA,	Takeshi NAMIKI
Assistant Professor	Aya NISHIZAWA, Eishi TAKAHASHI	Tomoko TANAKA,
Hospital Staff	Risa WATANABE, Tsukasa UGAJIN, Minako INASAWA, Nao OKUNO	Naoko OKIYAMA, Sayaka SHIBAMA, Naoko SHINOZUKA,
Secretary	Yukako KIKUCHI, Mina ARAI	Masae SAKATA,
Graduate students	Yoshihiro YAMAMOTO, Kazumi SAEKI , Rika SEKINE, Takashi HASHIMOTO, Naoko KATAOKA, Yasumasa KANAI,	Makiko UENO, Yuki TAKEHARA, Risako INOUE, Rie YU, Yuichi ITO, Akiko IMAI

## 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 techniques. 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 PGD<sub>2</sub> 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 mechanisms 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 therapies (STAT6 decoy ODN) for severe atopic dermatitis in the clinic.

## 5. Publications

### Original Article

1. Sugihara T, Okiyama N, Suzuki M, Kohyama K, Matsumoto Y, Miyasaka N, Kohsaka H : Definitive engagement of cytotoxic CD8 T cells in C-protein induced myositis, a murine model of polymyositis : Arthritis and Rheumatism. 62(10):3088-3092. 2010
2. Kato K, Satoh T, Tanaka T, Ueda N, Yokozeki H : Systemic nickel allergy presenting as papuloerythroderma-like eruptions : Acta Derm Venereol. 90(6):655-6, 2010

## Bioregulation

3. Satoh T, Shimura C, Miyagishi C, Yokozeki H: Indomethacin-induced reduction in CRTH2 in eosinophilic pustular folliculitis (Ofuji's disease): A proposed mechanism of action : *Acta Derm Venereol.* 90(1):18-22. 2010
4. Shimura C, Satoh T, Igawa K, Aritake K, Urade Y, Nakamura M, Yokozeki H : Dendritic cells express hematopoietic prostaglandin D synthase and function as a source of prostaglandin D2 in the skin : *Am J Pathol.* 176(1):227-37. 2010
5. Nishizawa A, Satoh T, Takayama K, Yokozeki H: Hydroa vacciniforme with mucosal involvement and recalcitrant periodontitis and multiple virus re-activators after sun-exposure : *Acta Derm Venereol.* 90(5):498-501. 2010
6. Hosoya H , Satoh T, Yamamoto Y, Saeki K, Igawa K, Okano M, Moriya T, Imamura O, Nemoto Y, Yokozeki H : Gene silencing of STAT6 with siRNA ameliorates contact hypersensitivity and allergic rhinitis : *Allergy.* Jan;66(1):124-31. 2010
7. Yukawa M, Satoh T, Takayama K, Yokozeki H : Cutaneous sarcoid reaction in a patient with bladder cancer : *Eur J Dermatol.* 20(2):235. 2010
8. Wada T, Ishiwata K, Koseki H, Ishikura T, Ugajin T, Ohnuma N, Obata K, Ishikawa R, Yoshikawa S, Mukai K, Kawano Y, Mineg, Yokishi Yozeki H, Watanabe N, Karasuyama H : Selective ablation of basophils in mice reveals their nonredundant role in acquired immunity against ticks : *J Clin Invest.* 2;120(8):2867-75. 2010
9. Wei J, Ghosh AK, Sargent JL, Komura K, Wu M, Huang QQ, Jain M, Whitfield ML, Feghali-Bostwick C, Varga J : PPAR $\gamma$  downregulation by TGF $\beta$  in fibroblast and impaired expression and function in systemic sclerosis: a novel mechanism for progressive fibrogenesis, *PLos one* 2;5(11):13778, 2010

## Review Article

## Book