

CURRICULUM VITAE

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Academic Background

1996-2000	Department of Plant Resource Sciences, College of Bioresource Sciences, Nihon University
2000-2002	Nihon University, Graduate School of Bioresource Sciences (Master Course)
2002-2003	Tokyo University of Agriculture and Technology, Graduate School of Bio-Applications and Systems Engineering (Doctor Course, leave school without a diploma)
2004-2007	Nihon University, Graduate School of Bioresource Sciences (Doctor Course)

Career Track

2003-2007	Associate Researcher (Nihon University)
2007-2008	Postdoctoral Fellow (Teikyo University)
2008-2011	Associate Scientist (Teikyo University)
2008-2009	Research Resident (Japan Health Sciences Foundation)
2010-2011	Research Resident (Association for Preventive Medicine of Japan)
2011-present	Associate Professor (Teikyo University)
2014-present	Part-time lecturer (Jumonji University)
2017-present	Part-time lecturer (Nihon University)

Membership

1. International Society for Human and Animal Mycology
2. Japanese Society for Medical Mycology
3. Japanese Society for Bacteriology
4. Japan Society for Bioscience, Biotechnology, and Agrochemistry
5. Japanese Society for Biological Sciences in Space

Awards

1. Dean's Award (2012) College of Bioresource Sciences, Nihon University
2. Young Scientist Award (2011) Japanese Society for Medical Mycology
3. Best Presentation Award (2010) Japanese Society for Medical Mycology
4. Best Poster Award (2010) Japanese Society for Medical Mycology

Publications

1. **Satoh K**, Yamazaki T, Nakayama T, Umeda Y, Alshahni MM, Makimura M, Makimura K 2016: Characterization of fungi isolated from the equipment used in the International Space Station or Space Shuttle. *Microbiol. Immunol.*, **60**, 295-302. doi: 10.1111/1348-0421.12375.
2. Mirhendi H, Motamedi M, Makimura K, **Satoh K** 2016: Development a diagnostic pan-dermatophyte TaqMan probe real-time PCR assay based on beta tubulin gene. *Mycoses* **59**, 520-527. doi: 10.1111/myc.12502.
3. Mirhoseini SH, Nikaeen M, **Satoh K**, Makimura K 2016: Assessment of airborne particles in indoor environments: applicability of particle counting for prediction of bioaerosol concentrations. *Aerosol Air Quali. Res.*, **16**, 1903–1910. doi: 10.4209/aaqr.2015.08.0528.
4. Ogawa H, Fujimura M, Ohkura N, **Satoh K**, Makimura K 2014: Impact of *Bjerkandera adusta* colonization on chronic cough. *Allergol Int*, **63**: 499-500. doi: 10.2332/allergolint.13-LE-0665.
5. Khodadadi H, Mirhendi H, Makimura K, **Satoh K**, Karimi L, Izadi S 2014: β -D-glucan assay in diagnosis and monitoring the systemic candidiasis in a rat model. *Jundishapur J Microbiol.* **7**, DOI: 10.5812/jjm.10247.
6. Takano M, Hoshi S, Nagai K, Ishidaira H, Onozaki M, **Satoh K**, Makimura K 2014: The first case of human protothecosis caused by *Prototheca zopfii* in Japan. *J Infect Chemother.* **20**, 647-649, doi: 10.1016/j.jiac.2014.06.009.

7. Rezaei-Matehkolaei A, Mirhendi H, Makimura K, de Hoog GS, **Satoh K**, Najafzadeh MJ, Shidfar MR 2014: Nucleotide sequence analysis of beta tubulin gene in a wide range of dermatophytes. *Med Mycol*. 52, 674-688. doi: 10.1093/mmy/myu033.
8. Terada M, Ohki E, Yamagishi Y, Mikamo H, Nishiyama Y, **Satoh K**, Uchida K, Yamaguchi H 2014: Fungal peritonitis associated with *Curvularia geniculata* and *Pithomyces* species in a patient with vulvar cancer who was successfully treated with oral voriconazole. *J Antibio*, **67**, 191-193. doi:10.1038/ja.2013.108.
9. Yamaura M, **Satoh K**, Yamazaki T, Ogawa H, Makimura K 2013: Specific detection of *Bjerkandera adusta* by polymerase chain reaction and its incidence in fungus-associated chronic cough. *Mycopathologia*, **176**, 337-343. doi: 10.1007/s11046-013-9711-7.
10. Onozaki M, Makimura K, **Satoh K**, Hasegawa A 2013: Detection and identification of genotypes of *Prototheca zopfii* in clinical samples by quantitative PCR analysis. *Jpn. J. Infect. Dis.*, **66**, 383-390.
11. Zarrinfar H, Mirhendi H, Makimura K, **Satoh K**, Khodadadi H, Paknejhad O 2013: Use of mycological, nested-PCR and real-time PCR methods on BAL fluids for detection of *Aspergillus fumigatus* and *A. flavus* in solid organ transplant recipients. *Mycopathologia*, **176**, 377-385. DOI 10.1007/s11046-013-9657-9.
12. Ogawa H, Fujimura M, Satoh K, Makimura K 2013: Re: Integrated research on the association between climate change and *Bjerkandera* allergy. *J. Aller. Clini. Immunol. In Practice*, **1**, 543.
13. **Satoh K**, Maeda M, Umeda Y, Sugamata M, Makimura K 2013: *Cryptococcus lacticolor* sp. nov. and *Rhodotorula oligophaga* sp. nov., novel yeasts isolated from the nasal smear microbiota of Queensland koalas kept in Japanese zoological parks. *Antonie van Leeuwenhoek*, **104**, 83-93. DOI 10.1007/s10482-013-9928-y.
14. Nouripour-Sisakht S, Rezaei-Matehkolaei A, Abastabar M, Najafzadeh MJ, **Satoh K**, Ahmadi B, Hosseinpour L 2013: *Microsporium fulvum*, an ignored pathogenic dermatophyte: a new clinical isolation from Iran. *Mycopathologia*, **176**, 157-160. DOI 10.1007/s11046-013-9665-9.
15. Zarrinfar H, Makimura K, **Satoh K**, Khodadadi H, Mirhendi H 2013: Incidence of pulmonary aspergillosis and correlation of conventional diagnostic methods with nested PCR and real-time PCR assay using BAL

- fluid in intensive care unit patients. *J Clin Lab Analy.*, **27**, 181-185.
16. Miyajima Y, **Satoh K**, Uchida T, Yamada T, Abe M, Watanabe S, Makimura M, Makimura K 2013: Rapid real-time diagnostic PCR for *Trichophyton rubrum* and *Trichophyton mentagrophytes* in patients with tinea unguium and tinea pedis using specific fluorescent probes. *J. Dermatol. Sci.*, **69**, 229-235.
 17. Rezaei-Matehkolaei A, Makimura K, de Hoog GS, Shidfar MR, **Satoh K**, Najafzadeh MJ, Mirhendi H 2012: Discrimination of *Trichophyton tonsurans* and *Trichophyton equinum* by PCR-RFLP and by β -tubulin and Translation Elongation Factor 1- α sequencing. *Med. Mycol.* **50**, 760-764. DOI: 10.3109/13693786.2012.661885.
 18. Ogawa H, Fujimura M, Takeuchi Y, makimura K, **Satoh K** 2012: The Definitive diagnostic process and successful treatment for ABPM caused by *Schizophyllum commune*: a report of two cases. *Allerg. Int.*, **61**, 163-169.
 19. Rezaei-Matehkolaei A, Makimura K, de Hoog GS, Shidfar MR, **Satoh K**, Najafzadeh MJ, Mirhendi H 2012: Multilocus differentiation of the relative dermatophytes *Microsporum canis*, *M. ferrugineum* and *M. audouinii*. *J Med Microbiol.*, **61**, 57-63. doi: 10.1099/jmm.0.036541-0
 20. **Satoh K**, Nishiyama Y, Yamazaki T, Sugita T, Tsukii Y, Takatori K, Benno Y, Makimura K 2011: Microbe-I: fungal biota analyses of the Japanese experimental module KIBO of the International Space Station before launch and after being in orbit for about 460 days. *Microbiol. Immunol.*, **55**, 823-829. doi: 10.1111/j.1348-0421.2011.00386.x.
 21. **Satoh K**, Maeda M, Umeda Y, Miyajima Y, Makimura K 2011: Detection and identification of probable endemic fungal pathogen, *Cryptococcus gattii*, and worldwide pathogen, *Cryptococcus neoformans*, by real-time PCR. *Microbiol. Immunol.*, **55**, 454-457. doi: 10.1111/j.1348-0421.2011.00324.x.
 22. Alshahni MM, Makimura K, **Satoh K**, Nishiyama Y, Kido N, Sawada T 2011: *Cryptococcus yokohamensis* sp. nov., a basidiomycetous yeast isolated from trees and Queensland koala kept in a Japanese zoological park. *Int. J. Syst. Evol. Microbiol.*, **61**, 3068-3071. doi: 10.1099/ijms.0.027144-0
 23. Ogawa H, Fujimura M, Takeuchi Y, Makimura K, **Satoh K** 2011: Sensitization to *Bjerkandera adusta* enhances severity of cough symptom

- in patients with fungus-associated chronic cough (FACC). *Med. Mycol. J.* **52**, 205-212.
24. Okazaki C, Wakusawa C, Chikama R, Murakami K, Hitomi H, **Satoh K**, Makimura K, Hiruma M. 2011: A case of cutaneous protothecosis in a polyarteritis nodosa patient and review of cases reported in Japan. *Dermatol. Online. J.*, Sep 15, 17(9), 2.
 25. Oguma T, Asano K, Tomomatsu K, Kodama M, Fukunaga K, Shiomi T, Ohmori N, Ueda S, Takihara T, Shiraishi Y, Sayama K, Kagawa S, Natori Y, Lilly CM, **Satoh K**, Makimura K, Ishizaka A 2011: Induction of mucin and MUC5AC expression by the protease activity of *Aspergillus fumigatus* in airway epithelial cells. *J. Immunol.*, **187**, 999-1005. doi: 10.4049/jimmunol.1002257.
 26. **Satoh K**, Ooe K, Nagayama H, Makimura K 2010: *Prototheca cutis* sp. nov., a newly discovered pathogen of protothecosis isolated from inflamed human skin. *Int. J. Syst. Evol. Microbiol.*, **60**, 1236-1240. doi 10.1099/ijs.0.016402-0
 27. Ito M, Yamada T, Makimura K, Ishihara Y, **Satoh K**, Kikuchi K, Nomura Y, Ishii Y, Abe S 2010: Intracellular serine protease from *Candida glabrata* species detected and analyzed by zymography. *Med. Mycol. Res.*, **1**, 29-35.
 28. **Satoh K**, Makimura K, Hasumi Y, Nishiyama Y, Uchida K, Yamaguchi H 2009: *Candida auris* sp. nov., a novel ascomycetous yeast isolated from the external ear canal of an inpatient in a Japanese hospital. *Microbiol. Immunol.*, **53**, 41-44. doi:10.1111/j.1348-0421.2008.00083.x
 29. Ebihara M, Makimura K, **Satoh K**, Abe S, Tsuboi R 2009: Molecular detection of dermatophytes and nondermatophytes in onychomycosis by nested polymerase chain reaction based on 28S ribosomal RNA gene sequences. *Br J Dermatol.*, **161**, 1038-1044. doi: 10.1111/j.1365-2133.2009.09249.x
 30. Kimura M, Udagawa S, Makimura K, **Satoh K**, Toyazaki N, Ito H 2009: Isolation and identification of *Rhizomucor pusillus* from pleural zygomycosis in an immunocompetent patient. *Med. Mycol.*, **47**, 869-873.
 31. Miyajima Y, **Satoh K**, Umeda Y, Makimura K 2009: Quantitation of fungal DNA contamination in commercial zymolyase and lyticase used in the preparation of fungi. *Jpn. J. Med. Mycol.*, **50**, 259-262.
 32. Yamamura M, Makimura K, Fujisaki R, **Satoh K**, Kawakami S, Nishiya H, Ota Y 2009: Polymerase chain reaction assay for specific identification

- of *Candida guilliermondii* (*Pichia guilliermondii*). *J. Infect. Chemother.*, **15(4)**, 214-215.
33. Nakaya A, Onodera Y, Nakagawa T, **Satoh K**, Takahashi R, Sasaki S, Tokuyama T 2009: Analysis of ammonia monooxygenase and archaeal 16S rRNA gene fragments in nitrifying acid-sulfate soil microcosms. *Microbes Environ.*, **24**, 168-174.
34. Alshahni MM, Makimura K, **Satoh K**, Ishihara Y, Takatori K, Kimura T, Sawada T 2009: A suggested pathogenic role of *Trichosporon montevidense* in a case of onychomycosis in a Japanese monkey. *J. Vet. Med. Sci.*, **71**, 983-986.
35. Alshahni MM, Makimura K, Yamada T, **Satoh K**, Ishihara Y, Takatori K, Sawada T 2009: Direct colony PCR of several medically important fungi using Ampdirect Plus. *Jpn. J. Infect. Dis.*, **62**, 164-167.
36. Yamada T, Makimura K, **Satoh K**, Umeda Y, Ishihara U, Abe S 2009: *Agrobacterium tumefaciens*-mediated transformation of the dermatophyte, *Trichophyton mentagrophytes*: an efficient tool for gene transfer. *Med. Mycol.*, **47**, 485-494.
37. **Satoh K**, Makimura K 2008: *Sporobolomyces koalae* sp. nov., a novel basidiomycetous yeast isolated from nasal smears of Queensland koalas kept in a Japanese zoological park. *Int. J. Syst. Evol. Microbiol.*, **58**, 2983-2986. doi: 10.1099/ij.s.0.2008/000307-0
38. **Satoh K**, Itoh C, Kang DJ, Sumida H, Takahashi R, Isobe K, Sasaki S, Tokuyama T 2007: Characteristics of newly isolated ammonia-oxidizing bacteria from acid sulfate soil and the rhizosphere of leucaena grown in that soil. *Soil Sci. Plant Nutr.*, **53**, 23-31. doi. 10.1111/j.1747-0765.2007.00101.x
39. **Satoh K**, Takahashi R, Tokuyama T 2006: The characteristics of thermotolerant sulfur-oxidizing bacterium, *Acidithiobacillus* sp. ORCS6 isolated from acid sulfate soil. *Environ. Inform. Sci. Extra, Papers Environ. Inform. Sci.*, **20**, 49-54.
40. Ida T, Takahashi R, **Satoh K**, Kogure M, Tokuyama T 2006: Classification of chemoautotrophic ammonia-oxidizing bacteria using pyruvate kinase genes as high resolution phylogenetic markers. *Soil Sci. Plant Nutr.*, **52**, 284-290. doi. 10.1111/j.1747-0765.2006.00036.x
41. **Satoh K**, Tanaka T, Oguro Y, Takahashi R, Tokuyama T 2004: Improvement of preservation method for ammonia-oxidizing bacteria by

- freeze-drying. *Soil Sci. Plant Nutr.*, **50**, 777-781. doi. 10.1080/00380768.2004.10408535.
42. **Satoh K**, Takizawa R, Sarai M, Sato N, Takahashi R, Tokuyama T 2004: Two kinds of ammonia-oxidizing bacteria isolated from biologically deodorizing plants in cold district. *J. Biosci. Bioeng.*, **98**, 207-210. doi. 10.1016/S1389-1723(04)00267-1
43. **Satoh K**, Toyota K 2004: Comparison of disease suppressiveness of different soils with or without repeated application of organic matters toward bacterial wilt of tomato caused by *Ralstonia solanacearum*. *Microbes Environ.* **19**, 310-314.
44. Tokuyama T, Mine A, Kamiyama K, Yabe R, **Satoh K**, Matsumoto H, Takahashi R, Itonaga K 2004: *Nitrosomonas communis* strain YNSRA, an ammonia-oxidizing bacterium, isolated from the Reed rhizoplane in an aquaponics plant. *J. Biosci. Bioeng.*, **98**, 309-312.
45. **Satoh K**, Yanagida T, Isobe K, Tomiyama H, Takahashi R, Tokuyama T 2003: Effect of root exudates on growth of newly isolated nitrifying bacteria from barley rhizoplane. *Soil Sci. Plant Nutr.*, **49**, 757-762.
46. Tomiyama H, Ohshima M, Ishii S, **Satoh K**, Takahashi R, Isobe K, Iwano H, Tokuyama T 2001: Characteristics of newly isolated nitrifying bacteria from rhizoplane of paddy rice. *Microbes Environ.*, **16**, 101-108.