CURRICULUM VITAE

Naomichi Yamamoto

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Education

Yale University, School of Engineering and Applied Science. 2012
Department of Chemical and Environmental Engineering
Postdoctoral in Environmental Engineering
Environmental Biotechnology Lab. (Advisor: Dr. Jordan Peccia)

The University of Tokyo, Graduate School of Frontier Sciences. 2006
Institute of Environmental Studies, Department of Environmental Systems
Ph.D. in Environmental Studies
Environmental Process Engineering Lab. (Advisor: Dr. Yukio Yanagisawa)

University of California, Los Angeles, School of Public Health. 2000
Department of Environmental Health Sciences
M.S. in Environmental Health Sciences
Air Quality Lab. (Advisor: Dr. Arthur M. Winer)

Waseda University, School of Science and Engineering, Tokyo. 1997
Department of Applied Physics
B. Eng. in Applied Physics
Radiation Molecular Physics and Chemistry Lab. (Advisor: Dr. Yoshimasa Hama)

Academic Experiences

08/2012–present
Seoul National University, Graduate School of Public Health, Department of Environmental Health Sciences
Assistant Professor (08/2012–08/2016) / Associate Professor (09/2016–present)

02/2009–07/2012
Yale University, School of Engineering and Applied Science, Department of Chemical and Environmental Engineering
Postdoctoral Fellow (02/2009–01/2011) / Postdoctoral Associate (02/2011–07/2012) / JSPS Postdoctoral Fellow for Research Abroad (02/2009–01/2011)

10/2006–03/2009
Hosei University, Graduate School of Engineering, Department of Material Chemistry
Adjunct Lecturer

04/2006–01/2009
Tokai University, School of Health Sciences, Department of Nursing
Researcher / JSPS Research Fellow (PD)

04/2006–01/2009
The University of Tokyo, Graduate School of Frontier Sciences, Department of Environmental Systems
Visiting Collaborative Researcher

04/2004–03/2007
National Institute of Public Health, Japan
Collaborative Researcher

12/2001–03/2006
The University of Tokyo, Graduate School of Frontier Sciences, Department of Environmental Systems
Ph.D. Student / COE Research Assistant (01/2003–03/2005) / Teaching Assistant (10/2003–03/2004) / Assistant of Industry-University-Government Collaboration (01/2006–03/2006)

01/2001–11/2001
University of California, Los Angeles, Southern California Particle Center and Supersite
Staff Research Associate

10/1998–12/2000
University of California, Los Angeles, School of Public Health, Department of Environmental Health Sciences
Master Student / Graduate Student Researcher (06/1999–08/2000)

Principal Areas of Research

Dr. Naomichi Yamamoto is an Associate Professor in the Department of Environmental Health Sciences at Seoul National University. His current research interests are in the areas of i) molecular ecology, ii) microbial ecology, and iii) aerobiology. His research team strives to explore ecological and human health problems by analyzing environmental DNA (eDNA) with genomics approaches such as DNA metabarcoding of bacterial 16S rDNA, eukaryotic ITS and other DNA markers.

Fellowships

02/2009–01/2011 JSPS Postdoctoral Fellowships for Research Abroad
04/2006–01/2009 JSPS Research Fellowships for Young Scientists (PD)

Research Grants as Principal Investigator

08/2018–07/2019
Brain Fusion Program, Seoul National University
Research title: Fecal analyses as a tool for wildlife ecology and public health associated with carnivore animals inhabiting Korea
Co-Investigators: Kimura, J., and Lee, W.-S.
Research grant: ₩ 75,000,000

11/2015–10/2018
Small Grant for Exploratory Research (SGER) Program, National Research Foundation of Korea
Research title: Exploring a possibility of use of virus as an alternative of fungicides
Research grant: ₩ 251,355,000

05/2014–04/2016
Aspiring Researcher Program, Seoul National University
Research title: Biogeography of indoor fungi
Research grant: ₩ 200,000,000

06/2013–05/2016
General Researcher Program, National Research Foundation of Korea
Research title: Effects of biocides on fungal diversity, allergenicity, and drug resistance
Research grant: ₩ 150,354,000

11/2012–10/2013
Research Fund for International Professors, Seoul National University
Research title: Efficacy of biocides to eliminate airborne microbial pathogens
Co-Investigator: Yoon, C.S.
Research grant: ₩ 20,000,000

11/2012–10/2013
New Faculty Research Resettlement Fund, Seoul National University
Research title: Using the next generation sequencing technology to study airborne fungal communities
Research grant: ₩ 15,000,000

04/2006–01/2009
Grant-in-Aid for JSPS Fellows, Japan Society for the Promotion of Science
Research title: Children's exposure to aeroallergens
Research grant: ¥ 3,400,000

04/2004–03/2005
Sasakawa Scientific Research Grant, The Japan Science Society
Research title: Development of a separation technique for suspended particulate matters by chemical composition
Research grant: ¥ 500,000

12/2003
Travel Grant, The University of Tokyo
Participated conference: The 3rd Asian Aerosol Conference, Hong Kong, China
Travel grant: ¥ 60,000

Research Grants as Co-Investigator

01/2014–12/2015
R&D Program for Social Service, Ministry of Health and Welfare, Korea
Research title: Development of comprehensive management system for health care facility using multidisciplinary approach
Investigators: Lee, K. (PI), Yamamoto, N.
Research grant: ₩ 50,000,000 (N. Yamamoto's share)

04/2003–03/2004
Suzuki Foundation
Research title: Development of a passive aerosol sampler using microscopic observation
Investigators: Fujii, M. (PI), Yamamoto, N., Yanagisawa, Y.
Research grant: ¥ 1,500,000

04/2002–03/2003
Steel Industry Foundation for the Advancement of Environmental Protection Technology
Research title: Development of a passive aerosol sampler using a line-sensing optical microscope and image analysis
Investigators: Yanagisawa, Y. (PI), Yamamoto, N., Fujii, M.
Research grant: ¥ 1,500,000

07/1999–03/2000
Wilson Endowment Grant, Department of Community Health Sciences, University of California, Los Angeles
Research title: Improving public health in the Southern California
Investigators: Shendell, D.G. (PI), Sabin, L.D., Yamamoto, N., Guillebaud, C.

Patents

[3] Applicants; Yanagisawa, Y., Kurosaki, Y., Noguchi, M., Mizukoshi, A., Yamamoto, N.: Inventors; Yanagisawa, Y., Kurosaki, Y., Noguchi, M., Mizukosi, A., Yamamoto, N., *Mokushitu kenzai kara no aldehyde rui no housan wo yokusei suru houhou oyobi kono houhou ni yori aldehyde rui no housan no yokusi syori ga hodokosareta mokusitu kenzai* (Methods to inhibit aldehyde emissions from wood-based materials and the wood-based materials treated by these methods), *Kokai* number 2009-184232 (2009.08.20).

[2] Applicants; Sibata Scientific Technology Ltd.: Inventors; Shibata, M., Koyama, H., Saito, T., Yanagisawa, Y., Yamamoto, N., Oyama, N., Nakamura, T., *Gazoukaiseki no parameter ti no kennsyutu houhou oyobi gazousyori no parameter ti no kennsyutu program narabini sorera ni yotte kennsyutu sareta parameter ti wo mochiita keisuutaisyoubutu no keisuu houhou* (A threshold selection method in digital image analyses), *Kokai* number 2007-310491 (2007.11.29).

[1] Applicants; Sibata Scientific Technology Ltd.: Inventors; Yanagisawa, Y., Yamamoto, Y., Shibata, M., Koyama, H., Hikono, M., *Hihoshuu bussitsu hosyuuki* (A passive sampler for airborne coarse particles), *Kokai* number 2007-10555 (2007.01.18).

Book Chapter

[1] Yamamoto, N. (2013). "Real-time PCR assay in fungi" Chapter 28 in *Laboratory protocol in fungal biology: Current methods in fungal biology*, Eds. Gupta, V.K., Tuohy, M., Ayyachamy, M., Turner, K.M., O'Donovan, A., Springer, ISBN 978-1-4614-2355-3.

Journal Articles

[55] Kumari, P., Dong, K., Eo, K.Y., Lee, W.-S., Kimura, J., Yamamoto, N.* (2019). DNA metabarcoding-based diet survey for the Eurasian otter (*Lutra lutra*): Development of a Eurasian otter-specific blocking oligonucleotide for 12S rRNA gene sequencing for vertebrates, *PLoS ONE 4*, (12) e0226253.

[54] Dong, K., Woo, C., Yamamoto, N.* (2019). Plant assemblages in atmospheric deposition, *Atmospheric Chemistry and Physics 19*, (18) 11969–11983.

[53] Newsham, K.K.*, Tripathi, B.M., Dong, K., Yamamoto, N., Adams, J.M., Hopkins, D.W. (2019). Bacterial community composition and diversity respond to nutrient amendment but not warming in a southern maritime Antarctic soil, *Microbial Ecology 78*, (4) 974–984.

[52] Luhung, I., Wu, Y., Xu, S., Yamamoto, N., Chang, V.W.C.*, Nazaroff, W.W. (2018). Exploring temporal patterns of bacterial and fungal DNA accumulation on a ventilation system filter for a Singapore university library, *PLoS ONE 13*, (7) e0200820.

[51] Woo, C., An, C., Xu, S., Yi, S.-M., Yamamoto, N.* (2018). Taxonomic diversity of fungi deposited from the atmosphere, *ISME Journal 12*, (8) 2051–2060.

[50] Mizukoshi, M.*, Kurosaki, Y., Yamamoto, N., Noguchi , M., Iizuka, A., Yamasaki, A., Yanagisawa, Y. (2018). Reduction of acetaldehyde formation from pulverized solid woods by thermal and chemical treatments, *Wood Science and Technology 52*, (2) 567–579.

[49] An, C., Woo, C., Yamamoto, N.* (2018). Introducing DNA-based methods to compare fungal microbiota and concentrations in indoor, outdoor, and personal air, *Aerobiologia 34*, (1) 1–12.

[48] Luhung, I., Wu, Y., Xu, S., Yamamoto, N., Chang, V.W.C.*, Nazaroff, W.W. (2017). DNA accumulation on ventilation system filters in university buildings in Singapore, *PLoS ONE 12*, (10) e0186295.

[47] Xu, S., Yamamoto, N.* (2017). mRNA-Seq reveals accumulation followed by reduction of small nuclear and nucleolar RNAs in yeast exposed to antiviral ribavirin, *FEMS Yeast Research 17*, (7) fox067.

[46] Dong, K., Moroenyane, I., Tripathi, B., Kerfahi, D., Takahashi, K., Yamamoto, N., An, C., Cho, H., Adams, J.* (2017). Soil nematodes show a mid-elevation diversity maximum and elevational zonation on Mt. Norikura, Japan, *Scientific Reports 7*, 3028.

[45] An, C., Okamoto, Y., Xu, S., Eo, K.Y.*, Kimura, J., Yamamoto, N.* (2017). Comparison of fecal microbiota of three captive carnivore species inhabiting Korea, *Journal of Veterinary Medical Science 79*, (3) 542–546.

[44] Kumari, P.*, Woo, C., Yamamoto, N., Choi, H.-L.* (2016). Variations in abundance, diversity and community composition of airborne fungi in swine houses across seasons, *Scientific Reports 6*, 37929.

[43] Lee, S., An, C., Xu, S., Lee, S., Yamamoto, N.* (2016). High-throughput sequencing reveals unprecedented diversities of *Aspergillus* species in outdoor air, *Letters in Applied Microbiology 63*, (3) 165–171.

[42] Xu, S., An, C., Kim, S., Lee, S., Lee, K., Yamamoto, N.* (2016). Effects of the biocides on the culturable house dust-borne bacterial compositions and diversities, *Human and Ecological Risk Assessment 22*, (5) 1133–1146.

[41] An, C., Yamamoto, N.* (2016). Fungal compositions and diversities on indoor surfaces with visible mold growths in residential buildings in the Seoul Capital Area of South Korea, *Indoor Air 26*, (5) 714–723.

[40] Lee, S., Yamamoto, N.* (2015). Accuracy of the high-throughput amplicon sequencing to identify species within the genus *Aspergillus*, *Fungal Biology 119*, (12) 1311–1321.

[39] Mizukoshi, M.*, Kumagai, K., Yamamoto, N., Noguchi , M., Yoshiuchi, K., Kumano, H., Ozawa, M., Matsui, T., Sakabe, K., Yanagisawa, Y. (2015). *In-situ* real-time monitoring of volatile organic compound exposure and heart rate variability for patients with multiple chemical sensitivity, *International Journal of Environmental Research and Public Health 12*, (10) 12446–12465.

[38] Lee, S., Xu, S., Bivila, C.P., Lee, H., Park, M.S., Lim, Y.W., Yamamoto, N.* (2015). Triazole susceptibilities in thermotolerant fungal isolates from outdoor air in the Seoul Capital Area in South Korea, *PLoS ONE 10*, (9) e0138725.

[37] Yamamoto, N.*, Matsuki, Y., Yokoyama, H., Matsuki, H. (2015). Relationships among indoor, outdoor, and personal airborne Japanese cedar pollen counts, *PLoS ONE 10*, (6) e0131710.

[36] Yamamoto, N., Hospodsky, D., Dannemiller, K., Nazaroff, W.W., Peccia, J.* (2015). Indoor emissions as a primary source of airborne allergenic fungal particles in classrooms, *Environmental Science & Technology 49*, (8) 5098–5106.

[35] Lee, S., Kang, S., Bivila, C.P., Yoon, C.-Y., Yang, J., Yamamoto, N.* (2015). Removal of viable airborne fungi from indoor environments by benzalkonium chloride-based aerosol disinfectants, *Human and Ecological Risk Assessment 21*, (8) 2174–2191.

[34] Hospodsky, D., Yamamoto, N., Nazaroff, W.W., Miller, D., Gorthala, S., Peccia, J.* (2015). Characterizing airborne fungal and bacterial concentrations and emission rates in six occupied children's classrooms, *Indoor Air 25*, (6) 641–652.

[33] Yamamoto, N., Nazaroff, W.W., Peccia, J.* (2014). Assessing the aerodynamic diameters of taxon-specific fungal bioaerosols by quantitative PCR and next-generation DNA sequencing, *Journal of Aerosol Science 78*, 1–10.
[32] Yamamoto, N., Bibby, K.* (2014). Clustering of fungal community internal transcribed spacer sequence data obscures taxonomic diversity, *Environmental Microbiology 16*, (8) 2491–2500.
[31] Dannemiller, K., Lang-Yona, N., Yamamoto, N., Rudich, Y., Peccia, J.* (2014). Combining real-time PCR and next-generation DNA sequencing to provide quantitative comparisons of fungal aerosol populations, *Atmospheric Environment 84*, 113–121.
[30] Yamamoto, N., Dannemiller, K., Bibby, K., Peccia, J.* (2014). Identification accuracy and diversity reproducibility associated with internal transcribed spacer-based fungal taxonomic library preparation, *Environmental Microbiology 16*, (9) 2764–2776.
[29] Dannemiller, K., Reeves, D., Bibby, K., Yamamoto, N., Peccia, J.* (2014). Fungal High-throughput Taxonomic Identification tool for use with Next-Generation Sequencing (FHiTINGS), *Journal of Basic Microbiology 54*, (4) 315–321.
[28] Shendell, D.G.*, Mizan, S., Yamamoto, N., Peccia, J. (2012). Associations between quantitative measures of fungi in home floor dust and lung function among older adults with chronic respiratory disease: A pilot study, *Journal of Asthma 49*, (5) 502–509.
[27] Hospodsky, D., Qian, J., Nazaroff, W.W., Yamamoto, N., Rismani-Yazdi, H., Bibby, K., Peccia, J.* (2012). Human occupancy as a source of indoor airborne bacteria, *PLoS ONE 7*, (4) e34867.
[26] Lang-Yona, N., Dannemiller, K., Yamamoto, N., Burshtein, N., Peccia, J., Yarden, O., Rudich, Y.* (2012). Annual distribution of allergenic fungal spores in atmospheric particulate matter in the eastern Mediterranean: A comparative study between ergosterol and quantitative PCR analysis, *Atmospheric Chemistry and Physics 12*, 2681–2690.
[25] Yamamoto, N., Bibby, K., Qian, J., Hospodsky, D., Rismani-Yazdi, H., Nazaroff, W.W., Peccia, J.* (2012). Particle-size distributions and seasonal diversity of allergenic and pathogenic fungi in outdoor air, *ISME Journal 6*, (10) 1801–1811.
[24] Qian, J., Hospodsky, D., Yamamoto, N., Nazaroff, W.W., Peccia, J.* (2012). Size-resolved emission rates of airborne bacteria and fungi in an occupied classroom, *Indoor Air 22*, (4) 339–351.
[23] Shendell, D.G.*, Therkorn, J., Yamamoto, N., Kelly, S.W., Foster, C. (2012). Outdoor near-roadway, community and residential pollen, carbon dioxide and particulate matter measurements in the urban core of an agricultural region in central CA, *Atmospheric Environment 50*, 103–111.
[22] Yamamoto, N., Shendell, D.G.*, Peccia, J. (2011). Assessing allergenic fungi in house dust by floor wipe sampling and quantitative PCR, *Indoor Air 21*, (6) 521–530.
[21] Yamamoto, N.*, Schmechel, D., Chen, B.T., Lindsley, W.G., Peccia, J. (2011). Comparison of quantitative airborne fungi measurements by active and passive sampling methods, *Journal of Aerosol Science 42*, (8) 499–507.
[20] Low, S.Y., Dannemiller, K., Yao, M., Yamamoto, N., Peccia, J.* (2011). The allergenicity of *Aspergillus fumigatus* conidia is influenced by growth temperature, *Fungal Biology 115*, (7) 625–632.
[19] Shendell, D.G.*, Foster, C., Sexton, J., Roden, J., Yamamoto, N., Kelly, S.W., Chandler, L., Venables, M., Williams, S., Burr, S., Wagenleitner, V., Anderson, N. (2011). Knowledge and awareness of symptoms, triggers and treatment among older adults with asthma and/or COPD: Community-based participatory research in a central California county, *Journal of Asthma and Allergy Educators 2*, (2) 81–90.
[18] Mizukoshi, A.*, Kumagai, K., Yamamoto, N., Noguchi, M., Yoshiuchi, K., Kumano, H., Yanagisawa, Y. (2010). A novel methodology to evaluate health impacts caused by VOC exposures using real-time VOC and Holter monitors, *International Journal of Environmental Research and Public Health 7*, (12) 4127–4138.
[17] Hospodsky, D., Yamamoto, N., Peccia, J.* (2010). Accuracy, precision, and detection limits of quantitative PCR for airborne bacteria and fungi, *Applied and Environmental Microbiology 76*, (21) 7004–7012.
[16] Yamamoto, N.*, Nishikawa, J., Sakamoto, M., Shimizu, T., Matsuki, H. (2010). Indoor and outdoor concentrations of Japanese cedar pollens and total suspended particulates: A case study at a kindergarten in Japan, *Building and Environment 45*, (3) 792–797.
[15] Yamamoto, N.*, Kimura, M., Matsuki, H., Yanagisawa, Y. (2010). Optimization of a real-time PCR assay to quantitate airborne fungi collected on a gelatin filter, *Journal of Bioscience and Bioengineering 109*, (1) 83–88.
[14] Yamamoto, N.*, Shendell, D.G., Winer, A.M., Zhang, J. (2010). Residential air exchange rates in three major U.S. metropolitan areas: Results from the Relationship Among Indoor, Outdoor, and Personal Air Study 1999–2001, *Indoor Air 20*, (1) 85–90.

[13] Yamamoto, N.*, Matsuzaka, Y., Kimura, M., Matsuki, H., Yanagisawa, Y. (2009). Comparison of dry- and wet-based fine bead homogenizations to extract DNA from fungal spores, *Journal of Bioscience and Bioengineering 107,* (4) 464–470.

[12] Yamashita, K.*, Yamamoto, N., Mizukoshi, A., Noguchi, M., Ni, Y., Yanagisawa, Y. (2009). Compositions of volatile organic compounds emitted from melted virgin and waste plastic pellets, *Journal of the Air & Waste Management Association 59,* (3) 273–278.

[11] Yamamoto, N.*, Muramoto, A., Yoshinaga, J., Shibata, K., Endo, M., Endo, O., Hirabayashi, M., Tanabe, K., Goto, S., Yoneda, M., Shibata, Y. (2007). Comparison of carbonaceous aerosols in Tokyo before and after implementation of diesel exhaust restrictions, *Environmental Science & Technology 41,* (18) 6357–6362.

[10] Yamamoto, N.*, Matsuki, H., Yanagisawa, Y. (2007). Application of the personal aeroallergen sampler to assess personal exposures to Japanese cedar and cypress pollens, *Journal of Exposure Science and Environmental Epidemiology 17,* (7) 637–643.

[9] Yamamoto, N.*, Hikono, M., Koyama, H., Kumagai, K., Fujii, M., Yanagisawa, Y. (2006). A passive sampler for airborne coarse particles, *Journal of Aerosol Science 37,* (11) 1442–1454.

[8] Yamamoto, N.*, Takahashi, Y., Yoshinaga, J., Tanaka, A., Shibata, Y. (2006). Size distributions of soil particles adhered to children's hands, *Archives of Environmental Contamination and Toxicology 51,* (2) 157–163.

[7] Yamamoto, N.*, Kumagai, K., Fujii, M., Shendell, D.G., Endo, O., Yanagisawa, Y. (2005). Size dependent collection of micrometer-sized particles using nylon mesh, *Atmospheric Environment 39,* (20) 3675–3685.

[6] Endo, M., Yamamoto, N., Yoshinaga, J.*, Yanagisawa, Y., Endo, O., Goto, S., Yoneda, M., Shibata, Y., Morita, M. (2004). ^{14}C measurement for size-fractionated airborne particulate matters, *Atmospheric Environment 38,* (36) 6263–6267.

[5] Yamamoto, N.*, Shinozuka, Y., Kumagai, K., Fujii, M., Yanagisawa, Y. (2004). Particle size distribution quantification by microscopic observation, *Journal of Aerosol Science 35,* (10) 1225–1234.

[4] Yamamoto, N.*, Fujii, M., Kumagai, K., Yanagisawa, Y. (2004). Time course shift in particle penetration characteristics through capillary pore membrane filters, *Journal of Aerosol Science 35,* (6) 731–741.

[3] Shinohara, N.*, Fujii, M., Kumagai, K., Yamamoto, N., Yamasaki, A., Yanagisawa, Y. (2004). Field validation of an active sampling cartridge as a passive sampler for long-term carbonyl monitoring, *Journal of the Air & Waste Management Association 54,* (4) 419–424.

[2] Shibata, K., Endo, M., Yamamoto, N., Yoshinaga, J.*, Yanagisawa, Y., Endo, O., Goto, S., Yoneda, M., Shibata, Y., Morita, M. (2004). Temporal variation of radiocarbon concentration in airborne particulate matter in Tokyo, *Radiocarbon 46,* (1) 485–490.

[1] Yamamoto, N.*, Fujii, M., Endo, O., Kumagai, K., Yanagisawa, Y. (2002). Broad range observation of particle deposition on greased and non-greased impaction surfaces using a line-sensing optical microscope, *Journal of Aerosol Science 33,* (12) 1667–1679.

Short Communications, Preprints or Corrigenda

[4] Woo, C., An, C., Xu, S., Yi, S.-M., Yamamoto, N.* (2018). Correction: Taxonomic diversity of fungi deposited from the atmosphere, *ISME Journa*l, https://doi.org/10.1038/s41396-019-0534-5.

[3] Dong, K., Woo, C., Yamamoto, N.* (2019). Plant assemblages in atmospheric deposition, *Atmospheric Chemistry and Physics Discussions*, https://doi.org/10.5194/acp-2019-487.

[2] Lang-Yona, N., Dannemiller, K., Yamamoto, N., Burshtein, N., Peccia, J., Yarden, O., Rudich, Y.* (2011). Annual distribution of allergenic fungal spores in atmospheric particulate matter in the eastern mediterranean; a comparative study between ergosterol and quantitative PCR analysis, *Atmospheric Chemistry and Physics Discussions 11*, C12833–C12834.

[1] Yamamoto, N., Matsuki, H., Yanagisawa, Y., (2006). Application of the personal aeroallergen sampler (PAAS) to characterize children's exposures to aeroallergens, *Epidemiology 17,* (6) S291.

Refereed Proceedings Papers

[10] An, C., Yamamoto, N. (2016). Compositions of fungal species within the genus *Aspergillus* in visible molds in residential buildings in Seoul, South Korea, *Proceedings of the 14th International Conference on Indoor Air Quality and Climate*, paper ID: 161.

[9] Hospodsky, D., Yamamoto, N., Nazaroff, W.W., Peccia, J. (2014). Influence of occupancy and building characteristics on the source strengths of bacteria and fungi in the classroom air of primary schools, *Proceedings of the 13th International Conference on Indoor Air Quality and Climate*, 229–231.

[8] Dannemiller, K.C., Yamamoto, N., Bibby, K., Peccia, J. (2014). Improving the quantification of fungal population analysis by next-generation DNA sequencing, *Proceedings of the 13th International Conference on Indoor Air Quality and Climate*, 917–919.

[7] Nazaroff, W.W., Hospodsky, D., Qian, J., Yamamoto, N., Peccia, J. (2012). Quantitative microbial population characterization to reveal sources of bacteria in indoor air, *Proceedings of 10th International Conference on Healthy Buildings*, 1, 581–582.

[6] Low, S.Y., Dannemiller, K., Yao, M., Yamamoto, N., Peccia, J. (2011). Growth temperature strongly influences the allergenicity of Aspergillus fumigatus spores, *Proceedings of the 12th International Conference on Indoor Air Quality and Climate*, 3, 2440–2441.

[5] Hospodsky, D., Qian, J., Yamamoto, N., Nazaroff, W., Peccia, J. (2011) Size-fractionated emissions and microbial population characterization to reveal sources of bacteria in indoor air, *Proceedings of the 12th International Conference on Indoor Air Quality and Climate*, 1, 479–480.

[4] Shendell, D.G., Lin, L., Fan, Z., Yamamoto, N., Mizan, S., Foster, C. (2011). Exposure to phthalates in house dust: Community-based participatory research in a central California county on low- to middle-income older adults with asthma and/or COPD, *Proceedings of the 12th International Conference on Indoor Air Quality and Climate*, 3, 2503–2508.

[3] Yamamoto, N., Matsuzaka, Y., Kimura, M., Matsuki, H., Yanagisawa, Y. (2008). Detection of airborne fungi using DNA analysis, *Proceedings of the 11th International Conference on Indoor Air Quality and Climate*, paper ID: 392.

[2] Yamashita, K., Kumagai, K., Noguchi, M., Yamamoto, N., Ni, Y., Mizukoshi, A., Yanagisawa, Y. (2007). VOC emissions from waste plastics during melting processes, *IAQVEC 2007 Proceedings - 6th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings: Sustainable Built Environment, 2*, 407–412.

[1] Mizukoshi, A., Kumagai, K., Yamamoto, N., Noguchi, M., Yoshiuchi, K., Kumano, H., Yanagisawa, Y. (2007). Real-time measurements of VOC exposure and heart rate variability in indoor and outdoor, *IAQVEC 2007 Proceedings - 6th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings: Sustainable Built Environment, 1*, 519–522.

Selected Invited Talks

[34] Yamamoto, N., Bioprecipitation: Its taxonomy and diversity. Presented at the School of Environmental Science and Engineering, Shandong University, Qingdao, China, 10/09, 2019.

[33] Yamamoto, N., Biodiversity of atmospheric deposition. Presented at the Air Microbiome Symposium, The Singapore Centre for Environmental Life Sciences Engineering (SCELSE), Singapore, 09/19–09/20, 2019.

[32] Yamamoto, N., DNA metabarcoding-based methods for indoor and atmospheric aerosol particles. Presented at the Biomedicine Educational Seminar, Korean Association for Particle and Aerosol Research (KAPAR), Yonsei University, Korea, 04/19, 2019.

[31] Yamamoto, N., Unravelling biodiversity in the air for public health and climate sciences. Presented at the Singapore Centre for Environmental Life Sciences Engineering (SCELSE), Singapore, 01/21–01/22, 2019.

[30] Yamamoto, N., Unravelling biodiversity in the atmosphere for public health and climate sciences. Presented at the 3rd Bioaerosol Symposium, Chang'an University, Xian, China, 11/30–12/02, 2018.

[29] Yamamoto, N., Molecular biology-based bioaerosol research from human health to climate sciences. Presented at the 4th International Symposium on Environmental Health, Seoul National University, Korea, 10/10, 2018.

[28] Yamamoto, N., Molecular biology-based bioaerosol research: from human health to climate sciences. Presented at the 27th International Korea Genome Organization Annual Conference, Seoul, Korea, 09/05–09/07, 2018.

[27] Yamamoto, N., Introduction to bioaerosols sciences. Presented at the School of Public Health, The University of Tokyo, Japan, 05/21, 2018.

[26] Yamamoto, N., Introducing molecular biology-based methods for fungal bioaerosol research. Presented at the 4th International Energy and Environmental Conference, Korea Institute of Science and Technology, Seoul, Korea, 11/28, 2017.

[25] Yamamoto, N., High-throughput sequencing as a tool to analyze medically important fungal pathogens and diversities. Presented at the 2017 4th International Conference on Biomedical and Bioinformatics Engineering (ICBBE 2017), Seoul, Korea, 11/12–11/13, 2017.

[24] Yamamoto, N., Fungi, diversities, and environmental health. Presented at the Department of Environmental Health, The Rollins School of Public Health of Emory University, Atlanta, Georgia, 11/02, 2017.

[23] Yamamoto, N., Fungi, diversities, and environmental health. Presented at the California Department of Public Health, Richmond, California, 10/26, 2017.
[22] Yamamoto, N., Fungi, diversities, and environmental health. Presented at the Graduate School of Arts and Sciences, The University of Tokyo, Japan, 10/21, 2017.
[21] Yamamoto, N., Indoor molds: Challenge to regulate them. Presented at the 3rd International Symposium on Environmental Health, Seoul National University, Korea, 02/14, 2017.
[20] Yamamoto, N., Fungal pathogens in the built environment. Presented at the Sloan Workshop on Infectious Disease Transmission in the Built Environment, Yale-NUS campus, Singapore, 01/12–01/13, 2017.
[19] Yamamoto, N., Indoor molds: Why it is difficult to regulate them? Presented at the International Symposium of the 2016 Annual Meeting of the Society of Indoor Environment, Japan, Tsukuba, Japan, 12/15, 2016.
[18] Yamamoto, N., A study of fecal microbiota of Korean carnivorous animals: An example of collaborative research between college of veterinary medicine and school of public health, Presented at the 2nd symposium for collaborative research between College of Veterinary Medicine, Graduate School of Dentistry, and Graduate School of Public Health at Seoul National University, Seoul, Korea, 10/25, 2016.
[17] Yamamoto, N., Fungal biomes and diversity and human health implications, Presented at the School of Civil and Environmental Engineering, Nanyang Technological University, Singapore, 06/22, 2016.
[16] Yamamoto, N., Fungal bioaerosol and public health, Presented at The School of Public Health, The University of Tokyo, Japan, 03/08, 2016.
[15] Yamamoto, N., Academic activities at SNU GSPH, Presented at the faculty development seminar, The School of Public Health, The University of Tokyo, Japan, 03/07, 2016.
[14] Yamamoto, N., Allergenic and pathogenic *Aspergillus* species in indoor and outdoor environments, Presented at the 2nd International Symposium on Environmental Health, Seoul National University, Korea, 02/15–02/16, 2016.
[13] Yamamoto, N., Using DNA sequence-based methods to study indoor fungal ecology, Presented at the 1st BK Plus CHEER International Workshop, Seoul National University, Korea, 02/05–02/06, 2015.
[12] Yamamoto, N., Bioaerosols and environmental health, Presented at the Department of Environmental Health, College of Health Science, Korea University, 05/20, 2013.
[11] Yamamoto, N., Using DNA-based methods to characterize indoor microbiome. Presented at the PeSeTo 2013 International Symposium on Public Health, Seoul, Korea, 05/06, 2013.
[10] Yamamoto, N., Bioaerosol and public health. Presented at the joint seminar of National Taiwan University and Seoul National University, Seoul, Korea, 04/18, 2013.
[9] Yamamoto, N., Applying molecular biology-based techniques to characterize indoor microbiomes. Presented at the Asan Medical Center, Seoul, Korea, 01/16, 2013.
[8] Yamamoto, N., Bioaerosols and public health, Presented at the Division of Occupational and Environmental Health, The Jockey Club School of Public Health and Primary Care, The Chinese University of Hong Kong, 12/14, 2012.
[7] Yamamoto, N., Molecular biology-based methods for understanding fungal ecology and human health impacts, Presented at the annual meeting of Korean Society of Environmental Health, Seoul, Korea, 10/19, 2012.
[6] Yamamoto, N., Molecular biology-based methods for understanding fungal ecology and human health impacts, Presented at the Seminar on Recent Environmental Issues hosted by the Department of Environmental Health, Seoul National University, Seoul, Korea, 09/27, 2012.
[5] Yamamoto, N., Molecular biology-based approaches for understanding fungal ecology and human health impacts, Presented at the Department of Environmental Health, Seoul National University, Seoul, Korea, 01/16, 2012.
[4] Yamamoto, N., Aerosol research for allergic airway diseases, Presented at the Department of Civil and Environmental Engineering, Tufts University, Medford, Massachusetts, 09/20, 2011.
[3] Yamamoto, N., Aerosol research for allergic airway diseases, Presented at The University of Texas School of Public Health, Houston, Texas, 05/16, 2011.
[2] Yamamoto, N., Kimura, M., Matsuki, H., Yanagisawa, Y., Quantification of airborne fungi using real-time PCR analysis, Presented at the 2nd China-Japan International Symposium on Indoor Air Pollution and Control, Shizuoka, Japan, 12/20, 2008.
[1] Yamamoto, N., A passive sampler for airborne allergens, Presented at China-Japan International Symposium on Indoor Air Pollution and Control, Hangzhou, China, 10/29–10/31, 2007.

Selected Conference Presentations

[44] Precha, N., Kliengchuay, W., Woo, C., Yamamoto, N., Tantrakarnapa, K. Fungal assemblages on indoor surfaces with visible mold growth in homes after the 2016 flood disaster in Thailand. Presented at the ISEE-ISES AC 2019, Daegu, Korea, 10/17–10/19, 2019.

[43] Yamamoto, N., Precha, N., Kliengchuay, W., Woo, C., Tantrakarnapa, K. Fungal assemblages on indoor moldy surfaces in homes in Korea and Thailand. Presented at the ISES ISIAQ 2019 Joint Annual Meeting, Kaunas, Lithuania, 08/18–08/22, 2019.

[42] Yamamoto, N., Woo, C., Dong, K., Xu, S. Taxonomic diversity of biological particles deposited from the atmosphere. Presented at 11th Asian Aerosol Conference (AAC) 2019, Hong Kong, China, 05/27–05/30, 2019.

[41] Dong, K., Tripathi, B., Moroenyane, I., Adams, J., Yamamoto, N. Stochasticity dominates the directional non-replacement accumulation of nematodes in a primary succession. Presented at the 17th International Symposium on Microbial Ecology (ISME17), Leipzig, Germany, 08/12–08/17, 2018.

[40] Yamamoto, N., Woo, C., Dong, K., An, C., Xu, S. Taxonomic diversity of the eukaryotic particles in the atmosphere. Presented at the 17th International Symposium on Microbial Ecology (ISME17), Leipzig, Germany, 08/12–08/17, 2018.

[39] Xu, S., Yamamoto, N., Curing of a killer factor in *Saccharomyces cerevisiae*. Presented at the 4th International Symposium on Environmental Health, Seoul National University, Korea, 02/05–02/06, 2018.

[38] Woo, C., Yamamoto, N., Octanol-water partition coefficients of airborne fungi. Presented at the American Association for Aerosol Research 36th Annual Conference, Raleigh, South Carolina, 10/16–10/20, 2017.

[37] An, C., Woo, C., Xu, S., Yamamoto, N., Fungal compositions in dry and wet deposition samples in Seoul, South Korea. Presented at the European Aerosol Conference EAC 2017, Zürich, Switzerland, 08/27–09/01, 2017.

[36] Xu, S., Yamamoto, N., Effects of ribavirin on global transcriptomes of the *Saccharomyces cerevisiae* strains. Presented at the 3rd International Symposium on Environmental Health, Seoul National University, Korea, 02/12–02/14, 2017.

[35] Xu, S., Yamamoto, N., Effects of ribavirin on global transcriptomes of the *Saccharomyces cerevisiae* strains, Presented at the 2017 3rd International Conference on Environment and Bio-Engineering (ICEBE 2017), Bangkok, Thailand, 01/21–01/23, 2017.

[34] Woo, C., McDowell, A., Kim, S., Yamamoto, N., Preliminary study of airborne fungal concentration in elderly people's houses in South Korea, Presented at the 2017 7th International Conference on Future Environment and Energy (ICFEE 2017), Penang, Malaysia, 01/08–01/10, 2017.

[33] Xu, S., Yamamoto, N., Characterization of global transcriptomes of *Saccharomyces cerevisiae* by RNA-Seq, Presented at the 2017 7th International Conference on Future Environment and Energy (ICFEE 2017), Penang, Malaysia, 01/08–01/10, 2017.

[32] Xu, S., Lee, K., Yamamoto, N., Comparison of fungal compositions and diversities in buildings in China, Korea, and Mongolia, Presented at the 2016 Annual Meeting of the Society of Indoor Environment, Japan, Tsukuba, Japan, 12/15–12/16, 2016.

[31] An, C., Woo, C., Yamamoto, N., Relationship among indoor, outdoor, and personal air fungal compositions and diversities, Presented at the 2016 Annual Meeting of the Society of Indoor Environment, Japan, Tsukuba, Japan, 12/15–12/16, 2016.

[30] An, C., Yamamoto, N., Compositions of fungal species within the genus *Aspergillus* in visible molds in residential buildings in Seoul, South Korea, Presented at the 14th International Conference on Indoor Air Quality and Climate, Ghent, Belgium, 07/03–07/08, 2016.

[29] An, C., Yamamoto, N., Fungal communities on indoor surfaces with visible mold growths in apartment houses in South Korea, Presented at the VI International Conference on Environmental, Industrial, and Applied Microbiology - BioMicroWorld 2015, Barcelona, Spain, 10/28–10/30, 2015.

[28] Yamamoto, N., Matsuki, Y., Matsuki, H., Personal exposure measurements of allergenic Japanese cedar and cypress pollens, Presented at the Conference on Environmental Health: current issues in Mongolia and Korea, Ulaanbaatar, Mongolia, 06/20–06/21, 2014.

[27] Lee, S., Bivila, C.P., Khang, S., Yoon, C.-Y., Yang, J., Yamamoto, N., Removal effects of benzalkonium chloride-based aerosol disinfectants on indoor airborne fungi, Presented at the 2014 International Aerosol Conference, Busan, Korea, 08/28–09/02, 2014.

[26] Dannemiller, K., Yamamoto, N., Bibby, K., Peccia, J., Improving the quantification of next-generation sequencing-derived fungal population analysis, Presented at the 13th International Conference on Indoor Air Quality and Climate, Hong Kong, 07/07–07/12, 2014.

[25] Hospodsky, D., Yamamoto, N., Nazaroff, W., Peccia, J., Influence of occupancy and building characteristics on the source strengths of bacteria and fungi in indoor air, Presented at the 13th International Conference on Indoor Air Quality and Climate, Hong Kong, 07/07–07/12, 2014.

[24] Hospodsky, D., Yamamoto, N., Nazaroff, W., Peccia, J., Indoor and outdoor size-resolved airborne microorganism to particle number ratios, Presented at the American Association for Aerosol Research 32nd Annual Conference, Portland, Oregon, 09/30–10/04, 2013.

[23] Dannemiller, K., Reeves, D., Bibby, K., Yamamoto, N., Peccia, J., Fungal High-throughput Taxonomic Identification tool for use with Next-Generation Sequencing (FHiTINGS), Presented at the Big Data Science: A Symposium in Honor of Martin Schultz, Yale University, New Haven, Connecticut, 10/26, 2012.

[22] Hospodsky, D., Qian, J., Yamamoto, N., Nazaroff, W., Peccia, J., Dense human occupancy is a source of indoor airborne bacteria, Presented at the American Association for Aerosol Research 30th Annual Conference, Orlando, Florida, 10/03–10/07, 2011.

[21] Shendell, D.G., Mizan, S.S., Yamamoto, N., Peccia, J., Associations between quantitative measures of fungi in home floor dust via wipe sampling and qPCR and lung function among older adults with chronic respiratory diseases, Presented at the 21st Annual Meeting of the International Society of Exposure Science, Baltimore, Maryland, 10/23–10/27, 2011.

[20] Shendell, D.G., Therkorn, J., Yamamoto, N., Kelly, S.W., Mizan, S., Foster, C., Sexton, J., Roden, J., Community-based participatory research in a central California county on clinical and home environmental management for low- to middle-income older adults with asthma and/or COPD, Presented at the National Environmental Health Association 75th Annual Educational Conference & Exhibition, Columbus, Ohio, 06/18–06/20, 2011.

[19] Hospodsky, D., Qian, J., Yamamoto, N., Nazaroff, W., Peccia, J., Size fractionated emission rates and characterization of airborne bacteria and fungi in indoor air, Presented at the 12th International Conference on Indoor Air Quality and Climate, Austin, Texas, 06/05–06/10, 2011.

[18] Shendell, D.G., Lin, L., Fan, Z., Yamamoto, N., Mizan, S., Foster, C., Exposure to phthalates in house dust and lung function: Community-based participatory research in a central California county on low- to middle-income older adults with asthma and/or COPD, Presented at the 12th International Conference on Indoor Air Quality and Climate, Austin, Texas, 06/05–06/10, 2011.

[17] Qian, J., Hospodsky, D., Yamamoto, N., Nazaroff, W., Peccia, J., Biological particle size distributions and aerosol dynamics in occupied and unoccupied indoor environments, Presented at the American Association for Aerosol Research 29th Annual Conference, Portland, Oregon, 10/25–10/29, 2010.

[16] Hospodsky, D., Yamamoto, N., Peccia, J., Accuracy, precision, and method detection limits of quantitative PCR for airborne bacteria and fungi, Presented at the American Association for Aerosol Research 29th Annual Conference, Portland, Oregon, 10/25–10/29, 2010.

[15] Yamamoto, N., Qian, J., Hospodsky, D., Peccia, J., Particle size distribution and seasonal concentrations of selected airborne fungi in the northeastern United States, Presented at the American Association for Aerosol Research 29th Annual Conference, Portland, Oregon, 10/25–10/29, 2010.

[14] Dannemiller, K., Yamamoto, N., Low, S.Y., Peccia, J., Development of a method for the detection of the allergenicity of *Aspergillus fumigatus* spores, Presented at the AIHce 2010, Denver, Colorado, 05/22–05/27, 2010.

[13] Shendell, D.G., Yamamoto, N., Kelly, S., Foster, C., Sexton, J., Roden, J., Outdoor community and residential pollen measurements in the urban core of an agricultural region: CBPR focused on low-to-middle income, older adults with asthma and/or COPD in central CA, Presented at the 138th APHA Annual Meeting, Denver, Colorado, 11/06–11/10, 2010.

[12] Qian, J., Hospodsky, D., Rismani-Yazdi, H., Yamamoto, N., Nazaroff, W., Peccia, J., Particle size distribution of biological material in indoor environments, Presented at the 28th Annual Conference of the American Association for Aerosol Research, Minneapolis, Minnesota, 10/26–10/30, 2009.

[11] Yamamoto, N., Matsuzaka, Y., Kimura, M., Matsuki, H., Yanagisawa, Y., Detection of airborne fungi using DNA analysis, Presented at the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Denmark, 08/17–08/22, 2008.

[10] Yamashita, K., Kumagai, K., Noguchi, M., Yamamoto, N., Ni, Y., Mizukoshi, A., Yanagisawa, Y., VOC emissions from waste plastics during melting processes, Presented at the 6th International Conference of Indoor Air Quality, Ventilation & Energy Conservation in Buildings 2007, Miyagi, Japan, 10/28–10/31, 2007.

[9] Mizukoshi, A., Kumagai, K., Yamamoto, N., Noguchi, M., Yoshiuchi, K., Kumano, H., Yanagisawa, Y., Real-time measurements of VOC exposure and heart rate variability in indoor and outdoor, Presented at the 6th International Conference of Indoor Air Quality, Ventilation & Energy Conservation in Buildings 2007, Miyagi, Japan, 10/28–10/31, 2007.

[8] Yamamoto, N., Fujii, M., Matsuki, H., Yanagisawa, Y., Effect of screen meshes on settling plate samplings of airborne fungi, Presented at the 7th International Aerosol Conference, St. Paul, Minnesota, 09/10–09/15, 2006.

[7] Yamamoto, N., Matsuki, H., Yanagisawa, Y., Application of the personal aeroallergen sampler (PAAS) to characterize children's exposures to aeroallergens, Presented at the International Conference on Environmental Epidemiology and Exposure, Paris, France, 09/02–09/06, 2006.

[6] Muramoto, A., Yoshinaga, J., Yamamoto, N., Endo, O., Hirabayashi, M., Tanabe, K., Yoneda, M., Shibata, Y., Did diesel vehicle regulation of Tokyo affect $^{14}C/^{12}C$ of atmospheric particles? Presented at the 19th International ^{14}C Conference, Oxford, U.K., 04/03–04/07, 2006.

[5] Kumagai, K., Ni, Y., Yamamoto, N., Jona, M., Yamamoto, M., Nakai, S., Kouzaki, J., Yanagisawa, Y., The effect of lifestyle to indoor VOCs, Presented at the 14th Annual Conference of the International Society of Exposure Analysis, Philadelphia, Pennsylvania, 10/17–10/21, 2004.

[4] Yamamoto, N., Fujii, M., Endo, O., Kumagai, K., Yanagisawa, Y., Particle size distributions by collocated filtration and impaction -microscopic comparison-, Presented at the 3rd Asian Aerosol Conference, Hong Kong, China, 01/06–01/09, 2004.

[3] Shibata, K., Endo, M., Yamamoto, N., Yoshinaga, J., Yanagisawa, Y., Endo, O., Goto, S., Yoneda, M., Shibata, Y., Morita, M., Temporal variation of radiocarbon concentration in airborne particulate matter in Tokyo, Presented at the 18th International ^{14}C Conference, Wellington, New Zealand, 09/01–09/05, 2003.

[2] Jaques, P., Colome, S., Avol, E., Grant, B., Thurairatnam, S., Yamamoto, N., Zhu, Y., Hinds, W.C., Froines, J.A., Mobile particulate matter research laboratory for comprehensive aerosol measurement in the Los Angeles Basin. Presented at the Association for American Aerosol Research Annual Conference, Portland, Oregon, 10/15–10/19, 2001.

[1] Shendell, D.G., Colome, S.D., Winer, A.M., Sabin, L.D., Yamamoto, N., Guillebaud, C., Site selection methodology for randomized subject recruitment in Los Angeles County, CA for the Relationship Among Indoor, Outdoor, and Personal Air Concentrations Study of fine particles and air toxics. Presented at the 10th Annual Meeting of the International Society of Exposure Analysis, Monterey, California, 10/24–10/27, 2000.

Classes Taught

Seoul National University (in English)

09/2013–present	903.577	*Global Environmental Health*, with a former title of *Special Topics on Environmental Health Problems in Asian countries*, 3 credits
03/2013–present	903.576	*Physics for Environmental Health Sciences*, 3 credits
03/2013–present	903.575	*Current Topics on Aerobiology and Public Health*, 3 credits
09/2012–present	903.574	*Aerobiology and Public Health*, 3 credits

Hosei University (in Japanese)

10/2006–03/2009	Y2018	*Environmental Hygienics*, 2 credits

Advisees -- Current Positions

Assistant research professors

03/2018–present	Priyanka Kumari
03/2017–02/2018	Ke Dong -- Assistant Professor at Kyonggi University
07/2014–03/2016	Choa An

Postdoctoral researcher

04/2014–08/2014	Birendra Tiwari -- Professor at Saint James School of Medicine

Ph.D. students

09/2018–present	Cheolwoon Woo
09/2015–02/2019	Siyu Xu -- Postdoctoral Fellow at Peking University
03/2013–02/2016	Seungeun Lee – Data Scientist at Wageningen Food Safety Research

Master's students

09/2016–02/2019	Umairah Kamarulzaman
03/2016–02/2018	Cheolwoon Woo
09/2013–06/2015	Siyu Xu

Assistant researchers

03/2018–08/2018	Cheolwoon Woo
01/2016–03/2016	So Mi Cho

11/2014–03/2016	Hyeyoung Lee
05/2013–02/2014	Bivila Chemmeri Padasseri

Doctoral Committees

Siyu Xu (2019). "Use of yeasts with dsRNA virus-like particles for investigating the transcriptome-level effects of antivirals" Seoul National University, Department of Environmental Health Sciences. Advisor: Naomichi Yamamoto.

Hyunjun Cho (2017). "Effects of disturbance and environmental gradients on soil microbial diversity and community structure" Seoul National University, College of Natural Sciences. Advisor: Jonathan Adams

Ke Dong (2017). "Ecological patterns in soil nematode diversity and community composition in two successional gradients" Seoul National University, College of Natural Sciences. Advisor: Jonathan Adams

Jiyeon Si (2016). "Associations of human vaginal and oral microbiota with metabolic syndrome" Seoul National University, Department of Environmental Health Sciences. Advisor: Gwangpyo Ko.

Priyanka Kumari (2016). "Assessment and mitigation of airborne contaminants from swine confinement buildings" Seoul National University, Department of Agricultural Biotechnology. Advisor: Hong Lim Choi.

Seungeun Lee (2016). "High-throughput sequencing-based identification of airborne *Aspergillus* species and their triazole susceptibilities" Seoul National University, Department of Environmental Health Sciences. Advisor: Naomichi Yamamoto.

Sunghee Lee (2015). "Functional study of gut and vaginal microflora using metagenomic analysis" Seoul National University, Department of Environmental Health. Advisor: Gwangpyo Ko.

Xiaoshan Liu (2013). "Endocrine disruption potentials and related mechanisms of major organophosphate flame retardants" Seoul National University, Department of Environmental Health. Advisor: Kyungho Choi.

University Services

03/2019–02/2021	Advisory member of SNU International Affairs Committee
11/2018	Organizer of the engineering/natural sciences session of The Workshop for Graduate School Abroad, SNU Office of International Affairs, 11/10, 2018
10/2018	Member of the organizing committee, 4th International Symposium of Environmental Health, 10/10, 2018
02/2017	Member of the organizing committee, 3rd International Symposium of Environmental Health, 02/13–02/14, 2017
05/2016–present	Advisor for international students at the Graduate School of Public Health, Seoul National University
02/2016	Member of the organizing committee, 2nd International Symposium of Environmental Health, 02/15–02/16, 2016
02/2016	Member of the organizing committee, NRF-EU FP Joint Training Network Program, 02/14, 2016
02/2015	Member of the science committee, 1st BK21 Plus CHEER International Workshop, 02/05–02/06, 2015
03/2013–present	Member of the laboratory management committee, Graduate School of Public Health, Seoul National University, Chair of the committee (03/2017–present)

Professional Society Affiliations

Member, International Society of Indoor Air Quality and Climate (ISIAQ)
Member, Japan Association of Aerosol Science and Technology
Member, Society of Indoor Environment, Japan
Member, Japan Society for Atmospheric Environment
Member, Japanese Society of Clinical Ecology
Member, Center for Environmental Information Science

Professional Society Services

07/2020	Member of the international scientific committee for the 16th Conference of the International Society of Indoor Air Quality & Climate (Indoor Air 2020) in Seoul, Korea

10/2019	Member of the science committee for the Joint Meeting of Asian Chapters of International Society for Environmental Epidemiology and the International Society of Exposure Science (ISEE-ISES AC 2019) in Daegu, Korea
07/2018	Member of the international scientific advisory committee for Indoor Air 2018 in Philadelphia, USA
06/2018	Member of the program committee of the Aerosol Technology, AT2018, in Bilbao, Spain
01/2017	Member of technical committee of the 2017 3rd International Conference on Environment and Bio-Engineering (ICEBE 2017)
01/2013–12/2018	Member of selection committee for the best paper award of the journal *Indoor Environment* published by the Society of Indoor Environment, Japan (01/2013–12/2014, 01/2017–12/2018)
01/2013–present	Member of the social partnership committee of the Society of Indoor Environment, Japan
04/2006–03/2009	Chair of the business committee of the Society of Indoor Environment, Japan

Editor

08/2018–09/2019	Guest editor for a special issue of "Sustainable Environmental Health Science and Engineering" in the journal *Sustainability* published by MDPI

Editorial Board

01/2019–12/2021	Member of the editorial board for the journal *Indoor Air* published by Wiley on behalf of the International Society of Indoor Air Quality and Climate (ISIAQ)
03/2013–present	Member of the editorial board for the *Journal of Environmental Health Sciences* published by the Korean Society of Environmental Health
07/2010–07/2014	Member of the editorial board for the journal *Indoor Environment* published by the Society of Indoor Environment, Japan

Journal Review Activities (number of review)

Acta Biochimica Polonica (1)
Aerobiologia (6)
Aerosol and Air Quality Research (1)
Aerosol Science & Technology (5)
Applied and Environmental Microbiology (1)
Archives of Environmental Contamination and Toxicology (1)
Atmosphere (2)
Atmospheric Chemistry and Physics (1)
Atmospheric Environment (2)
Atmospheric Pollution Research (1)
Bioresource Technology (1)
BMC Microbiology (1)
Building and Environment (2)
Canadian Journal of Microbiology (1)
Current Microbiology (1)
Ecology and Evolution (1)
Environmental Engineering Research (2)
Environmental Pollution (2)
Environmental Research (1)
Environmental Science & Technology (6)
Environment International (1)
Frontiers in Microbiology (2)
Fungal Biology (1)
Indoor Air (12)
International Journal of Environmental Research and Public Health (5)
International Journal of Nanomedicine (1)
Journal of Aerosol Science (8)
Journal of Applied Microbiology (1)
Journal of Environmental Management (1)

Journal of Environmental Informatics (1)
Journal of Exposure Science and Environmental Epidemiology (1)
Journal of Biogeography (1)
Journal of Housing and the Built Environment (1)
Journal of Robotics and Mechatronics (1)
Journal of Veterinary Medical Science (2)
Journal of Visualized Experiments (2)
Letters in Applied Microbiology (4)
Medical Mycology (1)
Microorganisms (1)
Molecular Ecology Resources (1)
Palynology (1)
PLoS ONE (4)
Remote Sensing (1)
Safety and Health at Work (3)
Science Bulletin (1)
Science of the Total Environment (7)
Separation Science and Technology (1)
SN Applied Sciences (1)
Others (Japanese or Korean journals) (7)

Certificates

12/2018 LPIC-2 Certified Linux Engineer, lpi.org/v/LPI810000764/yemjfpawyr
04/2018 Ministry of Economy, Trade and Industry, Japan, Applied Information Technology Engineer Examination, AP-2018-04-01996
05/2016 LPIC-1 Certified Linux Administrator, lpi.org/v/LPI810000764/lfkdfmwryt
01/2015 CITI Program, Biomedical Research Basic Course for Seoul National University K-2015-14916919, K-2017-21795562 (01/2017), K-2018-29637384 (12/18)
10/2014 Ministry of Economy, Trade and Industry, Japan, Fundamental Information Technology Engineer Examination, FE-2014-10-03296
04/2008 Ministry of Land, Infrastructure, Transport and Tourism, Japan, Permit of Boat's Operator No. 0100080008881
12/2001 State of California Department of Consumer Affair, Engineer-in-Training (EIT) certificate No. 113276