

CONTENTS

Review Articles

Nucleic acid detection and typing of *Treponema pallidum*

.....Hirofumi MIYAKE 15

Report of research

Research on Molecular Epidemiological Analysis of Microorganisms Relevant to Health Risk Management and Development of Testing Methods

.....Mami NAGASHIMA, Takushi FUJIWARA, Yukari MURATA,
Noeru HASEGAWA, Tsukasa ARIYOSHI, Satomi UEHARA,
Noriko KONISHI, Chie MONMA, Hiroyuki ASAKURA, Masaki HAYASHI,
Ryota KUMAGAI, Sachiko HARADA, Miyuki NAGANO,
Takako YAMAZAKI, Mamiyo KAWAKAMI, Fumi KASUYA,
Yu YAOITA, Kenshirou KUROKI, Arisa AMANO, Yurie KITAMURA,
Maya ISOGAI, Tomohiro KOSUGI, Emiko KAKU, Kaoru SUZUKI,
Ryou NASUHARA, Yukiko TABEL, Asamoe OGAWA, Mikoto NAKAMURA,
Chie GOTO, Konomi MURAUCHI, Minoru KOTANI, Junko HARADA,
Yuka KAWAI, Kouji KOIKE, Youko NADAOA, Kiyoko NAKAMURA,
Hiroaki KUBOTA, Megumi ANNAKA, Isao YOSHIDA, Kai KOBAYASHI,
Morika MITOBE, Rumi OKUNO, Yumi UCHITANI, Yuri TABUCHI,
Kouji MORI, Yumi TAKAHASHI, Kou MURAKAMI, Kotono WADA,
Maho KAWAMURA, Satoru AKASE, Norihisa MISEKI, Ayano NAKAZATO
Asuka ONO, Chikako ASAYAMA, Mari ARAI, Ai SUZUKI,
Wakaba OKADA, Natsumi FURUTA, Dai SAIKI, Masako MAEDA,
Hiromi OBATA, Yukari NISHINO, Miki IDA, Yoshiko SOUMURA,
Takashi CHIBA, Takayuki SHINKAI, Keiko YOKOYAMA,
Hirofumi MIYAKE, Jun SUZUKI, and Kenji SADAMASU 27

Survey of Antimicrobial Residues and Drug-Resistant Bacterium

Based on the One Health Approach Perspective

.....Maki KANDA, Kai KOBAYASHI, Yukari NISHINO, Yumi OHBA,
Takayuki NAKAJIMA, Shou KURITA, Hiroaki KUBOTA,
Tsukasa ARIYOSHI, Yukihiro KODO, Isao YOSHIDA, Megumi ANNAKA,
Morika MITOBE, Noeru HASEGAWA, Hiromi OBATA,
Kaoru HATAKEYAMA, Rie FUKUI, Megumi ICHIKAWA,
Hanako MITSUHASHI, Sumiyo KURODA, Kaeko YAMAZAKI,
Miki IDA, Makiko KOBAYASHI, Satomi UEHARA, Yumi TAKAHASHI,
Akiko TAKABAYASHI, Mutsuko ASAYAMA, Souichi YOSHIKAWA,
Hiroshi HAYASHI, Yoko MATSUSHIMA, Hiroshi KOIKE,
Momoka HAYASHI, Chieko NAGANO, Sanae TOMIZAWA,
Yumiko YAMAKI, Kyoko KAMIJO, Kazuoki YAMAMOTO,
Tomomi TAKADA, Yoshie KOKAJI, Shui WATANABE, Hiroko SHIRADO,
Yoshihiro OHSAWA, Ayane KOYAMA, Maiko NOGUCHI, Aya ONUKI,
Yuka OKA, Takako YAMAZAKI, Minako AIHARA, Kimiyo WATANABE,
Jun'ya SUZUKI, Tomoko ODA, Jun SUZUKI, Keiko YOKOYAMA
Kenji OTSUKA, Tomoko YOKOYAMA, Tetsuya SHINDO,
Jun'ichi NAKAJIMA, Teruaki KINOSHITA, Kenji SADAMASU,
Takeo SASAMOTO, and Akiko INOMATA 41

Research on the identification and analysis methods and bio-effect evaluation tests for psychoactive substances

-Toshinari SUZUKI, Miho SAKAMOTO, Yoko ICHIKAWA-KAJI,
Daisuke TERAOKA, Kazue TANAKA, Yuki SAEKI, Kiyoko KISHIMOTO,
Tomoko URADE, Machiko NAGASHIMA, Hiroko SHIODA,
Atsuko SUZUKI, Seiko SHIMIZU, Yuri MOTEGI, Misako TAKAHASHI,
Kou NAKAMURA, Itsuki SAITO, Rei NISHIYAMA, Hajime TACHIKAWA,
Nozomi UEMURA, Yuka MORIUCHI, Yuka MARUYAMA, Yuki KOSUGI,
Yoshimitsu ITO, Miki SATOH, Kyoko HATAOKA, Motoki HOJO,
Sakiko NOMURA, Yoshio NAKAGAWA, Ai MAENO, Ayaka KAWAI,
Mari NAKAMURA, Kiyomi IKUSHIMA, Yasushi ONO, Kuniaki TAYAMA,
Jin SUZUKI, Takako MORIYASU, and Akiko INOMATA 59

I Infectious Diseases and Others

< Original Articles >

Development of a Real-Time Polymerase Chain Reaction Method for Detecting Parechovirus A and Analysis of Its Detection from April 2022 to March 2024

-Sachiko HARADA, Ryota KUMAGAI, Wakaba OKADA, Yuu YAOITA,
Kumiko TAKAHASHI, Mami NAGASHIMA, and Kenji SADAMASU
..... 69

< Reports >

Utilization and Challenges of Next Generation Sequencers in Japan Association of Public Health Institutes

- Kenji SADAMASU
(Reviewed by Hiroyuki TSUKAGOSHI) 77

Comparative Studies on Methods for Extracting and Detecting Enterohemorrhagic *Escherichia coli* Verotoxin (VT) Genes from Food Samples

- Marina NAGATA, Makiko KOBAYASHI, Yoko HIGUCHI,
Keiko YAMANASHI, Akiko TAKABAYASHI, Dai SAIKI,
Keiko YOKOYAMA, Hirofumi MIYAKE,
and Kenji SADAMASU 83

Trends in public HIV testing and analysis of HIV-1 drug-resistance mutations in Tokyo from January 2019 to March 2024

- Mamiyo KAWAKAMI, Miyu KOIZUMI, Yurie KITAMURA,
Hirofumi MIYAKE, Mami NAGASHIMA, and Kenji SADAMASU
(Reviewed by Yoshihiro YASUI) 89

Detection of *Escherichia albertii* from river water in Tokyo and properties of isolated strains

- Megumi ICHIKAWA, Hiromi OBATA, Yukari NISHINO,
Rie Fukui, Hanako MITSUHASHI, Sumiyo KURODA
Kaeko YAMAZAKI, Keiko YOKOYAMA, Hirofumi MIYAKE,
and Kenji SADAMASU
(Reviewed by Yukako SHIMOJIMA) 95

Bacteriological Survey of Meat Distributed in Tokyo (April 2021–March 2023)

.....Hanako MITSUHASHI, Hiromi OBATA, Yukari NISHINO,
Rie FUKUI, Megumi ICHIKAWA, Kaeko YAMAZAKI, Sumiyo KURODA,
Keiko YOKOYAMA, Hirofumi MIYAKE,
and Kenji SADAMASU 101

Application of Real-Time PCR for the detection *Neisseria meningitidis* to gargle lavage specimens

..... Tsukasa ARIYOSHI, Yumi UCHITANI, Rumi OKUNO,
Isao YOSHIDA, Jun SUZUKI, and Kenji SADAMASU
(Reviewed by Hideyuki TAKAHASHI) 109

Study on the whole-genome analysis methods of *Mycobacterium tuberculosis*

Megumi ANNAKA, Noeru HASEGAWA, Hiroaki KUBOTA, Isao YOSHIDA,
Jun SUZUKI, and Kenji SADAMASU 115

Sewage Monitoring of SARS-CoV-2 in Tokyo (May 2023–May 2024): Semi-quantitative Monitoring Using a Fully Automated Genetic Testing Platform

.....Ryota KUMAGAI, Wakaba OKADA, Yuu YAOITA, Sachiko HARADA,
Kumiko TAKAHASHI, Akihiro TAKAHASHI, Kinji YAMADA,
Kiyoaki KITAMURA, Teru YAMAMOTO, Shinya SAITO,
Kouki MURAYAMA, Junya HASHIMOTO, Shou KAWACHI,
Mami NAGASHIMA, and Kenji SADAMASU
(Reviewed by Mitsuhiro HAMASAKI) 119

Detection of gastroenteritis viruses in Tokyo (April 2022 to March 2024)

.....Hiroyuki ASAKURA, Satoru AKASE, Shota YOKOTA, Naoya IWASAKI,
Maya ISOGAI, Yukinao HAYASHI, Akane NEGISHI, Hitoshi ITOH,
Kenshiro KUROKI, Miyu KOIZUMI, Yurie KITAMURA, Kaori KUZAWA,
Mami NAGASHIMA, and Kenji SADAMASU
(Reviewed by Akihiko HIRAI) 125

Whole-Genome Sequencing Analysis of SARS-CoV-2 in Tokyo (June 2023–May 2024)

.....Akane NEGISHI, Hitoshi ITO, Kaori KUZAWA, Wakaba OKADA,
Fumi KASUYA, Yurie KITAMURA, Yukinao HAYASHI, Sachiko HARADA,
Ryota KUMAGAI, Arisa AMANO, Kenshiro KUROKI, Shota YOKOTA,
Maya ISOGAI, Hiroyuki ASAKURA, Yuu YAOITA, Miyu KOIZUMI,
Naoya IWASAKI, Satoru AKASE, Kumiko TAKAHASHI, Hirofumi MIYAKE,
Mami NAGASHIMA, and Kenji SADAMASU 133

Study of Human Norovirus Culture Method Using Commercially Available Human iPS Cell-Derived Intestinal Epithelial Cells

.....Shota YOKOTA, Hiroyuki ASAKURA, Satoru AKASE,
Akane NEGISHI, Hitoshi ITO, Kenshiro KUROKI,
Miyu KOIZUMI, Naoya IWASAKI, Yurie KITAMURA,
Maya ISOGAI, Kaori KUZAWA, Yukinao HAYASHI,
Mami NAGASHIMA, and Kenji SADAMASU
(Reviewed by Yasuo KABURAGI) 141

Survey of Antiviral-Resistant Mutants of SARS-CoV-2 in Tokyo Using GISAID (April 2023 - March 2024)

-Miyu KOIZUMI, Mamiyo KAWAKAMI, Yurie KITAMURA,
 Hiroyuki ASAKURA, Hitoshi ITO, Akane NEGISHI, Kenshiro KUROKI,
 Shota YOKOTA, Naoya IWASAKI, Maya ISOGAI, Yukinao HAYASHI,
 Kaori KUZAWA, Sachiko HARADA, Ryota KUMAGAI, Wakaba OKADA,
 Yu YAOITA, Arisa AMANO, Kumiko TAKAHASHI, Satoru AKASE,
 Mami NAGASHIMA, and Kenji SADAMASU
 (Reviewed by Hayato EHARA) 149

Analysis of the number of HIV tests and test results at free anonymous laboratories in Tokyo (2019-2023)

-Yurie KITAMURA, Mamiyo KAWAKAMI, Miyu KOIZUMI,
 Hitoshi ITOH, Kenshiro KUROKI, Hiroyuki ASAKURA,
 Akane NEGISHI, Shota YOKOTA, Naoya IWASAKI, Yukinao HAYASHI,
 Maya ISOGAI, Kaori KUZAWA, Satoru AKASE, Mami NAGASHIMA,
 and Kenji SADAMASU
 (Reviewed by Yoshihiro YASUI) 157

Respiratory viruses detection in the Tokyo Metropolitan Government's Infectious Disease Surveillance Project (April 2023 to March 2024)

-Kaori KUZAWA, Akane NEGISHI, Hitoshi ITO, Kenshiro KUROKI,
 Yukinao HAYASHI, Satoru AKASE, Mami NAGASHIMA,
 and Kenji SADAMASU 165

Antibody Titers for SARS-CoV-2 in Tokyo (December 2019 to November 2023)

-Takushi FUJIWARA, Hiroyuki ASAKURA, Miyuki NAGANO,
 Masaki HAYASHI, Takako YAMAZAKI, Mamiyo KAWAKAMI,
 Ai SUZUKI, Akane NEGISHI, Hitoshi ITO, Kenshiro KUROKI,
 Shota YOKOTA, Miyu KOIZUMI, Yurie KITAMURA,
 Kaori KUZAWA, Maya ISOGAI, Yukinao HAYASHI,
 Michiya HASEGAWA, Sachiko HARADA, Ryota KUMAGAI,
 Fumi KASUYA, Arisa AMANO, Yuu YAOITA, Wakaba OKADA,
 Hirofumi MIYAKE, Takashi CHIBA, Jun SUZUKI, Takayuki SHINKAI,
 Shouichi TAHARA, Mami NAGASHIMA,
 and Kenji SADAMASU 169

Evaluation of the Utility of Clonality Analysis for Bovine Leukemia Virus

-Yoshihito HATCHO, Kenji SADAMASU, Mami NAGASHIMA,
 and Shinichiro KATAOKA 175

II Pharmaceutical Hygiene

< Original Articles >

Simultaneous Analytical Method of Ephedra Alkaloids in Ephedra Herb

-Yuuka MARUYAMA, Atsuko SUZUKI, Seiko SHIMIZU,
 Yuri MOTTEKI, Misako TAKAHASHI, Toshinari SUZUKI,
 and Akiko INOMATA 183

III Food Hygiene

< Original Articles >

Simultaneous Analysis of Glycyrrhizic Acid and Stevia Sweeteners in Foods Without Using Ammonia Solution	Natsumi TAKAHASHI, Etsuko ISHII, Narue SAKAMAKI, Chigusa KOBAYASHI, and Kenji OTSUKA	193
--	---	-----

< Reports >

Outbreaks of Poisoning by Chemical and Naturally Occurring Toxicants in Tokyo, 2021–2023	Kenji IIDA, Tomoya TANAKA, Kimiko KAN, Satoko OKOCHI, and Yuki SADAMASU	201
--	--	-----

Case Studies of Food Complaints in Tokyo (April 2022–March 2024)	Tomoya TANAKA, Kenji IIDA, Kimiko KAN, Satoko OKOCHI, and Yuki SADAMASU	209
--	--	-----

Survey of Sulfur Dioxide and Sulfites in Foods	Akiko YASUI, Maaya ISONO, Yukiko YAMAJIMA, Chigusa KOBAYASHI, and Kenji OTSUKA	217
--	---	-----

Investigation of analytical method for Heptyl para-hydroxybenzoate in soft drinks and beer	Rio SUZUKI, Itoko BABA, Ayako ITO, Shui WATANABE, Misato SAITO, Akiko YASUI, Toshiko SHIMOI, Rina NAKAMURA, and Kenji OTSUKA	223
--	--	-----

Example of Detection of 4-Aminocarmine Acid in Imported Marshmallows Using Cochineal Extract	Ayumu YOSHIDA, Mari MORIKAWA, Chigusa KOBAYASHI, Takahiro SASAKI, Yukiko YAMAJIMA, and Kenji OTSUKA	229
--	---	-----

Validation Study for the Simultaneous Determination of Pesticide Residues in Brown Rice Using LC-MS/MS	Yoshie KOKAJI, Kazuoki YAMAMOTO, Sanae TOMIZAWA, Takushi FUJIWARA, Kyoko KAMIJO, Yuri SAITO, Tomomi TAKADA, Yoshihiro OHSAWA, Maiko NOGUCHI, and Shoichi TAHARA	237
--	--	-----

Survey of Organochlorine Pesticide Residues in Fishery Products (April 2021–March 2023)	Yuka MORITA, Maki KOBAYASHI, Yuki OMACHI, Yuki HIRAISHI, Tomoko YOKOYAMA, and Shoichi TAHARA	247
---	--	-----

Surveillance of Organochlorine Pesticide Residues in Livestock and Fishery Products (April 2023–March 2024)	Yuki HIRAISHI, Maki KOBAYASHI, Yuki OMACHI, Yuka MORITA, and Shoichi TAHARA	253
---	--	-----

IV Environmental Hygiene

< Original Articles >

Trend in Ambient Radiation Dose Rate in Shinjuku, Tokyo, Using the 49×49 Response Matrix Method	Satoko FUJIE, Norihisa MISEKI, Teruaki KINOSHITA, and Akiko INOMATA.....	261
--	---	-----

< Reports >

Wastewater Measurements of Tokyo Metropolitan Institute of Public Health	Tokuko TSUNODA, Tomoko OKUBO, Norihisa MISEKI, Teruaki, KINOSHITA, and Akiko INOMATA.....	271
---	--	-----

Surveys on <i>Legionella</i> species in water samples from approved swimming pools and whirlpools in Tama District and Island areas, Tokyo (April 2021-March 2023)	Sae OOTANI, Chieko MUTO, Moeko UMETSU, Yasuhiro TAKAKU, Kazuyoshi TANAKA, Teruaki KINOSHITA, and Akiko INOMATA.....	279
--	---	-----

Books, Book Chapters and Journals	287
--	-----

Presentations at Conferences and Scientific Meetings	297
---	-----