



Bruker Microbiology & Infection Diagnostics

# IR Biotyper<sup>®</sup> Publications

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## General Publications

Applied Microbiology and Biotechnology, 10 July 2025

<https://doi.org/10.1007/s00253-025-13550-x>

### **Application of MALDI-TOF MS and FT-IR spectroscopy in identification and antibiotic resistance profiling of lactic acid bacteria**

Kocsis T., Gyórfy A. & Pomazi A.

Diagnostic Microbiology and Infectious Disease, 30 December 2024

<https://doi.org/10.1016/j.diagmicrobio.2024.116676>

### **The IR Biotyper as a tool for typing organisms of significance for hospital epidemiology- A subject review**

Al-Fraihat E., Barker K. R. & Tadros M.

Methods and Protocols, 11 June 2024

<https://doi.org/10.3390/mps7030048>

### **A Comprehensive Methodology for Microbial Strain Typing Using Fourier-Transform Infrared Spectroscopy**

Muchaamba F. & Stephan R.

Journal of Clinical Microbiology, 3 October 2023

<https://doi.org/10.1128/jcm.00347-23>

### **Evaluation of Fourier transform-infrared spectroscopy (FT-IR) as a control measure for nosocomial outbreak investigations**

Uribe G., Salipante S. J., Curtis L., Lieberman J. A., Kurosawa K., Cookson B. T., Hoogestraat D., Stewart M. K., Olmstead T., Bourassa L.



## Publications on *Acinetobacter* spp.

American Journal of Infection Control, 29 November 2024

<https://doi.org/10.1016/j.ajic.2024.11.019>

### **Nosocomial outbreak due to a novel Sequence Type of carbapenem-resistant *Acinetobacter seifertii***

Barth PO, Pereira DC, de Oliveira GS, Konkewicz LR, Lutz L, Matos WL, Mott MP, Constante CC, Wilhelm CM, Antochewis LC, Paiva RM, Tragnago KF, Barth AL, Martins AF.

Journal of Hospital Infection, 4 January 2024

<https://doi.org/10.1016/j.jhin.2024.01.002>

### **An outbreak with multidrug-resistant *Acinetobacter baumannii* on a burn ICU and its control with multifaceted containment measures**

Obenhuber T., Scheier T. C., Stutz T., Hug M., Fontein D., Kaiser A., Schoene S., Steiger P., Brugger S. D., Zingg W., Schreiber P. W.

Journal of Clinical Microbiology, 3 October 2023

<https://doi.org/10.1128/jcm.00347-23>

### **Evaluation of Fourier transform-infrared spectroscopy (FT-IR) as a control measure for nosocomial outbreak investigations**

Uribe G., Salipante S. J., Curtis L., Lieberman J. A., Kurosawa K., Cookson B. T., Hoogestraat D., Stewart M. K., Olmstead T., Bourassa L.

Brazi J Microbiol. 23 May 2022

<https://doi.org/10.1007/s42770-022-00774-6>

### **Fourier transform infrared spectroscopy as a new tool for surveillance in local stewardship antimicrobial program: a retrospective study in a nosocomial *Acinetobacter baumannii* outbreak**

Guerrero-Lozano I, Galán-Sánchez F, Rodríguez-Iglesias M.



Infection Control & Hospital Epidemiology, 10 May 2022

<https://doi.org/10.1017/ice.2022.109>

**Analysis of four carbapenem-resistant *Acinetobacter baumannii* outbreaks using Fourier-transform infrared spectroscopy**

H Kon, E Temkin, P Elmalih, A Keren-Paz, D Ben-David, R Najjar-Debbiny, T Gottesman and Y Carmeli

Future Microbiology, 22 October 2021

<https://doi.org/10.2217/fmb-2020-0276>

**Application of Fourier transform infrared spectroscopy for real-time typing of *Acinetobacter baumannii* outbreak in intensive care unit**

Lombardo D, Cordovana M, Deidda F, Pane M, Ambretti S.



## Publications on *Bacillus* spp.

Microorganisms, 12 January 2024

<https://doi.org/10.3390/microorganisms12010183>

### **Application of Fourier Transform Infrared Spectroscopy to Discriminate Two Closely Related Bacterial Species: *Bacillus anthracis* and *Bacillus cereus* Sensu Stricto**

Manzulli V., Cordovana M., Serrecchia L., Rondinone V., Pace L., Farina D., Cipolletta D., Caruso M., Fracalvieri R., Difato L. M., Tolve F., Vetrillo V., Galante D.

Curr Microbiol, 21 July 2020

<https://doi.org/10.1007/s00284-020-02129-6>

### **Prevalence and Characteristics of *Bacillus cereus* Group Isolated from Raw and Pasteurised Milk**

Radmehr B, Zaferanloo B, Tran T, Beale DJ, Palombo EA



## Publications on *Candidozyma (Candida) spp.*

Mycoses, 04 July 2025

<https://doi.org/10.1111/myc.70085>

### **Clade Distinction and Tracking of Clonal Spread by Fourier-Transform Infrared Spectroscopy in Multicenter *Candida (Candidozyma) auris* Outbreak**

de Melo C. C., de Oliveira H. L. N. L., Souza B. R., Moura C. V. R., Oliveira R., Bastos R. W., Kemmerich K. K., de Almeida-Junior J. N., Colombo A. L., Spruijtenburg B., Meis J. F., Le Pape P., Moonen C. G. J. & de Lima-Neto R. G.

Microorganisms, 26 October 2024

<https://doi.org/10.3390/microorganisms12112153>

### **"CLADE-FINDER": *Candida auris* Lineage Analysis Determination by Fourier Transform Infrared Spectroscopy and Artificial Neural Networks**

Magri C., De Carolis E., Ivagnes V., Di Pilato V., Spruijtenburg B., Marchese A., Meijer E. F. J., Chowdhary A. & Sanguinetti M.

Journal of Hospital Infection, 18 October 2024

<https://doi.org/10.1016/j.jhin.2024.10.003>

### **Genotyping of *Candida tropicalis* isolates uncovers nosocomial transmission of two lineages in Italian tertiary care hospital**

B. Spruijtenburg, E. De Carolis, C. Magri, J.F. Meis, M. Sanguinetti, T. de Groot & E.F.J. Meijer

Microorganisms, 27 June 2024

<https://doi.org/10.3390/microorganisms12071312>

### **Fourier Transform Infrared Spectroscopy Application for *Candida auris* Outbreak Typing in a Referral Intensive Care Unit: Phylogenetic Analysis and Clustering Cut-Off Definition**

Curtoni A., Pastrone L., Cordovana M., Bondi A., Piccinini G., Genco M., Bottino P., Polizzi C., Cavallo L., Mandras N., Corcione S., Montrucchio G., Brazzi L. & Costa C.



Antimicrobial Stewardship & Healthcare Epidemiology, 16 May 2024

<https://doi.org/10.1017/ash.2024.77>

**A cluster of *Candida parapsilosis* displaying fluconazole-trailing in a neonatal intensive care unit successfully contained by multiple infection-control interventions**

Hiroaki Baba, Hajime Kanamori, Asami Nakayama, Takami Sato, Makoto Katsumi, Takae Chida, Shinobu Ikeda, Rio Seki, Teppei Arai, Katsuhiko Kamei and Koichi Tokuda

Frontiers in Cellular and Infection Microbiology, August 2022

<https://doi.org/10.3389/fcimb.2022.887754>

**Surveillance diagnostic algorithm using real-time PCR assay and strain typing method development to assist with the control of *C. auris* amid COVID-19 pandemic**

Deisy A. Contreras and Margie A. Morgan



## **Publications on *Elizabethkingia* spp.**

European Journal of Clinical Microbiology & Infectious Diseases, 14 February 2024

<https://doi.org/10.1007/s10096-024-04764-4>

### **Characterization of an outbreak caused by *Elizabethkingia miricola* using Fourier-transform infrared (FTIR) spectroscopy**

Rodríguez-Temporal D., García-Cañada J. E., Candela A., Oteo-Iglesias J., Serrano-Lobo J., Pérez-Vázquez M., Rodríguez-Sánchez B., Cercenado E.



## Publications on *Enterobacter* spp.

Journal of Hospital Infection, 30 November 2021

<https://doi.org/10.1016/j.jhin.2021.11.017>

**Nosocomial outbreak of monoclonal VIM carbapenemase-producing *Enterobacter cloacae* complex in an intensive care unit during the COVID-19 pandemic: an integrated approach**

C. Mullié, D. Lemonnier, C.C. Adjidé, J. Maizel, G. Mismacque, A. Cappe, T. Carles, M. Pierson-Marchandise, Y. Zerbib

Front. Microbiol, 6 November 2019

<https://doi.org/10.3389/fmicb.2019.02582>

**Fourier-Transform Infrared (FTIR) Spectroscopy for Typing of Clinical *Enterobacter cloacae* Complex Isolates**

Vogt S, Löffler K, Dinkelacker AG, Bader B, Autenrieth IB, Peter S, Liese J



## Publications on *Enterococcus* spp.

Journal of Global Antimicrobial Resistance, 27 March 2024

<https://doi.org/10.1016/j.jgar.2024.03.004>

**When it rains it pours: an increased prevalence of intestinal carriage of vancomycin-resistant *Enterococcus faecium* related to higher use of oral vancomycin in a tertiary care Hungarian clinical center during the years of the COVID-19 pandemic**

Orosz L.

Microbiology Spectrum, 5 March 2024

<https://doi.org/10.1128/spectrum.04119-23>

**Comparative analysis of IR-Biotyper, MLST, cgMLST, and WGS for clustering of vancomycin-resistant *Enterococcus faecium* in a neonatal intensive care unit**

Park S., Ryoo N.

Microbiology Spectrum, 22 September 2023

<https://doi.org/10.1128/spectrum.00984-23>

**Fourier-transform infrared spectroscopy for typing of vancomycin-resistant *Enterococcus faecium*: performance analysis and outbreak investigation**

Scheier T. C., Franz J., Boumassoud M., Andreoni F., Chakrakodi B., Duvnjak B., Egli A., Zingg W., Ramette A., Wolfensberger A., Kouyos R. D., Brugger S. D.

Journal of Microbiological Methods, 8 November 2022

<https://doi.org/10.1016/j.mimet.2022.106603>

**Comparison of FT-IR with whole-genome sequencing for identification of maternal-to-neonate transmission of antibiotic-resistant bacteria**

Azrad M, Matok LA, Leshem T and Peretz A



## Publications on *Escherichia* spp.

Antimicrobial Resistance & Infection Control, 21 April 2025

<https://doi.org/10.1186/s13756-025-01546-1>

### **Use of a national repository of Fourier-transform infrared spectroscopy spectra enables fast detection of silent outbreaks and prevention of spread of new antibiotic-resistant sequence types**

Lurie-Weinberger M. N., Temkin E., Kastel O., Bechor M., Bychenko-Banyas D., Efrati-Epchtien R., Levi G. D., Rakovitsky N., Keren-Paz A., Carmeli Y. & Antimicrobial Resistance Surveillance Group

Avian Pathology, 11 April 2024

<https://doi.org/10.1080/03079457.2024.2334683>

### **Interference between *Escherichia coli* genotypes from the *E. coli* peritonitis syndrome given simultaneously to productive SPF White Leghorn hens by intratracheal inoculation**

Landman W. J. M., van Eck J. H. H. & Heuvelink A. E.

Journal of Clinical Microbiology, 3 October 2023

<https://doi.org/10.1128/jcm.00347-23>

### **Evaluation of Fourier transform-infrared spectroscopy (FT-IR) as a control measure for nosocomial outbreak investigations**

Uribe G., Salipante S. J., Curtis L., Lieberman J. A., Kurosawa K., Cookson B. T., Hoogestraat D., Stewart M. K., Olmstead T., Bourassa L.

Annals of Laboratory Medicine, March 2023

<https://doi.org/10.3343/alm.2023.43.2.174>

### **Performance Comparison Between Fourier-Transform Infrared Spectroscopy-based IR Biotyper and Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry for Strain Diversity**

Son Young Jun, Young Ah Kim, Suk-Jun Lee, Woon-Won Jung, Hyun-Sook Kim, Sung-Soo Kim, Hyunsoo Kim, Dongeun Yong, Kyungwon Lee



## Publications on *Klebsiella* spp.

Journal of Antimicrobial Chemotherapy, 31 May 2025

<https://doi.org/10.1093/jac/dkaf170>

### **Real-time FT-IR typing of *Klebsiella pneumoniae*: a flexible and rapid approach for outbreak detection and infection control**

Goncalves A. B., Alves V., Neves I., Read A., Pinheiro N., Henius A. E., Hasman H., Peixe L. & Novais A.

Journal of Hospital Infection, 19 May 2025

<https://doi.org/10.1016/j.jhin.2025.05.003>

### **Characterization of a nosocomial outbreak caused by VIM-1 *Klebsiella michiganensis* using Fourier-Transform Infrared (FT-IR) Spectroscopy**

Rodriguez-Temporal D., Sánchez-Cueto M., Buenestado-Serrano S., Blázquez-Sánchez M., Cercenado E., Gutiérrez-Pareja M., Molero-Salinas A., López-Camacho E., Muñoz P., García de Viedma D., Pérez-Lago L. & Rodríguez-Sánchez B.

Antimicrobial Resistance & Infection Control, 21 April 2025

<https://doi.org/10.1186/s13756-025-01546-1>

### **Use of a national repository of Fourier-transform infrared spectroscopy spectra enables fast detection of silent outbreaks and prevention of spread of new antibiotic-resistant sequence types**

Lurie-Weinberger M. N., Temkin E., Kastel O., Bechor M., Bychenko-Banyas D., Efrati-Epchtien R., Levi G. D., Rakovitsky N., Keren-Paz A., Carmeli Y. & Antimicrobial Resistance Surveillance Group

Journal of Clinical Microbiology, 27 November 2024

<https://doi.org/10.1128/jcm.01122-24>

### **Multicenter evaluation of Fourier transform infrared (FTIR) spectroscopy as a first-line typing tool for carbapenemase-producing *Klebsiella pneumoniae* in clinical settings**

Candela A, Rodríguez-Temporal D, Lumbreras P, Guijarro-Sánchez P, Arroyo MJ, Vázquez F, Beceiro A, Bou G, Muñoz P, Oviaño M, Fernández J, Rodríguez-Sánchez B.



Frontiers in Microbiology, 20 March 2024

<https://doi.org/10.3389/fmicb.2024.1396367>

**Corrigendum: Rapid typing of *Klebsiella pneumoniae* and *Pseudomonas aeruginosa* by Fourier-transform Infrared spectroscopy informs infection control in veterinary settings**

Zendri F., Schmidt V., Mauder N., Loeffler A., Jepson R. E., Isgren C., Pinchbeck G., Haldenby S. & Timofte D.

Journal of Microbiological Methods, 8 November 2022

<https://doi.org/10.1016/j.mimet.2022.106603>

**Comparison of FT-IR with whole-genome sequencing for identification of maternal-to-neonate transmission of antibiotic-resistant bacteria**

Azrad M, Matok LA, Leshem T and Peretz A

Microb. Biotechnol, 18 November 2020

<https://doi.org/10.1111/1751-7915.13709>

**Evaluation of the IR Biotyper for *Klebsiella pneumoniae* typing and its potentials in hospital hygiene management**

Hu Y, Zhou H, Lu J, Sun Q, Liu C, Zeng Y, Zhang R

J Clin Microbiol, 23 April 2020

<https://doi.org/10.1128/JCM.00098-20>

**Fourier Transform Infrared Spectroscopy Is a New Option for Outbreak Investigation: a Retrospective Analysis of an Extended-Spectrum-Beta-Lactamase-Producing *Klebsiella pneumoniae* Outbreak in a Neonatal Intensive Care Unit**

Rakovitsky N, Frenk S, Kon H, Schwartz D, Temkin E, Solter E, Paikin S, Cohen R, Schwaber MJ, Carmeli Y, Lellouche J



J Clin Microbiol, 25 Oct 2018

<https://doi.org/10.1128/JCM.00843-18>

**Typing and species identification of clinical *Klebsiella* isolates by Fourier- transform infrared (FTIR) spectroscopy and matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectrometry.**

Dinkelacker AG, Vogt S, Oberhettinger P, Mauder N, Rau J, Kostrzewa M, Rossen JWA, Autenrieth IB, Peter S, Liese J



## **Publications on *Lactiplantibacillus* spp.**

Applied Microbiology and Biotechnology, 10 July 2025

<https://doi.org/10.1007/s00253-025-13550-x>

### **Application of MALDI-TOF MS and FT-IR spectroscopy in identification and antibiotic resistance profiling of lactic acid bacteria**

Kocsis T., Gyórfy A. & Pomazi A.

Frontiers in Microbiology, 8 December 2022

<https://doi.org/10.3389/fmicb.2022.1052420>

### **In-process real-time probiotic phenotypic strain identity tracking: The use of Fourier transform infrared spectroscopy**

Francesca Deidda, Miriam Cordovana, Nicole Bozzi Cionci, Teresa Graziano, Diana Di Gioia and Marco Pane

Frontiers in Microbiology, 24 March 2022

<https://doi.org/10.3389/fmicb.2022.823120>

### **Evaluation of IR Biotyper for *Lactiplantibacillus plantarum* Typing and Its Application Potential in Probiotic Preliminary Screening**

Li X, Zhu L, Wang X, Li J, Tang B.



## Publications on *Legionella* spp.

European Journal of Clinical Microbiology & Infectious Diseases, 20 February 2024

<https://doi.org/10.1007/s10096-024-04781-3>

**Evaluating Fourier-transform infrared spectroscopy with IR Biotyper as a faster and simpler method for investigating the sources of an outbreak of legionellosis**

Naoki Nakajima, Michio Jinnai, Shinji Izumiyama & Toshiro Kuroki

Frontiers in Microbiology, 13 April 2023

<https://doi.org/10.3389/fmicb.2023.1150942>

**A multi-center validation study on the discrimination of *Legionella pneumophila* sg.1, *Legionella pneumophila* sg. 2-15 and *Legionella* non-pneumophila isolates from water by FT-IR spectroscopy**

Tata A., Marzoli F., Cordovana M., Tiengo A., Zacometti C., Massaro A., Barco L., Belluco S., Piro R.

Frontiers in Microbiology, 26 April 2022

<https://doi.org/10.3389/fmicb.2022.866426>

**Use of Fourier-Transform Infrared Spectroscopy with IR Biotyper® System for *Legionella pneumophila* Serogroups Identification**

Pascale MR, Bisognin F, Mazzotta M, Girolamini L, Marino F, Dal Monte P, Cordovana M, Scaturro M, Ricci ML, Cristino S.



## Publications on *Listeria* spp.

International Journal of Food Microbiology, 29 October 2024

<https://doi.org/10.1016/j.ijfoodmicro.2024.110954>

**Nisin resistance is increased through GtcA mutation-induced loss of cell wall teichoic acid *Nacetylglucosamine* modifications in *Listeria monocytogenes***

Toruvandepi Mandinyenya, Joseph Wambui, Francis Muchaamba, Marc J.A. Stevens, Taurai Tasara

Methods and Protocols, 11 June 2024

<https://doi.org/10.3390/mps7030048>

**A Comprehensive Methodology for Microbial Strain Typing Using Fourier-Transform Infrared Spectroscopy**

Muchaamba F. & Stephan R.

Clinical Spectroscopy, 27 October 2023

<https://doi.org/10.1016/j.clispe.2023.100030>

**Validated differentiation of *Listeria monocytogenes* serogroups by FTIR spectroscopy using an Artificial Neural Network based classifier in an accredited official food control laboratory**

Oberreuter H., Dyk M., Rau J.



## Publications on *Mycobacterium* spp.

Journal of Microbiological Methods, 28 July 2023

<https://doi.org/10.1016/j.mimet.2023.106792>

### **Application of FT-IR Spectroscopy for *Mycobacterium abscessus* complex subspecies differentiation**

Curtoni A., Cordovana M., Bondi A., Scaiola F., Criscione G., Ghibaud D., Pastrone L., Zanotto E., Camaggi A., Caroppo M. S., Kostrzewa M., Cavallo R., Costa C.

Microbiology Spectrum, October 2022

<https://doi.org/10.1128/spectrum.02893-22>

### **Investigating the Origin of *Mycobacterium chimaera* Contamination in Heater-Cooler Units: Integrated Analysis with Fourier Transform Infrared Spectroscopy and Whole-Genome Sequencing**

F. Bisognin, F. Messina, O. Butera, C. Nisii, A. Mazzarelli, S. Cristino, M. R. Pascale, G. Lombardi, A. Cannas, P. Dal Monte



## Publications on *Pseudomonas* spp.

Frontiers in Microbiology, 20 March 2024

<https://doi.org/10.3389/fmicb.2024.1396367>

**Corrigendum: Rapid typing of *Klebsiella pneumoniae* and *Pseudomonas aeruginosa* by Fourier-transform Infrared spectroscopy informs infection control in veterinary settings**

Zendri F., Schmidt V., Mauder N., Loeffler A., Jepson R. E., Isgren C., Pinchbeck G., Haldenby S. & Timofte D.

Transboundary and Emerging Diseases, 7 September 2023

<https://doi.org/10.1155/2023/8649429>

**Rapid Discrimination of *Pseudomonas aeruginosa* ST175 Isolates Involved in a Nosocomial Outbreak Using MALDI-TOF Mass Spectrometry and FTIR Spectroscopy Coupled with Machine Learning**

Candela A., Arroyo M.J., Sánchez-Cueto M., Marín M., Cercenado E., Méndez G., Muñoz P., Mancera L., Rodríguez-Temporal D. and Rodríguez-Sánchez B.



## Publications on *Salmonella* spp.

Microbiology Spectrum, 27 May 2025

<https://doi.org/10.1128/spectrum.00159-25>

**Development of a robust FT-IR typing system for *Salmonella enterica*, enhancing performance through hierarchical classification**

Fredes-García D., Jiménez-Rodríguez J., Piña-Iturbe A., Caballero-Díaz P., González-Villarreal T., Dueñas F., Wozniak A., Adell A. D., Moreno-Switt A. I. & García P.

bioRxiv, 18 March 2025

<https://doi.org/10.1101/2025.03.18.643663>

**Establishment and Thorough External Validation of a FTIR Spectroscopy Classifier for *Salmonella* Serogroup Differentiation**

Helene Oberreuter, Miriam Cordovana, Martin Dyk & Jörg Rau

One Health, 6 March 2025

<https://doi.org/10.1016/j.onehlt.2025.101004>

**Rapid serotype-independent differential detection of biofilm-positive and biofilm-negative *Salmonella* using Fourier transform infrared biotyping**

Asmita Shrestha, Smriti Shringi & Devendra H. Shah

Heliyon, 6 March 2024

<https://doi.org/10.1016/j.heliyon.2024.e27402>

**Strain typing and antimicrobial susceptibility of *Salmonella enterica* Albany isolates from duck farms in South Korea**

Han M., Chae M., Lee S., No K. & Han S.



Transfusion, 7 March 2023

<https://doi.org/10.1111/trf.17306>

**Successful autologous hematopoietic stem cell transplants using *Salmonella* positive products collected from asymptomatic donors**

Phou S., Perez-Alvarez I., Morgan M., Contreras D. A., Ben-Aderet M., Gaddam E., Paquette R., Vescio R., Pepkowitz S. H., Gibb D. R., Zabner R., Klapper E. B.

Journal of Microbiological Methods, October 2022

<https://doi.org/10.1007/s42770-022-00774-6>

**Machine learning-based typing of *Salmonella enterica* O-serogroups by the Fourier-Transform Infrared (FTIR) Spectroscopy-based IR Biotyper system**

Cordovana M, Mauder N, Join-Lambert O, Gravey F, LeHello S, Auzou M, Pitti M, Zoppi S, Buhl M, Steinmann J, Frickmann H, Dekker D, Funashima Y, Nagasawa Z, Soki J, Orosz L, Veloo AC, Justesen US, Holt HM, Liberatore A, Ambretti S, Pongolini S, Soliani L, Wille A, Rojak S, Hagen RM, May J, Pranada AB, Kostrzewa M

Microorganisms, 15 April 2021

<https://doi.org/10.3390/microorganisms9040853>

**Classification of *Salmonella enterica* of the (Para-)Typhoid Fever Group by Fourier-Transform Infrared (FTIR) Spectroscopy**

Cordovana M, Mauder N, Kostrzewa M, Wille A, Rojak S, Hagen R.M, Ambretti S, Pongolini S, Soliani L, Justesen U.S, Holt H.M, Join-Lambert O, Hello S.L, Auzou M, Veloo A.C, May J, Frickmann H, Dekker D



## Publications on *Staphylococcus* spp.

Frontiers in Microbiology, 11 September 2024

<https://doi.org/10.3389/fmicb.2024.1455945>

**Investigation of a linezolid-resistant *Staphylococcus epidermidis* outbreak in a French hospital: phenotypic, genotypic, and clinical characterization**

Lépine N., Bras-Cachinho J., Couratin E., Lemaire C., Chaufour L., Junchat A. & Lartigue MF.

Journal of Clinical Microbiology, 3 October 2023

<https://doi.org/10.1128/jcm.00347-23>

**Evaluation of Fourier transform-infrared spectroscopy (FT-IR) as a control measure for nosocomial outbreak investigations**

Uribe G., Salipante S. J., Curtis L., Lieberman J. A., Kurosawa K., Cookson B. T., Hoogestraat D., Stewart M. K., Olmstead T., Bourassa L.

Zoonoses and Public Health, 10 May 2023

<https://doi.org/10.1111/zph.13046>

**Investigation of a *Staphylococcus aureus* sequence type 72 food poisoning outbreak associated with food-handler contamination in Italy**

F. Savini, A. Romano, F. Giacometti, V. Indio, M. Pitti, L. Decastelli, P. L. Devalle, I. Silvia R. Gorrasi, S. Miaglia, A. Serraino

Pathogens 2023, 18 March 2023

<https://doi.org/10.3390/pathogens12030481>

**Prescription of Rifampicin for *Staphylococcus aureus* Infections Increased the Incidence of *Corynebacterium striatum* with Decreased Susceptibility to Rifampicin in a Hungarian Clinical Center**

Orosz L., Lengyel G., Makai K., Burián K.



Journal of Microbiological Methods, 8 November 2022

<https://doi.org/10.1016/j.mimet.2022.106603>

**Comparison of FT-IR with whole-genome sequencing for identification of maternal-to-neonate transmission of antibiotic-resistant bacteria**

Azrad M, Matok LA, Leshem T and Peretz A

Antibiotics, 7 July 2022

<https://doi.org/10.3390/antibiotics11070909>

**Performance Evaluation of the IR Biotyper® System for Clinical Microbiology: Application for Detection of *Staphylococcus aureus* Sequence Type 8 Strains**

Jun Sung Hong, Dokyun Kim and Seok Hoon Jeong



## Publications on *Streptococcus* spp.

European Journal of Clinical Microbiology & Infectious Diseases, 21 May 2025

<https://doi.org/10.1007/s10096-025-05162-0>

### **Evaluation of Fourier-Transform Infrared Spectroscopy with IR Biotyper® system for *Streptococcus pneumoniae* serotyping**

Tondolo Romero C., Kehl Moreira N., Rosa da Cunha G., Mariana Preussler Mott M. P., Cícero Dias C., Barth A. L. & Caierão J.

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### **Fourier transform infrared spectroscopy for *Streptococcus pneumoniae* capsular serotype classification in pediatric patients with invasive infections**

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### **Validation of Fourier Transform Infrared Spectroscopy for Serotyping of *Streptococcus pneumoniae***

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### **Analysis of *Streptococcus pneumoniae* using Fourier-transformed infrared spectroscopy allows prediction of capsular serotype**

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