



Bruker Microbiology & Infection Diagnostics

## Posters @ ESCMID Global 2026

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### IR Biotyper®

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#### P2532

##### **Automated discrimination of *Salmonella* Typhi by Fourier-Transform Infrared (FTIR) spectroscopy and machine learning**

M. Cordovana, S. Zimmermann, T. Gaube, S. Ambretti, S. Pongolini, L. Soliani, J. Jimenez-Rodriguez, P. Garcia, P. Morales, M. Soleiman, A. Perez-Lopez, O. Join-Lambert, S. Le Hello, M. Auzou, D. Dekker, A.B. Pranada, H. Oberreuter, J. Rau, H. Frickmann, M. Kostrzewa

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#### P2535

##### **Evaluation of a novel kNN-based approach for automated strain typing by Fourier-transform infrared spectroscopy**

M. Cordovana, N. Mauder, P.G. Higgings, O. Join-Lambert, S. Ambretti, D. Lombardo, D. Dekker, E.A. Zautner, A.C.M. Veloo, E.A. Idelevich, R. Migliavacca, K. Becker, M. Kostrzewa

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#### P3686

##### **Evaluation of Fourier-transform infrared spectroscopy, developed for typing of *Klebsiella pneumoniae* complex isolates involved in hospital outbreaks, with clinical and environmental isolates from Tanzania**

M. Cordovana, T. Thie, J. Mbwana, J. Lusingu, H. Frickmann, D. Dekker

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#### P3723

##### **Evaluation of WGS and FTIR spectroscopy for *Candida auris* clinical isolates typing**

N. Mauder, M. Cordovana, G. Shi, W. Memon, S. Murphy, S.X. Zhang

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#### P4393

##### **Typing of *Riemerella anatipestifer* by Fourier-transform infrared spectroscopy**

I. Drigo, M. Cordovana, A. Guolo, L. Zandonà, L. Bano

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#### **E0821 – (flash talk, 20/04/2026, 17:30, Arena 1)**

##### **Automated discrimination of *E. coli* from *Shigella* spp. using FTIR spectroscopy and machine learning**

M. Cordovana, N. Mauder, A.B. Pranada, C. Hess, W. Geissdorfer, F. Pankok, U. Loderstaedt, S. Scheithauer, D. Dekker, E. A. Zautner, J. Overhoff, M. Werner, A. Wille, P. Warnke, T. Koeller, P. Morales, M. Soleiman, A. Perez-Lopez, J. Jimenez-Rodriguez, P. Garcia, G. Da Silva Collar, N. Kehl Moreira, A.L. Barth, J. Caierao, O. Join-Lambert, A.A. Muntean, C. Ghitulescu, C. Daniela, M.I. Popa, R.M. Hagen, U. Schotte, H. Frickmann

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## MALDI Biotyper®

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**P2188**

### **Novel machine learning pipeline for MALDI-TOF mass spectra-based bacteria differentiation**

F. Joppe, G. Brünjes, M. Kostrzewa, J. Verspohl, A. Krumbholz, J. Backhaus, A. Zautner

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**P1755**

### **Performance evaluation of MALDI-TOF based AI prototype tool in guiding empiric antibiotic therapy: insights from a multi-hospital cohort in South Seattle, USA**

S.K. Chow, H.Y. Wang, M. Spueler, G. Shi, S. Brand, M. Kostrzewa

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## MALDI Biotyper® & NGS

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**P2392**

### **Genomic identification can complement unresolved MALDI-TOF-MS speciations**

M. Klimovich, D. Aberle, V. Allerheiligen, D. Harmsen, T. Maier, S. Richter, J. Rothgänger, O. Voolstra, B. Oberheitmann

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## Molecular Diagnostics

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**P2235**

### **Transition from IVDD to IVDR: clinical validation of a large panel of PCR assays targeting infections in immunocompromised patients**

E. Gallo, S. Margio, M. Chiaverini Viola, L. Liofante, S. Rapelli, C. Veglia, A. Curatolo, A. Nigam, F. Gorreta

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**P2352**

### **Fully automated PCR detection of human adenoviruses combined with a PCR-based targeted sequencing solution for rapid genotyping**

V. Falvo, W. Carbone, F. Gorreta

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