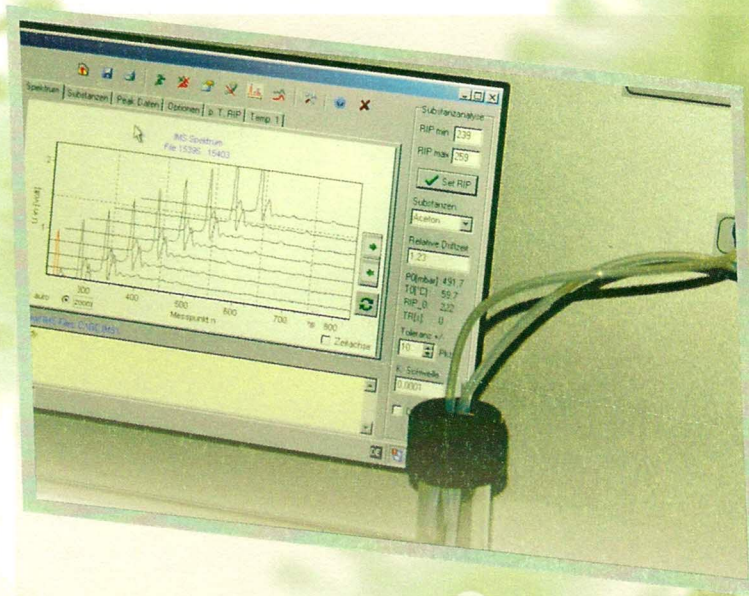# Future of Infection Detection

MULTIMARKER-MONITOR

Gas-Chromatogaphy-Ion-Mobility-Spectrometry

Consists of:

- Spectrometer

- Evaluation Software

- User interface for external PC or network
- Database
- Connection to spirometer

- Adapted Accessories

Fast and reliable detection of bacterial growth or bacterial infections, including tuberculosis or hospital germs

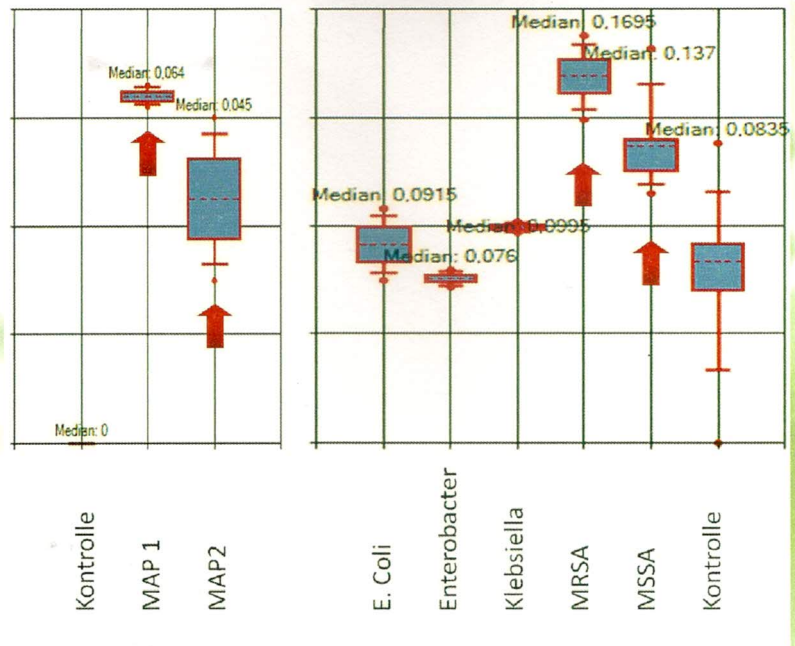Already validated for:

Detection of:

Mycobacterium avium para-tuberculosis (MAP)

and

MRSA versus MSSA

in comparison to ubiquitous occurring germs

E.Coli
Enterobacter
Klebsiella

Chart labels (left plot): Median 0.064, Median 0.045, Median: 0
X-axis: Kontrolle, MAP 1, MAP2

Chart labels (right plot): Median 0.1695, Median 0.137, Median 0.0835, Median 0.0915, Median 0.0995, Median: 0.076
X-axis: E. Coli, Enterobacter, Klebsiella, MRSA, MSSA, Kontrolle

Functional Principles

Detection of specific clusters of volatile organic compounds (VOC) in the Headspace of bacterial cultures or even in exhaled breath or Headspace of biological samples, such as nasal lavage, Sputum etc.
(always in current comparison with well-known groups with the desired characteristics).
Detection of unusual substances in the enviroment when compared with existing control measurements (air traffic control).
The self-learning software allows the continuous expansion of the issues and the field of application.

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