MSforID Search Algorithm and Fully Documented SDK

Herbert Oberacher

Platform-Independent Search Algorithm for Mass Spectrometry

Reliable LC-MS/MS libraries and search algorithms had been considered impossible until Wiley, working with the Oberacher Group, created MSforID; a complete search and library building SDK for LC-MS/MS. MSforID has been proven accurate in clinical settings:

- >95% Specificity
- <0.7% False negative
- 97.5% True positive

Spotlight

Lightweight & Reproducible

- Inter-lab/instrument reproducible
- No maintenance

Completely Documented Secure SDK

- Two files - BIN & DLL
- Encrypted on disk

Multiple Search Modes

- High Accuracy
- Composite
- Batch

High Performance

- Multithreaded In-memory

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📖 Research Articles

Testing an alternative search algorithm for compound identification with the 'Wiley Registry of Tandem Mass Spectral Data, MSforID'

Herbert Oberacher, Graeme Whitley, Bernd Berger and Wolfgang Weinmann

On the inter-instrument and inter-laboratory transferability of a tandem mass spectral reference library: 1. Results of an Austrian multicenter study

Herbert Oberacher, Marion Pavlic, Kathrin Libiseller, Birthe Schubert, Michael Sulyok, Rainer Schuhmacher, Edina Csaszar and Harald C. Köfeler

On the inter-instrument and inter-laboratory transferability of a tandem mass spectral reference library: 2. Optimization and characterization of the search algorithm

Herbert Oberacher, Marion Pavlic, Kathrin Libiseller, Birthe Schubert, Michael Sulyok, Rainer Schuhmacher, Edina Csaszar and Harald C. Köfeler

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