

# Utilities for Mass Spectrometry Analysis of Proteins

## User's Manual

**Version 2.2.0**

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To download Utilities for Mass Spectrometry Analysis of Proteins visit:

[www.umsap.nl](http://www.umsap.nl)

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## Introduction

Utilities for Mass Spectrometry Analysis of Proteins (UMSAP) is a graphical user interface (GUI) designed to speed up the post-processing of data obtained during mass spectrometry studies involving proteins. The program is not intended to analyze a mass spectrum or a mass chromatogram, neither to identify the peaks in a mass spectrum. The main objective is the fast post-processing of the vast amount of data generated in mass spectrometry experiments involving proteins after peak identification have been performed.

The program is organized in modules with each module performing a single type of data post-processing. The reason for this clear separation is the high dependency between the type of mass spectrometry experiment performed and the way in which the resulting data must be post-processed. The modules are designed in such a way that the required user input is minimized but still users can control every aspect of the analysis. Currently, the software contains three modules, but several others are already planned.

### 1.1 Citing Utilities for Mass Spectrometry Analysis of Proteins

If results obtained with UMSAP are published in any way, please acknowledge the use of UMSAP by including the following sentence:

”Utilities for Mass Spectrometry Analysis of Proteins was created by Kenny Bravo Rodriguez at the University of Duisburg-Essen and is currently developed at the Max Planck Institute of Molecular Physiology.”

Any published work, which uses UMSAP, should include the following reference:

Kenny Bravo-Rodriguez, Birte Hagemeyer, Lea Drescher, Marian Lorenz, Michael Meltzer, Farnusch Kaschani, Markus Kaiser and Michael Ehrmann. (2018). Utilities for Mass Spectrometry Analysis of Proteins (UMSAP): Fast post-processing of mass spectrometry data. [Rapid Communications in Mass Spectrometry](#), 32(19), 1659–1667.

Electronic documents should include a direct link to the official web page of UMSAP at: [www.umsap.nl](http://www.umsap.nl)

## 1.2 Acknowledgments

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