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Arrey 1, Maria C. Prieto Conaway2, Huy Bui2, Thomas Moehring 1, Kerstin Strupat1 Thermo Fisher Scientific, 1Bremen, Germany, and 2San Jose, CA, USA Overview Workflow MALDI MS Imaging is applied to common cereals, such as oat, barley, rye or wheat flakes. These (phospho)lipid and carbohydrate-containing samples are used to

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MALDI mass spectrometry imaging was performed to localize metabolites during the first seven days of the barley germination. Up to 100 mass signals were detected of which 85 signals were identified as 48 different metabolites with highly tissue-specific

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localizations. Oligosaccharides were observed in the endosperm and in parts of the developed embryo. Lipids in the endosperm co-localized in ...

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The LTQ-Orbitrap with a MALDI ion source
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was adopted to achieve MS imaging in high mass resolution. Specifically, isobaric silver ion adducts of C29 alkane (m/z 515.3741) and C28 aldehyde (m/z 515 ...

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MALDI mass spectrometry imaging was
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performed to localize metabolites during the first seven days of the barley germination. Up to 100 mass signals were detected of which 85 signals were identified as 48 different metabolites with highly tissue-specific localizations. Oligosaccharides were observed in the endosperm and in parts of the developed embryo.

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MALDI MS technology is particularly useful in the imaging of pituitary tissue as the

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molecules of interest are often hormone peptides, which have significantly higher molecular weights than the lipids and thus are poor targets for ambient ionization techniques. These have paved the way for use of the technology in actual clinical use, and key studies involving MALDI MS in pituitary imaging are ...

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This is the first study that presents metabolite profiling of a cereals' germination process over time by MALDI MSI with the identification of a large number of peaks of agronomically and industrially important compounds such as oligosaccharides, lipids

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and antifungal agents. Their detailed localization as well as the MS cluster analyses for on-tissue metabolite profile mapping revealed ...

[*Mass Spectrometric Imaging of Wheat \(Triticum spp.\) and ...*](#)

The detection of an overall resistance in wheat

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(cereals) could effectively help to control different Fusarium diseases. Moreover, the usability of AP-SMALDI-MS imaging for molecular histology was demonstrated. Mycotoxin classes that were hitherto unknown for F. graminearum were detected, demonstrating patterns of pathogenesis that were consistent with histological features observed by optical ...

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Imaging MS (IMS) using matrix-assisted laser desorption ionization (MALDI) is a specialized and powerful tool to understand the spectrum of many compounds expressed in intact tissue sections, such as lipids, proteins/peptides, and metabolites. MALDI-

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IMS has several advantages over traditional techniques, such as classical histology, autoradiographic methods, or tissue homogenates analysis ...

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The MALDI-MS images recorded from the so
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produced intact tissues sections revealed that ergometrine exhibited a relatively homogeneous distribution throughout the ergot body, whereas ergocristine was found to be enriched in the proximal region. This finding can be correlated to the morphological development of sclerotia as ergot alkaloids are only produced in the sphacelial stage. The ability ...

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*Sample preparation for MALDI-MS imaging.
The tissues were prepared according to
Philippe et al. (2006b), with slight
modifications. In the mature stage of wheat
development, the embryo was excised and the
grain was water-soaked between filter paper
moistened with distilled water (16h at 4 °C).*

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Because the young wheat grains were naturally hydrated, these samples did not require soaking ...

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Further, as the method does not destroy the sample, it is fully compatible with subsequent and complementary analyses like fluorescence

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microscopy, histochemical staining, or even MALDI?MS imaging. Although the instruments and the technology are well optimized and robust, the application of the method to animal or human tissue imaging is currently at a very early stage and only examples from ...

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For MS imaging of low molecular weight compounds in positive ion mode, a solution of 100 μ l 2,5-dihydroxybenzoic acid (30 mg/ml in acetone: water (50:50, v/v), 0.1% trifluoroacetic acid) was selected as a MALDI matrix and was sprayed onto the sections for coating using a pneumatic sprayer (SMALDIPrep, TransMIT GmbH).

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[Matrix-Assisted Laser Desorption/Ionization-
Mass ...](#)

Mass spectrometry imaging (MSI) is capable of providing information on the chemical composition and spatial distribution of complex molecules. MSI is a biological powerful label-free tool for lipid analysis across biological materials. Both matrix-

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*assisted laser desorption/ionization (MALDI)
and secondary ion mass spectrometry (SIMS),
the two*

[*Detection and localization of novel hordatine-
like ...*](#)

*The detection of an overall resistance in wheat
(cereals) could effectively help to control*

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different Fusarium diseases. Moreover, the usability of AP-SMALDI-MS imaging for molecular histology was demonstrated. Mycotoxin classes that were hitherto unknown for F. graminearum were detected, demonstrating patterns of pathogenesis that were consistent with histological features observed by optical ...

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le dictionnaire de ma vie eric dupond moretti,*

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*These mea- MALDI-MS imaging experiments
were performed with surements
unambiguously proved that ergot alkaloids
were step sizes of the XY sample stage (pixel-
to-pixel distance) of not extracted from the*

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*tissue during the chloroform washing 35
?m×35 ?m. Two hundred fifty and 30 laser
pulses were step (data not shown). applied per
pixel for the Nd:YAG and N lasers,
respectively, to accumulate ...*

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Identification of microorganisms by intact cell

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*matrix-assisted laser desorption
ionization–time-of-flight mass spectrometry
(MALDI-TOF MS) is an emerging technology.
In this work, intact MALDI-TOF MS was
applied for rapid identification of plant
pathogenic Alternaria species based on
analysis of protein markers. An analysis of 60
isolates belonging to 12 Alternaria spp.
showed ...*

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and ...](#)

The aim of this study was to compare the performance of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry (MALDI-TOF MS), phenotypic and molecular methods for the identification of Fusarium species complexes isolated from

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*clinical cases in the State of Sao Paulo
(Brazil) between the years 2001 and 2017.
Sequencing of ITS region of ribosomal DNA
and elongation factor ...*

[Technologies In Detection Of Mycotoxins |
Encyclopedia](#)

revealed through MALDI mass spectrometry
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imaging ... benefits of these cereals as dietary fibres (Lazaridou and Biliaderis, 2007).

Subtle, albeit significant, differences in AX and BG structures are expressed during the development of wheat grain endosperm and among different tissues within a given wheat grain (Philippe et al., 2006a–c; Saulnier et al., 2009; Toole et al., 2010; Robert et al ...

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[endo-1-4-beta-Xylanase M1 Trichoderma
viride Enzyme | Megazyme](#)

*The first studies using MALDI imaging on plants analyzed the distribution of agrochemical compounds in soya bean (*Glycine max*) 12 and carbohydrates in wheat (*Triticum aestivum*) stem. 13 Subsequent studies included applications on rice (*Oryza**

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sativa) seeds, 14,15 flowers and roots of the model plant *Arabidopsis thaliana* 16–19 and barley (*Hordeum vulgare*) seeds. 20 However, most MS imaging ...

[Frontiers | Spatio-Temporal Metabolite and Elemental ...](#)

Some of the applications available at the unit
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includes MALDI Biotyping (identification of microorganisms), MALDI Imaging (label-free measurements of lipids, metabolites and proteins from tissue), Peptide mass fingerprinting (PMF), nano-LC MS, 1D SDS-PAGE and 2D SDS PAGE analysis.

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Gemperline E, Jayaraman D, Maeda J, Ané JM, Li L. Multifaceted Investigation of Metabolites During Nitrogen Fixation in Medicago via High Resolution MALDI-MS Imaging and ESI-MS. Journal of The American Society for Mass Spectrometry. 26(1):149-58, 2015. DOI: 10.1007/s13361-014-1010-0

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Point-and-shoot: rapid quantitative detection methods for ...

grain using mass spectrometry imaging (MSI). This technique enables determination of the in situ localization of metabolites based on their molecular masses. A number of different methods are available, but the most popular is matrix assisted laser desorption ionization

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*(MALDI)-MSI (Bjarnholt et al., 2014;
Boughton et al., 2016). This method ...*

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