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Molecular Level Insights on the Composition and Origin of Soil Organic Matter

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The 3rd Turkish Humic Substances Congress
03-05 November 2016, Konya, Turkey

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Contents

- Introduction
 - ▣ (SOM origin, composition and processes)
- The MHA and Physically separated SOM fractions (The LF, The POM)
- Characterization – insights on the composition & origin
 - ▣ Total C, Carbohydrates
 - ▣ NMR
 - ▣ Molecular level characterization (FTICRMS)
 - van Krevelen diagram
 - m/z – DBE
 - H/C–DBE

Focus

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- The Light Fraction (LF)
- The Particulate organic matter (POM)
- The Mobile Humic Acid (MHA)

- The Molecular insights on the composition/origin of the MHA into relation to the LF and POM