

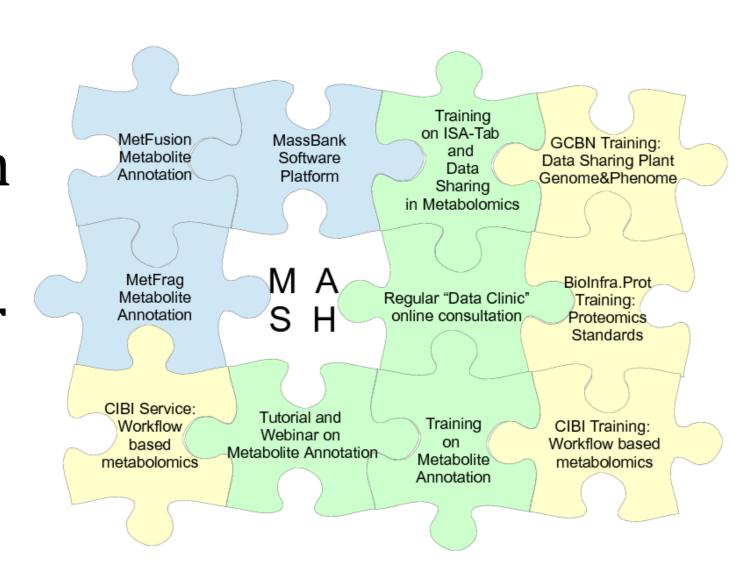
# Center for Integrative Bioinformatics (CIBI Halle) MASH: Metabolite Annotation and Sharing - Halle

FKZ 031L0107

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## MASH provides ...

... training, maintenance and workflow integration of metabolite annotation software, and support for standards-compliant metabolomics and data sharing.



Met Frag

## MetFrag software maintenance & integration

#### de.NBI service: Metabolite annotation tools

- running MetFrag infrastructure on local site and on the de.NBI cloud
- deployment on de.NBI K8S cloud
- online and offline trainig materials
- infrastructure deployments for workshops

#### MassBank software maintenance

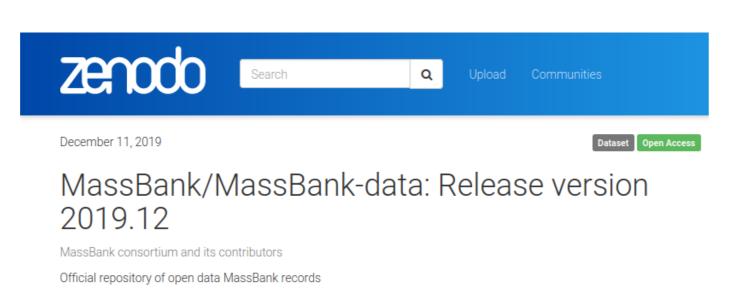
# de.NBI service: MassBank



- continous support for user and maintainance of data repository
- continous development of documentation for developer and contributors of MassBank
- support for 11 new contributors

#### FAIR MassBank

- automatic generation of sitemap on MassBank servers to increase findability of data
- Semantic annotation with schema.org and Bioschemas in the web application
- regular releases for web service and data repository with stable identifier *DOI*



Implemented advanced search capabilities for via spectral identifier SPLASH and compound identifier *InChi-Key* 

# Data Clinic to support data sharing

#### de.NBI service:

#### Regular videoconferences with online support

- User support to create and deposit studies following FAIR principles
- Data standards for metabolomics (e.g. mzTab-M)
- Coordination of software support to increase standards adoption (active in PSI-MS)



#### de.NBI cloud Activities

- Adaptation of software towards cloud-native architecture
- Deployment of software to de.NBI cloud
- Supporting users to run our software on the de.NBI cloud

# **ELIXIR Activities**



oolbox in Bioconductor

and beyond

- 20. 21.01.2020 **Toulouse** "Strategies for standards compliant reporting and data sharing" ELIXIR Metabolomics Community Meeting
- Part of ELIXIR Metabolomics community

### de.NBI Training and education

- 01. 03.04.2019 Wittenberg "de.NBI CompMS metaRbolomics Hackathon"
- 24.06.2019 **Den Haag** Workshop "Towards FAIR Spectral Libraries: a workshop for Maintainers, Developers



02. – 06.09. 2019 **Gatersleben** de.NBI Summer School 2019 "(Bio)Data Science"

# General information on the project

2 FTE, all positions are currently filled

and Power Users" at Metabolomics Conference 2019

Research group MSBI involved

#### **Publications**

- The metaRbolomics Toolbox in Bioconductor and beyond. Stanstrup, J. et al.; Metabolites 2019 9(10), 200. doi: 10.3390/metabo9100200
- FAIR Computational Workflows. Goble C et al.; Data Intelligence 2020 2:1-2, 108-121. doi: 10.1162/dint\_a\_00033
- mzTab-M: a data standard for sharing quantitative results in mass **spectrometry metabolomics.** Hoffmann N, et al.; Analytical chemistry 2019. doi:10.1021/acs.analchem.8b04310





