Center for Integrative Bioinformatics (CIBI Konstanz)
KNIME Analytics Platform for the Reproducible Analysis of Life Science Data

FKZ: 31A535C

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Short description of the project

**KNIME:**
- Open source workflow platform
- More than 2000 workflow nodes for various data processing tasks
- Consulting, training, and support for users and developers
- Integration of CIBI partner tools and many others

**de.NBI services**

**KNIME:**
- Consulting and software support for both users and developers
- Training users and external developers
- Integration of external tools and repositories via workflow nodes
- Improvements to software documentation and teaching material
- Two software releases per year
- Maintenance of build and test infrastructure

**Publications**

Workflow-basierte Datenanalyse mit KNIME
Martin Horn, Alexander Fillbrunn; Linux-Magazin 04/2018

Maschinelles Lernen mit KNIME in der Praxis
Martin Horn, Alexander Fillbrunn; Linux-Magazin 10/2018

Progress report

- **CWL integration**
  - Integrates any command line tool with CWL command line tool description into KNIME
  - Generates KNIME nodes including dialogs
  - Typed input and output ports
  - Type conversion utilities
  - Open sourced under github.com/bioworkstation/cwl

- **New Releases:** v4.0 and v4.1
  - Vastly improved performance
  - New cloud connectors
  - Rewrote database nodes
  - New Big Data nodes
  - Various enhancements

- **KNIME Hub (hub.knime.com)**
  - The go-to place for examples and information about nodes and workflows

Welcome to the KNIME Hub
The place to find and collaborate on KNIME workflows and nodes. Here you can find solutions for your data science questions.

![Search workflows, nodes and more...](image)

<table>
<thead>
<tr>
<th>Nodes</th>
<th>Components</th>
<th>Workflows</th>
<th>Exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>3620</td>
<td>144</td>
<td>1670</td>
<td>194</td>
</tr>
</tbody>
</table>

de.NBI Training and education

- **Trainings for users:**
  - Workshop on KNIME Spring Summit
  - KNIME Demo at GCB in Heidelberg

- **Training for developers:**
  - Hackathon in Konstanz

General information on the project

- 1 FTE paid through de.NBI
- Currently vacant