Chemotion ELN
Hands-on Workshop
Online - March 7th, 2024

LabIMotion

Field Types

Field Types

3 +1 Field categories

- *Independent field*
- *Fields for input directly by users*
- *Fields for input generated by other ELN elements or segments*
- *Fields for input and output generated from other fields*

Create a Field

After creating a layer, a field can be created by entering the name of the field next to the layer name. It must be letters, numbers and/or "_" ("field_name"). After clicking the "**+**"-button, a new field is created. The default field type is a **Text** field. Change the field type using the dropdown menu. Depending on the field type different options are available. You can always add a **hover info** and a **title**. Change the order of fields by clicking the up or down arrow-button in the field heading.

Independent field

- **Dummy field:**

Dummy fields can be used to structure a layer for more clarity. Press the "**+**"-button next to every field heading.

Fields for input directly by users

☐ This is a checkbox.

- **Checkbox**

A simple Checkbox that lets the user make a binary choice. It can be used as a restrictive field. Therefore, the values for the restriction need to be entered as "yes" or "no" (alternatively "1" or "0").

- **Date-Time Picker**

Enter or select the date and time.

Date-Time Picker

```
17/10/2023 00:00
```

- **Datetime Range**

Start	Stop	Duration			
17/10/2023 11:00:00 🕐	17/10/2023 14:20:00 🕐	3 hours 20 r	📋 →	3.3	h

Enter a starting time by simply clicking the clock-button at the first section. By clicking the clock-button in the next section a time interval will be calculated. You can use this interval or at one manually. This field always needs its own row.

- **Input Group**

Label	Define your label.	Number	1.234	volume		I

Enter multiple input fields in one **Input Group**. You can add a label, **Text** field, number, and **System-Defined** fields.

- **Integer**

Integer: Add any integer you want.

```
1, 2, 3, 10, 100, 1001, ...
```

Enter any integer. **Integer** fields can be used in **Formula** fields.

- **Select**

```
Select...                                    ⌄
One
Two
Three
```

Create a dropdown list on the right side of the **Work Area**. Enter the name of the select list. Then, add the needed options. You can create multiple select lists and use them in all layers of the element. It can be used as a restrictive field. Therefore, the values for the restriction need to be entered as the names of the corresponding option(s).

- **System-Defined**

	°C

Add a physical quantity provided by the ELN. The units can be changed later in the user interface. **System-Defined** fields can be used in **Formula** fields.

- **Table**

In a **Table**, **Text**, **System-Defined**, **Select, Drag Molecule**, and **Drag Sample** fields can be implemented. Press the "**+**"-button to add another row. The rows in the **Work Area** represent the columns in the user interface. Add a Heading, the field type, and a default value can be added for each column. **Drag Sample** comes with the option to split or copy the sample and add its external label, name, and molar mass. **Drag Molecule** has the options: InChiKey, SMILES, IUPAC, and molar mass.

- **Text**

This is a "Text" field.

Write anything!

Here, you can add any short, written information. **Text** fields can be used in **Text-Formula** fields.

- **Text Area**

A "Text area" field allows you to write longer written information.

Text Area fields allow to write multiple lines of text.

- **Upload**

"Upload" a file or dataset.

Drop File, or Click to Select.

Here, any file format can be uploaded *via* drag & drop or browsing the computer.

Fields for input generated by other ELN elements and segments

- **Drag Element**

Drag Element

An icon with drag & drop function to let the user add a prior created element.

- **Drag Sample**

Drag Sample

An icon with drag & drop function to let the user add an element. It will display the sample image after being added. You copy or split the sample.

- **Drag Molecule**

Drag Molecule

An icon with drag & drop function to let the user add an element. It will display the molecule image and its name after being added.

Fields for input and output generated from other fields

- **Formula**

Volume

20 |

> volume*2

Formula Field: Enter a formula. Incooperate other fields by simply
using their unique field name "field_name" and mathematical
operators (*, /, -, +). Click the arrow to adjust.

40   →   40

In a **Formula** field, simple mathematical operations can be executed automatically. The output decimals can be limited.

- **Text-Formula**

"Text-Formula" fields allow you to combine "text" fields from this and other layers in one display-only field. The "Text" fields can be separated by different separators (".", ",", "-", ...). This field time can help you organize and summarize the obtained written information at the top or the bottom of your generic element/segment/dataset.

This text is written in a "Text" field in another layer.

A (display only) field to let users combine **Text** fields from all layers of the generic design.