

```
1 \startmodule[chromato]
```

- 2 \writestatus{loading}{Macros for chromatograms}
- 3 \unprotect

Some internal dimensions:

4 \doifundefined{Width}{\newdimen\Width}
 \doifundefined{Height}{\newdimen\Height}}

\startChro.. Starting a chromatogram.

```
5 \def\startChromato{\bgroup\dosingleempty\dostartChromato}
\def\dostartChromato[#1] #2#3{\getparameters[CHROM][dim=0.6,#1]
\def\myChromFig{\doifdefinedelse{CHROMSdim}{%
\externalfigure[#2][height=\CHROMSdim\textheight]}{%
\externalfigure[#2][width=\CHROMdim\makeupwidth]}}%
\setbox\scratchbox\hbox{\myChromFig}%
\Width=\wd\scratchbox \Height=\ht\scratchbox \setuppositioning[unit=pt]
\gdef\SavedCaption{#3}\doifundefined{CHROMSdim}{\placefigure[][fig:#2]{#3}}%
\bgroup\startpositioning\position(0,0){\myChromFig}}
```

\stopChrom.. End of chromatogram.

6 \def\stopChromato{\stoppositioning\egroup\egroup{\doifdefined{CHROMSdim}{%} \SavedCaption}}}

\startChro.. Begin set of chromatograms.

7 \def\startChromatos{\dosingleempty\dostartChromatos}
 \def\dostartChromatos[#1] #2#3{\placefigure[][fig:#2]{#3}\bgroup
 \getparameters[CHROMS][dim=0.3,#1]
 \doifdefined{CHROMSdist}{\setupcombinations[distance=\CHROMSdist em]}%
 \startcombination[2*1]}

\stopChrom.. End of chromatograms.

8 \def\stopChromatos{\stopcombination\egroup}

Internal macro: position left or right:

9 \define[3]\LRposition{\edef\YPos{\withoutpt{\the\dimexpr(\withoutpt{\%} \the\dimexpr(#1pt/100)}\Height - 0.1\baselineskip)}}\% \position(#2,\YPos){\vbox to 2pt{\vss{\hbox to 0pt{#3}\vss}}}}

\Lbrace Place a brace at the left.

\Rbrace Place a brace at the right.

11 \define[4]\Rbrace{\LRposition{#1}{\withoutpt{\the\Width}}{\hskip#3em \rotate[rotation=270]{\$\overbrace{\hskip#2\Height}^{%} \displaystyle\text{\rotate[rotation=90]{#4}}}\$\hss}}

CONTEXT CONTEXT User Module

Macros for chromatograms

```
Place a flesh at the left.
\Larrow
                               \define[2]\Larrow{\LRposition{#1}0{\hss{\tx#2} $\rightarrow$}}
                                Place a flesh at the right.
\Rarrow
                                Place something above the chromatogram.
  \Above
\Abrace
                                 \define[3]\Oposition{\edef\XPos{\withoutpt{\the\dimexpr(\withoutpt{\%}
                                                         \t \int (\#1pt/100) \Width)}
                                                 \position(XPos, -\withoutpt{\the\dimexpr(#2\baselineskip)}){\%}
                                                 \hbox to Opt{\hss#3\hss}}}
                                 \left(0.8\right) \times \left(0.
                                 \define[3]\Abrace{\Oposition{#1}{2.5}{\%}
                                                 15
                                \protect
                                \stopmodule
                16
                               \doifnotmode{demo}{\endinput}
                                 Usage example:
                                \usemodule[chromato]
                                 \setupexternalfigures[directory=samples]
                                 \mainlanguage[de]
                                 \starttext
                                 \startChromato{ecolizeit}{Expression der rekombinanten Fucosyltransferase V in
                                         {\em E. coli}.}
                                         \Above{61}{1h}\Above{72}{2h}\Above{83}{3h}\Above{94}{4h}
                                         \Larrow{12}{97\,kDa}\Larrow{20}{66\,kDa}
                                         \Larrow{32}{45\,kDa}\Larrow{52}{31\,kDa}
                                         \Lbrace{39}{0.75}{4}{A}
                                         \Lbrace{90}{0.16}{4}{B}
                                         \Abrace{32}{0.42}{löslich}
                                         \Abrace{77}{0.42}{unlöslich}
                                         \Rarrow{29}{FucT V}\Rarrow{87}{FucT V}
                                  \stopChromato
                                 \startChromatos[dim=0.17,dist=2]{saeuger}{Expression von rekombinanter
                                         Fucosyltransferase V in unterschiedlichen Säugerzellinien.}
                                         \startChromato{saeuger}{A}
                                                 \Above{26}{CHO}\Above{74}{HEK}
                                                 \Larrow{4}{96\,kDa}\Larrow{37}{66\,kDa}\Larrow{81}{45\,kDa}
                                         \stopChromato
                                         \startChromato{saeugerred}{B}
                                                 \Above{26}{CHO}\Above{74}{HEK}
                                                 \Rarrow{81}{FucT V}
                                         \stopChromato
                                 \stopChromatos
                                 \stoptext
```

2 CONTEXT User Module CONTEXT

ackslash Above 2	$\Rbrace 1$
\Abrace 2	
	\startChromato 1
\Larrow 2	$\$ startChromatos 1
\Lbrace 1	\stopChromato 1
	\stopChromatos 1
\Rarrow 2	

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