Ludger News

January/February 2017

We would like to wish you all a healthy and prosperous 2017!

Glycan Analysis Workshop

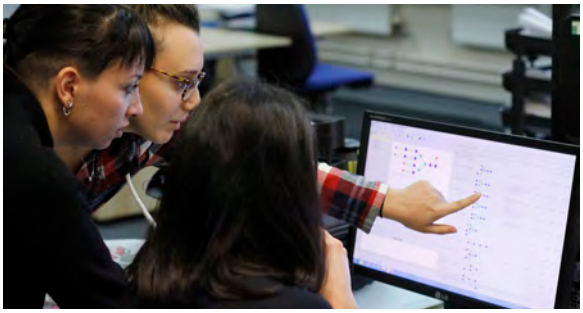
From November 28-December 2nd 2016 Ludger hosted the GlyCoCan Symposium & Workshop at Culham Science Centre, UK.

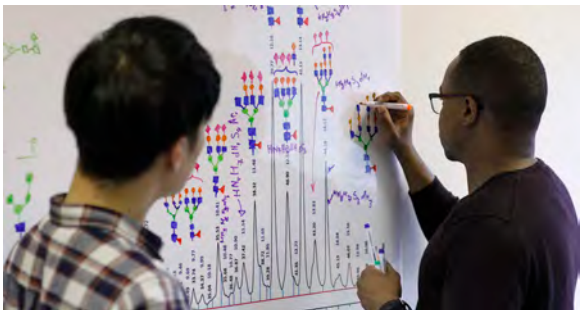
The goal of the GlyCoCan project is to discover improved diagnostic and prognostic biomarkers for colorectal cancer and pave the way for novel therapeutic targets. Events such as this workshop bring together scientists to discuss the latest developments in colorectal cancer research and offer training in current methods for glycoanalysis. 27 delegates (including PIs and Early Stage Researchers) attended this workshop to learn about different glycoprofiling technologies and analytical platforms and some interesting case studies.

During the week, talks were given by Ludger's Daryl Fernandes, Daniel Spencer, Louise Royle, Richard Gardner and Radoslaw P. Kozak, and the agenda also featured the following guest speakers:

Manfred Wuhrer (LUMC)
Yoann Rombouts (CNRS)
Stephanie Holst (LUMC)
David Harvey (Oxford Glycobiology Institute)
Erdmann Rapp (Max Planck Institute)

The workshop also included time spent in Ludger's glycomics laboratories for practical experience and data analysis. This event was great success.





Inflammatory Bowel Disease article published in Nature Communications

An article entitled 'Integrative epigenome-wide analysis demonstrates that DNA methylation may mediate genetic risk in inflammatory bowel disease' has been published in Nature Communications. Ludger is a member of the IBD-Biom consortium which contributed to the work.

Citation: DOI: 10.1038/ncomms13507

PNGaseF for High Throughput

Ludger will be offering a kit containing recombinant PNGaseF enzyme and buffers designed for high throughput applications allowing rapid and efficient release of N-glycans from a broad range of samples. The kit is sufficient for at least 150 samples and allows for release under denaturing as well as native conditions. We are using this for some exciting projects at Ludger where we need to process larger sample numbers.

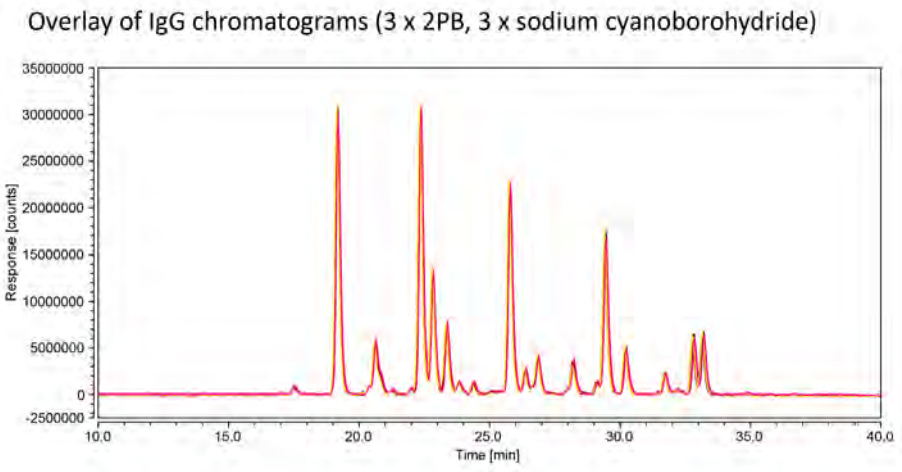
Ordering information:
PNGase F kit (recombinant enzyme and buffer) Cat # LZ-rPNGaseF-kit
Email: sales@ludger.com

Procainamide labelling comparability

Procainamide labelling permits glycan identification by either mass spectrometry or (U)HPLC, and because of its improved ionisation efficiency compared to 2AB labelling it can permit identification of minor glycans (<1% relative peak area) by ESI-MS. Ludger's procainamide labelling system is suitable for **N-glycans, O-glycans, GSL-glycans, heparin or any sugar with a reducing terminus**.

Our *new format* procainamide labelling kit (with sodium cyanoborohydride reductant, **LT-KPROC-24**) has been developed to allow an easy transition from labelling glycans with 2AB to procainamide, because sodium cyanoborohydride is a widely used reductant.

The data demonstrates that both versions of the kit are directly comparable. The figure below shows overlaid data from 6 data sets; six IgG procainamide labellings were performed at Ludger, 3 with LT-KPROC-VP24 and 3 with LT-KPROC-24.



Ordering information:
LuderTag Procainamide Glycan Labelling Kit, sodium cyanoborohydride reductant Cat # LT-KPROC-24
Email: sales@ludger.com
