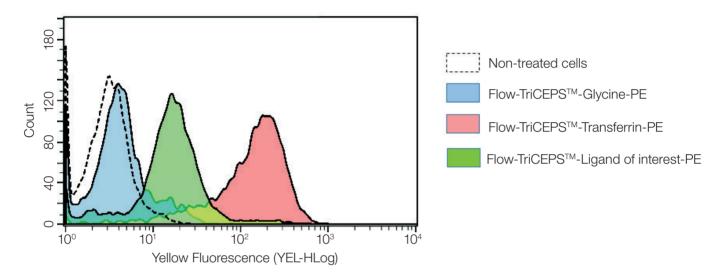


## Flow-TriCEPS™ Service and Kit

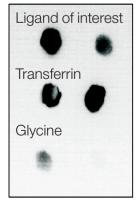
Flow-TriCEPS™ technology is a tool to perform pretests for your target identification studies on the living cells for drug candidates/ ligands such as peptides, antibodies, ADC's, proteins.

- Identify the best cell type to use in your target identification experiment
- Identify the optimal binding conditions for binding of your drug candidates/ligands on the living cells
- Identify co-factors needed for binding to the cells of your drug candidates
- Perform functional assays with Flow-TriCEPS™ coupled drug candidates/ligands



**Figure 1:** Flow cytometry results using ligands coupled to Flow-TriCEPS™ Version 2.0. The biotin group of the Flow-TriCEPS™ is detected using Streptavidin conjugated with R-Phycoerythrin.

- Which cell types express the unknown targets of my ligand / drug candidate?
- What is the best condition for ligand incubation (temperature, pH, time)?
- Are there any co-factors needed for optimal ligand binding?



Flow Cytometry TriCEPS<sup>™</sup> enables direct visualization of the binding of your ligand of interest to its unknown targets without the need of any detection antibodies. Your ligand is coupled to Flow-TriCEPS<sup>™</sup> Version 2.0 through its primary amines (N-term and lysines), the ligand binds to its targets on the living cells and the biotin of Flow-TriCEPS<sup>™</sup> is detected using a streptavidin fluorophore by flow cytometry.

**Figure 2:** Dot blot to control coupling of Flow-TriCEPS<sup>™</sup> to the ligands of interest. Negative control: Flow-TriCEPS<sup>™</sup> alone respectively coupled with glycine does not bind to the nitrocellulose membrane.



#### Flow-TriCEPS™



Cell selection and optimization of binding conditions for target identification

### LRC-TriCEPSTM



Identification of the targets and off-targets at the cell surface on the living cells

### **LRC-TriCEPS™** Publications

# Identification of Putative Receptors for the Novel Adipokine CTRP3 Using Ligand-Receptor Capture Technology

PLoS One. 2016 Oct 11;11 (10): e0164593. doi: 10.1371/journal.pone.0164593. eCollection 2016. Li Y., Ozment T., Wright GL., Peterson JM. (with support of Dualsystems)

# Serum stimulation of CCR7 chemotaxis due to coagulation factor XIIa-dependent production of high-molecular-weight kiningen domain 5

Current Issue – vol. 113 no. 45 – Manish P. Ponda, E7059–E7068, doi: 10.1073/pnas.1615671113

Contributed by Jan L. Breslow, September 23, 2016 (sent for review August 1, 2016; reviewed by Myron Cybulsky and Carl F. Nathan) - Manish P. Ponda and Jan L. Breslow (with support of Dualsystems)

#### Identification of cell surface receptors for the novel adipokine CTRP3

April 2016, The FASEB Journal, vol. 30 no. 1 Supplement 1249.2 - Jonathan M. Peterson (with support of Dualsystems)

## Laminin targeting of a peripheral nerve-highlighting peptide enables degenerated nerve visualization

Current Issue – vol. 113 no. 45- Heather L. Glasgow, 12774–12779, doi: 10.1073/pnas.161164211 Contributed by Roger Y. Tsien, August 3, 2016 (sent for review November 16, 2015; reviewed by Joshua E. Elias and Jeff W. Lichtman)

Heather L. Glasgow, Michael A. Whitney, Larry A. Gross, Beth Friedman, Stephen R. Adams, Jessica L. Crisp, Timon Hussain, Andreas P. Frei, Karel Novy, Bernd Wollscheid, Quyen T. Nguyen, and Roger Y. Tsien

#### Direct identification of ligand-receptor interactions on living cells and tissues

Nature Biotechnology 30, 997–1001 (2012) doi: 10.1038/nbt.2354 - Received 06 April 2012 Accepted 08 August 2012 Published online 16 September 2012

Andreas P Frei, Ock-Youm Jeon, Samuel Kilcher, Hansjoerg Moest, Lisa M Henning, Christian Jost, Andreas Plückthun, Jason Mercer, Ruedi Aebersold, Erick M Carreira & Bernd Wollscheid