

BIOMOTIF AB Introduce pi-TRAP™ *âcelus*

Automated, Gel-Free, MS-Compatible, pi-Fractionation of Peptides & Proteins

26 AUGUST 2018

XXII IMSC FLORENCE

FOR IMMEDIATE RELEASE

NEXT GENERATION PROTEIN FRACTIONATION

Biomotif AB (Danderyd, Sweden), will introduce its new pi-TRAP™ *âcelus* System at the 22nd IMSC conference in Florence, Italy.

The pi-TRAP *âcelus* System is the next generation of the company's disruptive technology platform for fully automated, gel-free & MS-Compatible fractionation of peptides & proteins in biomarker discovery research.

TRANSLATIONAL TECHNOLOGY PARTNERSHIP

Biomotif and Karolinska Institutet have co-pioneered the pi-TRAP *âcelus* System for automated, MS-compatible, high speed, isoelectric, pre-fractionation of peptides & proteins. The pi-TRAP *âcelus* System automatically pre-fractionates a complex protein sample into 30 fractions in about one hour to radically leverage biomarker discovery work-flows.

Biomotif AB is also proud to have partnered with Spark Holland B.V., a world-class provider of proven analytical technologies, to develop the auto sampling & fraction collection capabilities of the pi-Trap *âcelus*.

PRE-FRACTIONATION ENABLES DISCOVERY

Pre-fractionation of complex clinical samples containing 100,000s of proteins (with a vast dynamic range) is key to rigorous biomarker discovery. Protein pre-fractionation before analysis by LC/MS/MS allows researchers to dig deeper into the proteome and reproducibly discover more specific biomarkers.

MS-COMPATIBLE PRE-FRACTIONATION

ESI MS analysis of peptides & proteins occurs in the Liquid-Phase. The pi-Trap *âcelus* rapidly fractionates peptides and proteins in solution, and provides an orthogonal separation to hydrophobicity based HPLC.

DISRUPTIVE TECHNOLOGY

At the hart of the pi-TRAP *âcelus* System is Biomotif's proprietary multi-junction capillary isoelectric focusing (MJ-CIEF) pi-CELL™. After isoelectric focusing, a carrier buffer mobilizes the focused proteins towards the fraction collector. This process can cause band broadening of any residual proteins. The Biomotif pi-CELL uniquely enables recursive re-focusing after every fraction collection step, to counteract any band broadening effects. This unique technology allows up to 30 (re-focused) fractions to be collected automatically, while preserving the advantages of the primary isoelectric separation and all in about one hour.

VISIT US AT THE XXII IMSC IN FLORENCE

See the pi-TRAP *âcelus* System and meet the people behind its disruptive technology at booth #1 the home of our global distribution partner MS VISION.

ABOUT BIOMOTIF AB

Biomotif AB is an innovative Swedish lifescience company, focused on disruptive translational technologies. We co-pioneer innovations with academic partners and deliver them to the discovery research community world-wide. Our highly motivated team of engineers and scientists, based in the Stockholm region of Sweden are passionate about their technology, products and services.

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pi-Trap™ *âcelus*

biomotif
Capturing the essence of life

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pi-Trap™ *âcelus*

Exclusive Biomotif multi-junction capillary isoelectric focusing (MJ-CIEF) pI-Cell™.

Refrigerated autosampler and fraction collection manager for overnight unattended operation.

De-Salinators™ Integrated on-line semi-permeable nafion membrane desalting option.

Optional external AnESI™ robotic infusion interface for the automated MS/MS analysis of fractions.

Proven autosampler and fraction collection technology developed with Spark Holland.

