

Discipher brings rapid assay development to the masses

Plarion Ltd, with the Scandinavian biotech company LingVitae, have announced the development of their Discipher solution for rapid biochemical analysis.

The Discipher is a low-cost, walkaway system, based on a DVD drive, and DVD discs with microfluidic channels. The on-board reagent storage and sample preparation, along with automated analysis software, offers significant time advantage through minimal user interaction, also allowing a large number of tests to be done at the same time.

“Our aim with the Discipher is to democratise molecular and cellular analysis, putting low-cost easy to use tools in the hands of the wider community, outside of core laboratories.”, said Dr Jackie Cole, Head of Marketing for Plarion.

The Discipher platform offers users a powerful and versatile tool which can be applied to a wide variety of applications, for example;

- real time isothermal DNA amplification
- ELISA
- blood tests - eg cholesterol, lipids, glucose, blood typing, CD4/8 counts etc.
- bead label imaging & counting



The prototype Discipher platform



Microfluidic channels on a DVD disc

Plarion have identified a number of strategic partners and will shortly be ready to place DTK (development toolkit) instruments in the hands of these key assay developers for evaluation.

“By placing DTK instruments with commercial assay developers, we are able to refine our implementation for specific arenas, and offer a diagnostic development space that is as wide as possible.” said Cole.

"Our focus is to enable assay developers to improve their product offering and boost their sales by capturing new markets that can not be reached with their current platforms."

To order a Discipher assay development toolkit system, contact jcole@plarion.co.uk

Plarion Ltd is a scientific engineering company, developing new products and solutions, and providing specialist R&D services based on thin film, nano-replication and optical media and drive technology. www.plarion.co.uk

The LingVitae Corporation is a technology development company founded in Oslo (Norway) in 2002 in order to develop diagnostic technologies and platforms, specialising in the field of DNA analysis. www.lingvitae.com