



Founded in 2010, Shantani Proteome Analytics Pvt. Ltd. is a privately-held biotechnology company. We provide novel chemical-proteomics based technologies and services to identify & validate drug targets; thus de-risking molecules and supporting crucial GO / NO-GO decisions throughout the drug discovery process.

Services

Shantani's target ID services and deconvolution workflow are used for:

1. **Target ID:** Identifying the target(s) of bioactive molecule selected via phenotypic screens allowing (a) rational design of molecule and (b) understanding its mechanism-of-action
2. **Toxicity Profiling:** Identifying the off-target(s) of 'hit-to-lead' molecule to profile its toxicity adding to candidate selection strategies
3. **Drug Repurposing:** Identifying the secondary target(s) of marketed molecules to provide rational basis for its repositioning/repurposing

Technology

Shantani offers a portfolio of target ID technologies that provides an unbiased approach to identify few yet 'rightful' targets and gives comprehensive information about the action mechanism of bioactive molecules. Some of these technologies can achieve false positive target identification rates as low as 20%.

We assist our clients in identifying methodologies that are best suited to their research requirements. Shantani does target ID using:

1. **Sub Cellular Location Specific Target Capture Technology (SCLS):** Utilizes custom-made, sub-cellular location specific peptide probes to capture targets.
2. **Unique Polymer Technology (UPT):** Utilizes custom-synthesized, proprietary affinity polymer matrix to capture targets of 'non-derivatized' molecule.
3. **Traditional Bead and Biotinylation Technology (TBB):** A well established method that utilizes specific affinity matrix (solid based bead or isolation agents like biotin) to enrich and capture target proteins.
4. **Computational Docking Based Target Identification (COMP):** Deconvolutes target(s) by utilizing our proprietary computational methodology and algorithms for every specific molecule, based on comparison with historical data-sets.

For details, technical notes & application notes, visit www.shantani.com.

Management

Shantani's executive team consists of industry professionals with deep expertise and experience in chemical proteomics, drug target deconvolution & interaction measurements, life sciences research, and B2B technology business development across US, UK & India.

Company Profile

Scientific Advisors

Dr. John E Hale
Dr. Peter T Kissinger
Dr. Dongping Zhang
Shrikumar Suryanarayan

Board of Directors

Rajesh Rai
Karthik Reddy
Sanjay Mirchandani
Chaitanya Saxena
Vikas Saxena

Investors

India Innovation Fund
Blume Ventures
Technology Development Board

Partners

National Chemical Laboratory
Center for Cellular & Molecular Platforms
v-Life Sciences Technologies
TCG Lifesciences
Global Commercialization Group, IC² Institute
Center for Advanced Mass Spectrometry

Supporters

Department of Biotechnology, Govt. of India
Entrepreneurship Development Center

Locations

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