

Translational Sciences Division

Designed by drug developers, Run by drug developers

Translational Sciences Division

From Bench to Bedside: Translational Sciences is the interface between basic science and clinical medicine



Customized Translational Sciences Solutions



Translational Strategy

- Drug Development Biomarker Strategies: Preclinical to Filing
- Post-market Clinical Research Strategy
- Large Molecule Bioanalytical Strategy
- Bioanalytical and Biomarker Assay Life Cycle Management

Scientific Partnership

- Scientific Guidance and Oversight of PK, Immunogenicity, and Biomarker Projects
- Critical Reagent Design and Management
- Data Analysis and Interpretation
- Scientific Integration with drug development stakeholders

Regulatory Engagement

- Author and Review Bioanalytical and Biomarker sections for INDs, study protocols & reports, & filing documents
- Regulatory Q&A
- Data-driven Influencing of Regulatory Guidance

TS Leadership



Lauren Stevenson, PhD, Vice President of Translations Sciences Division

- Industry-wide thought leader in biomarker development, large molecule BA, and immunogenicity; extensively influences industry best practices and regulatory guidance.
- 20+ years of drug development experience, building and leading scientific teams with expertise in setting biomarker & BA strategies and developing PK, immunogenicity and biomarker assays.
- Her experience spans multiple modalities and disease indications through all stages of development, from discovery to post-market.
- Lauren is passionate about people development, has received certification as a Strengths coach and is active in mentorship and career development programs.



Devangi Mehta, PhD, Executive Director of Translations Sciences Division

- Recognized thought leader in translational sciences and has led scientific teams that deliver biomarker & BA strategies to support internal program decision-making, regulatory submissions, post-marketing and drug-positioning goals.
- 14+ years of drug development experience and developing PK, immunogenicity and biomarker assays to support drug programs from discovery-to-post-market and spanning multiple disease indications.
- Externally, Devangi has special interests in advancing industry-wide best practices for assay development and “fit-for-purpose” validation of ligand-binding and flow cytometry biomarker assays.
- Devangi is passionate about bringing the science to patients through integration of translational research and medical education.

Multiplying Value: Integrated Team Model

Prior experience: Demonstrated Proof-of-Concept

Matrixed Team of 18 Scientists

- ✓ 44 Drug programs – LM, SM, ASO, GT
- ✓ Across multiple therapeutic areas – Immuno, Neuro, Rare Disease, Fibrosis
- ✓ 57 distinct Bioanalytical and Biomarker scientific leader roles
- ✓ Critical reagent generation and resupply for >30 programs
- ✓ Assay life cycle management for ~300 assays
- ✓ Leaders in Bioanalytical and Biomarker Industry – authors of multiple white papers
- ✓ Successfully influenced regulatory guidance – e.g. FDA 2019 Immunogenicity Guidance




Biomarker Strategies to Enable Data-driven Decisions



Building a biomarker strategy and tools to translate preclinical research into the clinic

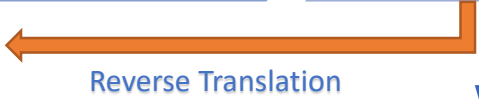
Selecting the Right Drug and Dose:

- ✓ Target Engagement
- ✓ Pharmacodynamic activity
- ✓ Proof-of-Biology
- ✓ Refine disease subpopulations



Improving the Probability of Success:

- ✓ Modulation of Disease Biomarkers
- ✓ Patient enrichment and selection
- ✓ Safety profiling
- ✓ Product differentiation and label claims



BM assay development:

- Establish Context of Use
- Select right technology
- Fit-for-purpose validation
- Understand clinical Implementation

Post-market Life Cycle Management:

- ✓ Respond to emerging clinical data
- ✓ Medical Affairs translational research
- ✓ Expand to new indications
- ✓ Reverse translation to drug pipeline

Core Expertise in Biomarker Assay Development

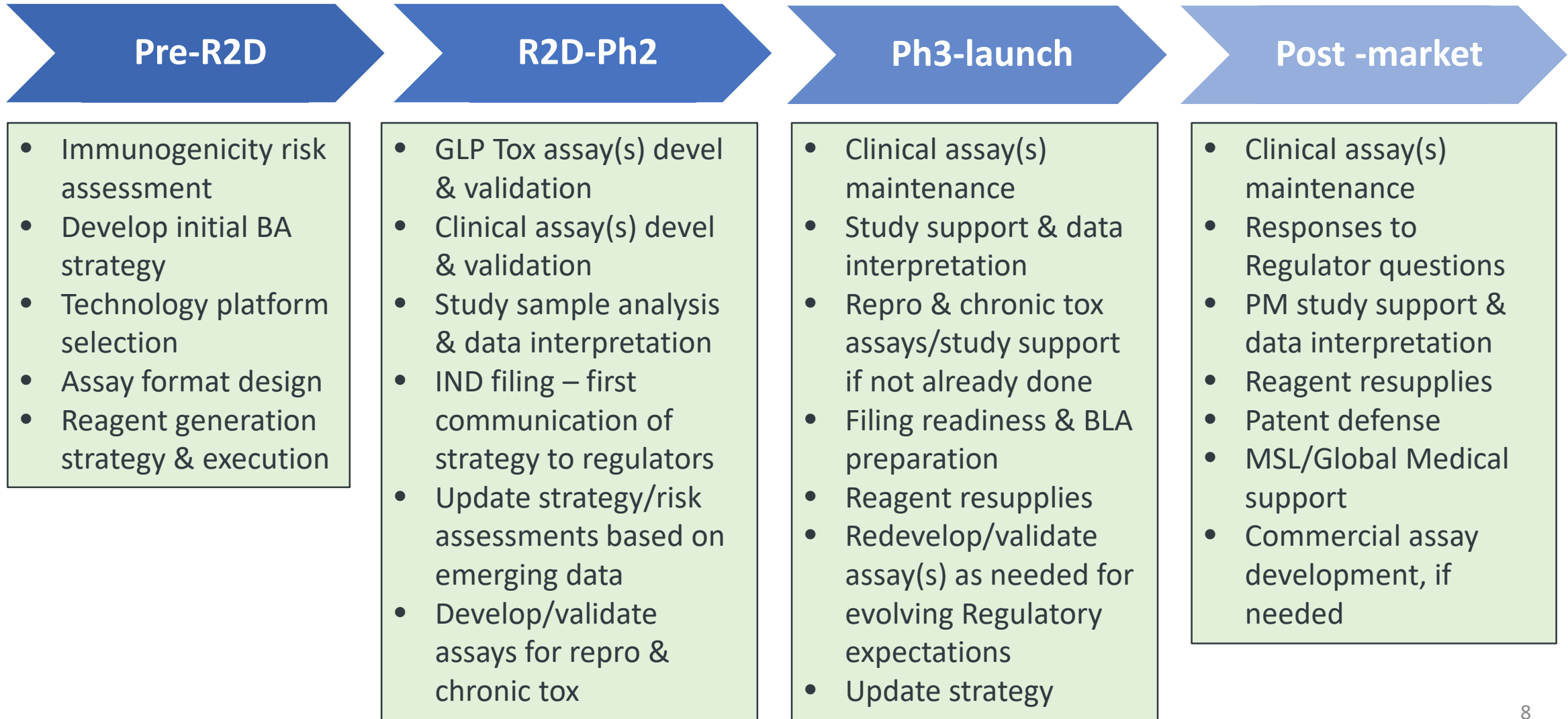


BM assay development:

- Establish Context of Use
- Select right technology
- Fit-for-purpose validation
- Understand clinical Implementation

- ✓ Ligand Binding Assays (ELISA, MSD, ECL, Gyros)
- ✓ Emerging and High-Sensitivity Technologies (Simoa™, SMCxPro™, Ella™)
- ✓ Flow Cytometry
- ✓ Ex-vivo stimulation & cell-based assays
- ✓ Targeted genomic and qRT-PCR assays

Bioanalytical (PK & Immunogenicity) Strategy & Execution



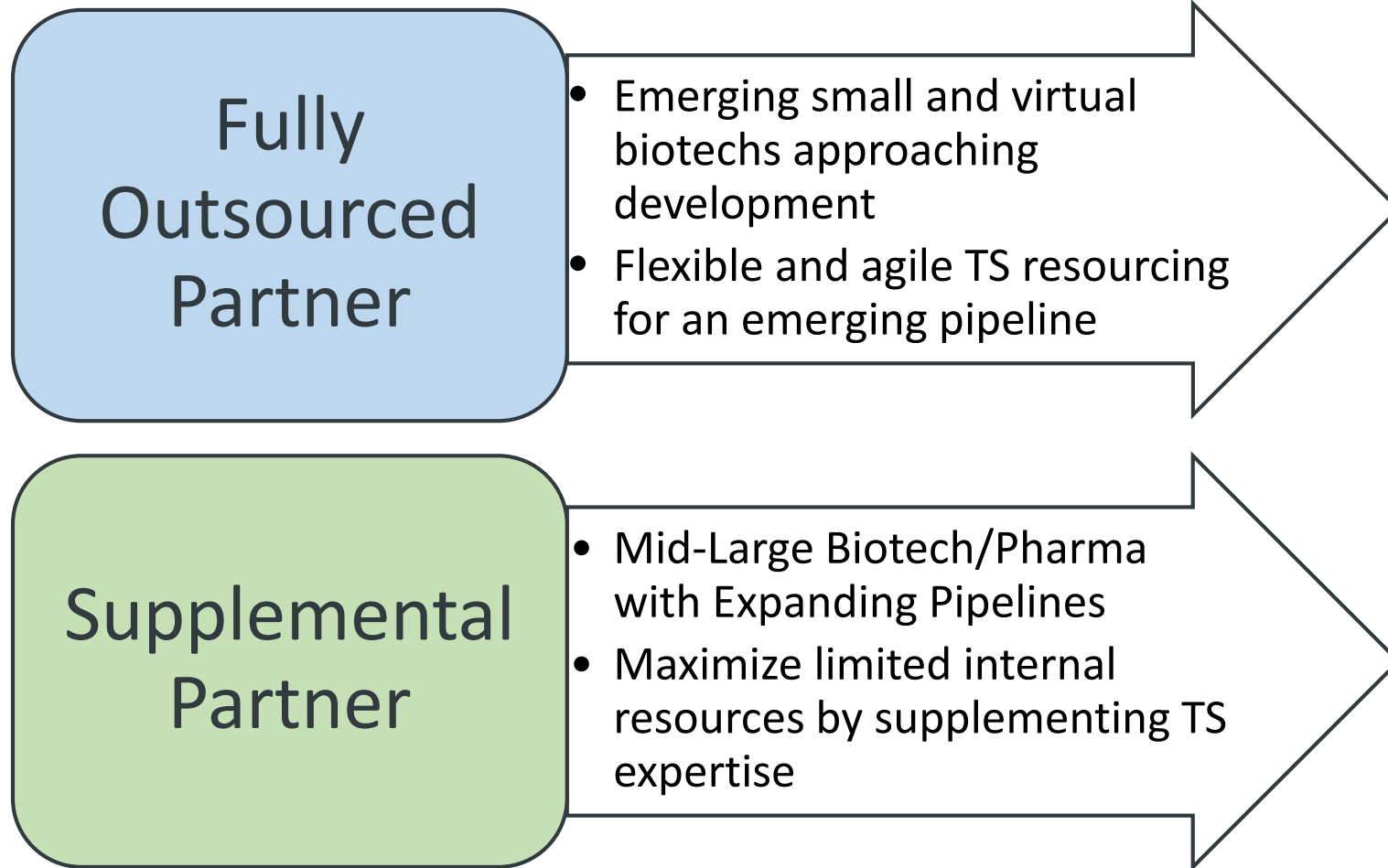
Core Expertise in Bioanalytical Assay Development

BA assay development:

- Select right reagents
- Select technology platform & assay format
- GxP validation
- Iterate for multiple species, disease populations & evolving regulations

- ✓ PK assays
- ✓ Anti-drug antibody assays
- ✓ Neutralizing antibody assays
- ✓ Integrated PK, PD, ADA data to inform presence of neutralizing activity
- ✓ Critical reagent generation, inventory & resupply
- ✓ Assay life cycle management
- ✓ Technologies
 - ✓ Ligand Binding Assays (ELISA, MSD, ECL, Gyros)
 - ✓ ImmunoPCR
 - ✓ Flow Cytometry

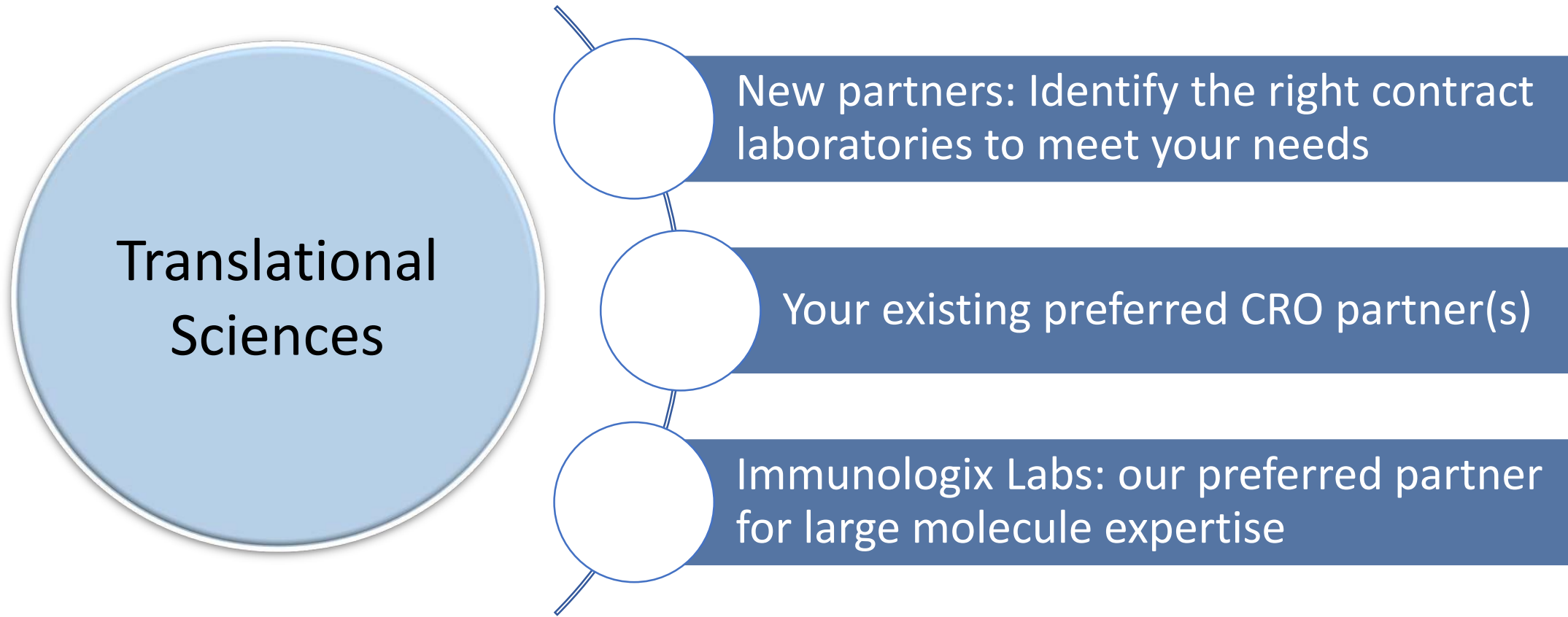
Partnering with Translational Sciences



Fully customizable to meet the needs and working styles of our partners

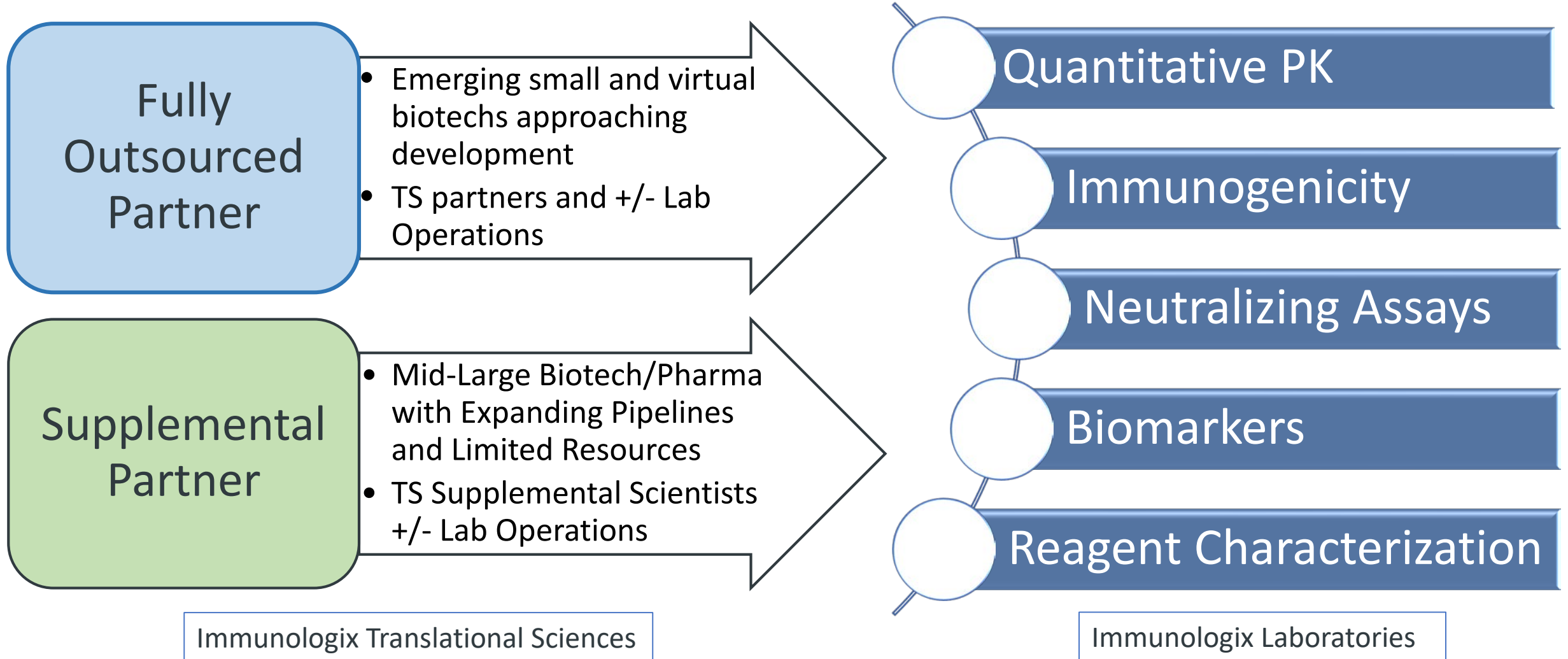
Execution of translational strategies requires flexibility

TS is committed to providing the best laboratory solutions for your needs



Many projects will require utilization of multiple labs

Synergizing with Immunologix Laboratories Assay Experts



Immunologix Translational Sciences

Immunologix Laboratories



Where to start?

Contact us to schedule an introductory discussion & partnership options

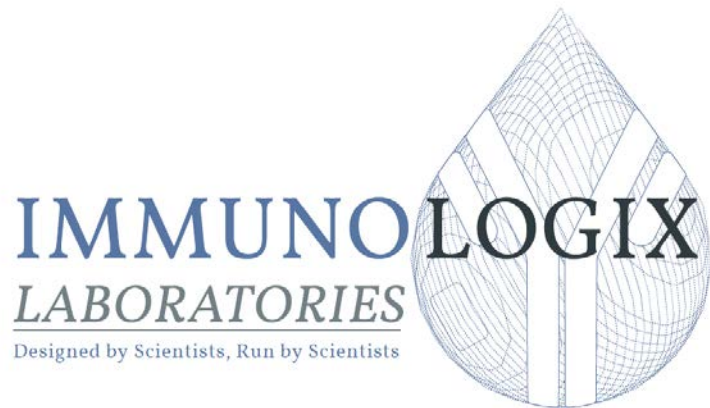
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