LEADING THE WAY IN RESEARCH & DEVELOPMENT

PEOPLE. PASSION. POSSIBILITIES.
AbbVie Immunology is developing a portfolio of innovative programs with the goal of delivering superior efficacy in autoimmune and inflammatory diseases.

**TARGETS, MOLECULES AND BIOLOGY**

- **Lymphocyte biology**
  - Inhibition of cytokine signaling
  - Inhibition of lymphocyte activation and cell migration
  - Modulation of co-regulatory pathways
  - Modulation of T-regulatory cell (T-reg) activity
- **IL-17 Pathway**
  - Inhibition of Th17 differentiation/ regulation and IL-17 production
  - Blocking IL-17 ligand/receptor interactions
  - Inhibition of IL-17 mediated signaling and cell migration
- **Myeloid cell biology**
  - Myeloid cell trafficking
  - Modulation of myeloid cell activation and differentiation
- **Immune system modulation by the microbiome**
- **Cartilage repair and anabolism**
- **Novel target pairs that can be engaged simultaneously for therapeutic intervention using AbbVie’s DVD-Ig™ technology**

**TOOLS AND TECHNOLOGIES**

- Novel preclinical autoimmune disease models
- Unique and predictive biomarkers of autoimmune disease progression and response to therapy, including biomarkers that can identify subsets of autoimmune disease patients
- Targeted delivery of biologics and small molecules, including sustained intra-articular delivery and methods for topical delivery of biologics
AbbVie has developed a compelling portfolio of preclinical and clinical oncology programs that target pathways involved in apoptosis, cell proliferation, DNA repair and cell-cycle regulation.

The goal of the AbbVie oncology strategy is to advance cancer therapeutics that provide transformational treatment options for patients. The current oncology portfolio consists of a balanced mix of small molecules and biologics programs, supported by experienced drug discovery and clinical development teams. We seek to further augment our portfolio with the following:

**TARGETS, MOLECULES AND BIOLOGY**
- Early phase small-molecule compounds or biologics that are first-in-class or can be clearly differentiated from existing therapies.
- Two key areas of focus:
  - Augment internal pipeline – Apoptosis, Epigenetics, Antibody-drug conjugates and Immuno-oncology
  - Build expertise in emerging areas – cancer metabolism, DNA repair/checkpoint, mechanism of resistance, protein homeostasis and tumor stroma matrix
- Novel small-molecule or biologic targets, including for ADCs
- Approaches to target the tumor microenvironment, including tumor-associated macrophages, cancer-associated fibroblasts, tumor infiltrating lymphocytes and assays for these important cell types

**TOOLS AND TECHNOLOGIES**
- Antibody-drug conjugate technologies, including novel warheads, linkers and site-directed conjugation approaches
- Preclinical disease models, particularly GEMMs and other approaches for evaluation of immunomodulatory mechanisms
- Novel imaging and biomarker technologies
- Access to annotated tumor samples
AbbVie Neuroscience is developing a portfolio of differentiated products in neurodegenerative diseases like Alzheimer’s disease, Multiple Sclerosis and Parkinson’s disease.

Our current innovative research focuses on developing therapies for neurodegenerative diseases by targeting mechanisms that block neurodegeneration and promote neuroprotection and regeneration. We are interested in highly validated targets and biomarkers.

**Targets, Molecules and Biology**

- Four key areas of focus:
  - Protein misfolding and clearance with emphasis in mechanisms targeting autophagy, endocytosis, Tau and protein spreading
  - Synaptic and network dysfunction
  - Metabolic dysregulation
  - Neuroinflammation
- Alzheimer’s Disease assets that provide cognition plus behavioral benefit or select behavioral benefit alone (e.g., agitation/aggression)
- Assets with true breakthrough cognitive improvement potential
- Assets that block neurodegeneration and/or promote neuroprotection
- New delivery methods that improve on L-dopa PK profile, with significant improvement in efficacy

**Tools and Technologies**

- Disease-specific, diagnostic, prognostic and progression biomarkers, along with validated assays for assessing serum and CSF marker levels
- Imaging tools, ligands and related techniques that allow estimation of brain exposure of therapeutics
- Technologies that facilitate/enhance transfer of small molecules and biologics across the blood-brain barrier
- Novel preclinical disease models relevant to neurodegenerative diseases
AbbVie is building a portfolio of preclinical and clinical programs that target the underlying pathophysiologies involved in diabetic nephropathy.

Diabetic nephropathy (DN) is a progressive kidney disease caused by longstanding diabetes mellitus (type 1 or 2) and is the leading cause of end-stage renal failure and kidney transplantation. We are particularly interested in the following areas of renal research:

**TARGETS, MOLECULES AND BIOLOGY**
- Novel targets and/or pathways related to glomerular injury, inflammatory tubular processes and resulting fibrosis, particularly those associated with rapid disease progression
- Novel small molecule and antibody based therapeutics aimed at restoration of normal renal function
- Novel small molecule and antibody based therapeutic approaches capable of slowing, preventing or regressing the disease process

**TOOLS AND TECHNOLOGIES**
- Access to human kidney tissue samples to better understand the underlying pathophysiology
- Translational biomarkers that enable measurement of disease progression
- In vitro and in vivo models for assessing disease-modifying approaches and predictive preclinical disease models
- Tools and technologies for screening (e.g., phenotypic screens using human-derived cells)
We are committed to developing a broad portfolio of highly effective, differentiated biologic therapies that address medical needs across a spectrum of disease areas. We are seeking innovative technologies to enhance our existing technology platforms and further enable the discovery of best-in-class protein therapeutics.
TECHNOLOGIES FOR THE DISCOVERY, ENGINEERING AND OPTIMIZATION OF PROTEIN THERAPEUTICS

- Enabling technology platforms for targeting complex membrane proteins (e.g., GPCRs or ion channels)
- Innovative automation solutions for antibody generation, from B/hybridoma cell cloning to protein production
- Novel immunogenicity assessment tools
- Predictive bioinformatic tools for protein therapeutics design and engineering
- Modulation of effector function biology
- Rapid and miniaturized screening techniques for optimizing protein stability and drug-like properties
- High-throughput systems for protein expression, characterization and stability

INNOVATIVE TECHNOLOGIES FOR DRUG DELIVERY AND DISTRIBUTION

- Local and sustained release of protein therapeutics
- Technologies to enable targeted localization/activation of protein therapeutics in diseased tissues
- Alternative routes of delivery (e.g., oral, dermal, topical)
- Delivery across the blood-brain barrier
- Elimination of transplacental exposure
- Intracellular delivery of protein therapeutics

NEXT-GENERATION PROTEIN THERAPEUTICS TECHNOLOGIES

- Multispecific antibody platform technologies
- Approaches that would enable the delivery of therapeutic payloads by antibody-drug conjugates
WHY COLLABORATE WITH ABBVIE?

- AbbVie is dedicated to carefully evaluating every partnership and technology presented to us, and our licensing professionals thoughtfully manage each opportunity and inquiry we receive.
- Bring us an idea and we’ll work with you to develop research plans with clearly defined objectives that will advance your research.
- Our research teams are highly collaborative and seek to work with motivated investigators who bring complementary skills.
- AbbVie is willing to bring our internal R&D expertise to bear, where appropriate, to advance collaborations.
- AbbVie has extensive experience in establishing fruitful relationships and will work to address the needs of investigators and institutions in setting up agreements.

As you weigh the many partnership opportunities available to you, consider what you aim to achieve.

At AbbVie, our reasons are clear. Our passion is for translating science into effective medicine for the good of patients. Together with our partners, AbbVie shares a commitment to address the world’s greatest health needs.

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