



# Servier is entering a phase of programmatic deal-making







Strengthen our R&D capabilities with innovative technologies through flexible deal structures







# Oncology

## In Licensing \_\_\_\_\_

## **Deal types**

**Global rights** as a priority or Regional (EU or USA followed by China or Japan)

### **Discovery & Early-Stage Clinical Focus**

### **Cancer cell targeting**

- Synthetic lethality
- Apoptosis
- Precision oncology
  - Biomarker-defined populations

#### Immuno-oncology

- Tumor immune micro-environment
  - T-cell targeting

#### **Late-stage Clinical Focus**

- Hematologic tumors (ALL, AML, MDS)
- Solid tumors (GI & CNS as a priority)

#### **Modalities**

Small molecules and biologics (mAbs, bispecifics, ADCs)

## Out Licensing

- Global or Regional
- Co-Development, Research Collaborations

# Global BD \_\_\_\_\_



Anne Dagallier
Global Head of Licensing Oncology
anne.dagallier@servier.com



Alix Scholer-Dahirel, PharmD

Director, Business Development 
Oncology

alix.scholer-dahirel@servier.com



Valérie Agrapart, PharmD
Director, Business Development
Oncology
valerie.agrapart@servier.com



Jérôme Roussel, PharmD

Director, Business Development Oncology &

Diagnostics

jerome.roussel@servier.com

### R&D Search & Evaluation



Irene Blat, PhD
Senior Director, Search & Evaluation,
Oncology
irene.blat@servier.com



Tian Li, PhD
Associate Director, Search & Evaluation,
Asia-Pacific
tian.li@servier.com

## Local BD



USA
Pat Fetaya, MBA, MSc
Head, US Business Development
pat.fetaya@servier.com



Asia
Cynthia Wang, MBA, MSc
Director, Business Development Asia-Pacific
cynthia.wang@servier.com

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Valérie Coudane

GBD Coordination Officer, Oncology

valerie.coudane@servier.com



# Neurology

## Any pre-clinical & clinical stage

### Indications: Rare neurological disorders

- Rare movement disorders exemplified by ataxias, Multiple System Atrophy, Huntington's Disease, Progressive Supranuclear Palsy
- Neuromuscular disorders exemplified by Amyotrophic Lateral Sclerosis, Spinal Muscular Atrophy, Myasthenia Gravis, Facioscapulohumeral muscular dystrophy, Duchenne Muscular Dystrophy, Dystrophic Myotony
- Refractory epilepsies exemplified by Lennox-Gastaut, Dravet, West, DEEs
- **Generically driven ASD** exemplified by Rett, Fragile X Syndrome, Phelan McDermid, Angelman
- Leukodystrophies
- Peripheral neuropathies exemplified by Charcot-Marie-Tooth

#### Modalities and drug delivery

- Small molecules, Oligonucleotides, Antibodies
- Technologies improving brain delivery, biodistribution profile, cellular specificity targeting and BBB crossing after systemic administration (especially for ASO)

## Global BD



Jørund Sollid, PhD Global Lead, Neurology jorund.sollid@servier.com



Project Director, Neurology david.theron@servier.com

## **R&D Search & Evaluation**



Camille Nicoleau, PhD
Director, Search & Evaluation,
Neuroscience
camille.nicoleau@servier.com



Tian Li, PhD
Associate Director, Search & Evaluation, Asia-Pacific
tian.li@servier.com

## Local BD



USA
Pat Fetaya, MBA, MSc
Head, US Business Development
pat.fetaya@servier.com



Asia
Cynthia Wang, MBA, MSc
Director, Business Development Asia-Pacific
cynthia.wang@servier.com

### Global BD Coordination



Lara-Maria Matar

GBD Coordination Officer, Neurology

laramaria.matar@servier.com



# Cardio-Metabolism & Veinous



#### **Indications**

- Hypertension
- Heart Failure
- Coronary Artery Diseases
- Dyslipidemia
- Diabetes
- Chronic Venous Insufficiency

### **Development Stage**

From ongoing phase 3 to Commercial

#### **Deal Type**

- Licensing
- Asset Purchase

### **Geographic Scope**

• Europe & Row (excl. USA & Japan)

## Global BD \_\_\_\_\_



Patrick Lenoir

Global Head of BD - CMVD

Patrick.lenoir@servier.com



Flore Dutreil
Director, BD CMVD
flore.dutreil@servier.com

# Local BD -

Asia



Cynthia Wang, MBA, MSc
Director, Business Development Asia-Pacific
cynthia.wang@servier.com

## Global BD Coordination ————



Delphine Duong

GBD Coordination Officer, Research Transactions & CMVD

delphine.duong@servier.com



# Therapeutic modalities & technologies



## Modality development strategies

#### **Small Molecules**

- Kinase, PPi, Receptor modulators; Molecular Glues,
   Bifunctional molecules, Small molecule targeting RNA for targeted protein degradation/upregulation
- Targeted delivery: prodrugs/polymer drug conjugates/targeted Lipid Nano Particles, Exosomes, Extracellular Vesicles
- Compound Library

### Oligonucleotides

- Novel Monomers, Antisense Oligonucleotide (ASO)
   design technologies, ASO-conjugates and drug delivery systems,
   targeted saRNA, selective cell ligand targeting for neuronal cell delivery
- Oligo-Manufacturing

#### **Antibodies**

- Novel Formats: Ab Fragments, Single Domain Antibodies, Bi-/ Multispecifics, optimized Fc domains
- Novel technology platform for Antibody Hard-to-Drug targets
- Synthetic antibody libraries
- ADCs linkage Chemistry/ Conditionally active antibody format

## R&D Search & Evaluation



Georges Da Violante

Director, Search & Evaluation, Enabling Technologies

georges.da-violante@servier.com



Tian Li, PhD

Associate Director, Search & Evaluation, Asia-Pacific tian.li@servier.com

## Global BD Coordination



Delphine Duong

GBD Coordination Officer, Research Transactions & CMVD

delphine.duong@servier.com



# Drug discoveries & development technologies



### Phenotypic cell platforms & 3D models

- iPSCs, patient derived models
- Co-culture models
- Organoids, tumoroids (PDAC, CRC, other solid tumors)
- Organ on a Chip (liver, brain, kidney)

#### High throughput functional & stability

- antibody screening
- Antigen specific Immuno-Oncology assays

**Protein Sciences** 

- Microfluidic or micro arraytechnology Bcell workflow
- Multi-protein production
- High throughput Mass Spectrometrybasedproteomicanalysisapproach
- Mass Spectrometry target

### **Imaging**

- High content imaging (tissues/cells) and analysis
- Multimodal platforms Multiplexing, Spatial multiOmics Strategy, Spatial Phenotypic auantification
- In vivo visualization of antisense oligonucleotides (ASO) biodistribution
- ASO tolerability assays

### **Sample Optimization**

- Universal sample preparation
- Laser Capture Microdissection
- Single cell analysis ATAC (Assay for Transposase Accessible Chromatin)
- High throughput Mass Spectrometrybased proteomic analysis approach

### **Liquid Biopsies**

- Circulating tumor DNA (ctDNA) and Methylation assay development
- Circulating Tumor Cells (CTC)
- Exosomes or Extracelllar Vesicle extraction from Blood for Biomarker Identification.
- Technology to improve sensitivity
- Computational methods for Next-Generation Sequencing

### Flow Chemistry

- Multistep synthesis
- Photochemistry, Electrochemistry
- Automation of downstream process (quenching, phase separation, distillation)
- Continuous crystallisation/drying/milling
- In line analysis.
- Continuous manufacturing in Pharma



Georges Da Violante Director, Search & Evaluation, Enabling Technologies georges.da-violante@servier.com



Tian Li, PhD Associate Director, Search & Evaluation, Asia-Pacific tian.li@servier.com



# Artificial Intelligence (AI) & digital technologies applied to R&D



### Focusing on a patient-centered use of AI and digital technologies to:

- Enrich our pipeline by either developing first in class new drugs or by repurposing existing drugs.
- Improve treatment effectiveness, reduce adverse effects and enhance patient outcomes
- Accelerate our Drug Discovery & Development processes

#### Therapeutic modalities

Small molecules, Antisense Oligonucleotides (ASO), Antibodies (mAbs, bispecifics, ADCs).

#### Main thematic of our data analytics strategy:

#### **Early Research**

 Target identification and validation, Hit screening and validation, Drug Design, patient stratification.

#### Late Research

• Treatment understanding, DMTA cycle optimization, Disease understanding, biomarker identification.

#### **Early Development**

- Disease modelling, optimization of clinical trial design, biomarker validation.
- Drug product development & characterisation

#### **Late Development**

 Strategy for patient finding and site selection, Optimization of medical authoring, Patient-centric clinical trial execution, Pharmacovigilance processes optimization.

## **R&D Search & Evaluation**



Franck Augé, PhD
Director, Search & Evaluation, AI & digital technologies
franck.auge@servier.com



Tian Li, PhD
Associate Director, Search & Evaluation, Asia-Pacific tian.li@servier.com

## Global BD Coordination



Delphine Duong

GBD Coordination Officer, Research Transactions & CMVD

delphine.duong@servier.com



# Digital, Data, Artificial Intelligence (AI) Opportunities & Beyond-the-Pill solutions



## Preferred Digital & Al use cases

#### Initiatives focusing Pharma operational efficiency & decision-making

- Al Medical, Health Equity and Patient Insights management
- Sales Forecasts, Supply Chain, Manufacturing & Employee optimisation

### Examples of solutions supporting HealthCare Professional (HCPs) activities

- HCP Education & omnichannel support (content tagging...)
- Clinical Decision Support Tools and clinical trials platform optimization
- Remote patient monitoring & dashboards

#### Examples of beyond the pill solutions supporting patients & caregivers

- Solutions supporting adherence (esp. Chronic disease) & quality of life
- Patients journey insights and personalization (esp. Oncology)
- Solutions offering education & gamification possibilities

## Preferred modalities

Geographic scope Worldwide (or regional)

Deal types Co-development, licenses, strategic partnerships & beyond

#### Preferred maturity stage & technical aspects

- Ready to use solutions
- Previous pharma partnerships
- Medical Device (depending on use case)
- Clinical benefits targeted



**Véronique Frechin** 

Head of department, Scouting, Partnerships & Strategy WeHealth Digital Factory

veronique.frechin@servier.com

## Scouting Contacts



Fiona Clemente
Scouting Manager
fiona.clemente@servier.com



Gaëlle Nou
Scouting Officer
gaelle.nou@servier.com

## Partnerships & Strategy



Grégoire Guillet
Chief Business & Value Officer
grégoire.guillet@servier.com



# Assets available for partnering or sale



The following assets have been de-prioritized in our portfolio, and we would welcome a discussion with interested parties:

Asset	Target	Modality	Stage	Therapeutic area
S095043	LILRB1/2	Monoclonal antibody	PCC	Oncology
RHU030	Galectin-3	Monoclonal antibody	Lead optimisation	Immuno- Inflammatory



If interested, please fill in the <u>on-line form</u> and a member of Global Business Development will respond.



