

# Connective Tissue Growth Factor - Pipeline Review, H2 2019

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## Abstracts

Connective Tissue Growth Factor - Pipeline Review, H2 2019

### SUMMARY

Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) - Connective tissue growth factor (CTGF), also known as CCN2 is a matricellular protein of the CCN family of extracellular matrix-associated heparin-binding proteins. CTGF plays an important role in promoting fibroblast proliferation, migration, adhesion, and extracellular matrix formation, and its overproduction plays a major role in pathways that lead to fibrosis (TGF-beta-dependent). This includes fibrosis of major organs, fibroproliferative diseases, and scarring. CTGF also plays an important role in the extracellular matrix remodeling that occurs in normal physiological processes such as embryogenesis, implantation, and wound healing.

Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) pipeline Target constitutes close to 11 molecules. Out of which approximately 10 molecules are developed by companies and remaining by the universities/institutes. The molecules developed by companies in Phase III, Phase II, Preclinical and Discovery stages are 2, 2, 5 and 1 respectively. Similarly, the universities portfolio in Preclinical stages comprises 1 molecules, respectively. Report covers products from therapy areas Gastrointestinal, Genetic Disorders, Oncology, Respiratory, Dermatology, Musculoskeletal Disorders, Cardiovascular, Genito Urinary System And Sex Hormones, Metabolic Disorders, Ophthalmology and Toxicology which include indications Liver Fibrosis, Idiopathic Pulmonary Fibrosis, Duchenne Muscular Dystrophy, Fibrosis,

Hypertrophic Scars, Non-Alcoholic Steatohepatitis (NASH), Acute Lung Injury, Acute Renal Failure (ARF) (Acute Kidney Injury), Chronic Kidney Disease (Chronic Renal Failure), Cirrhosis, Diabetic Nephropathy, Keloids, Liver Cancer, Myocardial Fibrosis, Non Alcoholic Fatty Liver Disease (NAFLD), Pancreatic Cancer, Pancreatic Ductal Adenocarcinoma, Radiation Toxicity (Radiation Sickness, Acute Radiation Syndrome), Scar and Wet (Neovascular / Exudative) Macular Degeneration.

The latest report *Connective Tissue Growth Factor - Pipeline Review, H2 2019*, outlays comprehensive information on the Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and molecule type. It also reviews key players involved in Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) targeted therapeutics development with respective active and dormant or discontinued projects.

The report is built using data and information sourced from proprietary databases, company/university websites, clinical trial registries, conferences, SEC filings, investor presentations and featured press releases from company/university sites and industry-specific third party sources.

## **SCOPE**

The report provides a snapshot of the global therapeutic landscape for Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF)

The report reviews Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) targeted therapeutics under development by companies and universities/research institutes based on information derived from company and industry-specific sources

The report covers pipeline products based on various stages of development ranging from pre-registration till discovery and undisclosed stages

The report features descriptive drug profiles for the pipeline products which includes, product description, descriptive MoA, R&D brief, licensing and collaboration details & other developmental activities

The report reviews key players involved in Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) targeted therapeutics and enlists all their major and minor projects

The report assesses Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) targeted therapeutics based on mechanism of action (MoA), route of administration (RoA) and molecule type

The report summarizes all the dormant and discontinued pipeline projects

The report reviews latest news and deals related to Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) targeted therapeutics

## **REASONS TO BUY**

Gain strategically significant competitor information, analysis, and insights to formulate effective R&D strategies

Identify emerging players with potentially strong product portfolio and create effective counter-strategies to gain competitive advantage

Identify and understand the targeted therapy areas and indications for Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF)

Identify the use of drugs for target identification and drug repurposing

Identify potential new clients or partners in the target demographic

Develop strategic initiatives by understanding the focus areas of leading companies

Plan mergers and acquisitions effectively by identifying key players and it's most promising pipeline therapeutics

Devise corrective measures for pipeline projects by understanding Connective Tissue Growth Factor (CCN Family Member 2 or Hypertrophic Chondrocyte Specific Protein 24 or Insulin Like Growth Factor Binding Protein 8 or IGFBP8 or CTGF) development landscape

Develop and design in-licensing and out-licensing strategies by identifying prospective partners with the most attractive projects to enhance and expand business potential and scope

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InnoBioscience LLC

Liminal BioSciences Inc

OliX Pharmaceuticals Inc

Phio Pharmaceuticals Corp

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Featured News & Press Releases

Nov 18, 2019: Liminal presents new preclinical data on PBI-4050 and its effect on Angio-Proliferative Pulmonary Arterial Hypertension

Nov 12, 2019: Liminal BioSciences presents new preclinical data on PBI-4050

Nov 11, 2019: Liminal Biosciences presents new preclinical data on PBI-4050 at ASN Kidney Week 2019

Oct 25, 2019: Liminal BioSciences announces upcoming presentation on its liver disease drug candidate PBI-4050 at The Liver Meeting 2019

Oct 24, 2019: Liminal BioSciences announces upcoming presentation on drug candidate PBI-4050 at ASN kidney week 2019

Oct 23, 2019: FibroGen announces first patient dosed in LAPIS, a phase 3 clinical trial of Pamrevlumab for the treatment of patients with locally advanced pancreatic cancer

Sep 30, 2019: FibroGen announces publication in the Lancet Respiratory Medicine of positive Pamrevlumab efficacy and safety data for the phase 2 study in Idiopathic Pulmonary Fibrosis

Jul 22, 2019: FibroGen announces first patient dosed in ZEPHYRUS, a phase 3 clinical trial of pamrevlumab for the treatment of patients with idiopathic pulmonary fibrosis

Jun 28, 2019: FibroGen to present interim phase 2 data on pamrevlumab in subjects with duchenne muscular dystrophy at the parent project muscular dystrophy 2019 annual conference

Jun 14, 2019: Prometic presents new data on PBI-4050 and its mechanism of action on kidney fibrosis at the 56th ERA/EDTA Congress

May 22, 2019: Prometic presents new PBI-4050 data on lung fibrosis at the 2019 ATS Conference

Apr 15, 2019: FibroGen receives Orphan Drug Designation from the U.S. FDA For Pamrevlumab for the treatment of Duchenne Muscular Dystrophy

Dec 05, 2018: Prometic to initiate PBI-4050 pivotal phase 3 clinical trial in Alstrom Syndrome

Sep 12, 2018: FibroGen receives Fast Track designation from the U.S. FDA for Pamrevlumab for the Treatment of idiopathic pulmonary fibrosis

Aug 10, 2018: Prometic announces the publication of PBI-4050's antifibrotic activity in

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### COMPANIES MENTIONED

BLR Bio LLC

FibroGen Inc

InnoBioscience LLC

Liminal BioSciences Inc

OliX Pharmaceuticals Inc

Phio Pharmaceuticals Corp

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