Idiopathic Pulmonary Fibrosis | NHLBI, NIH
Idiopathic pulmonary fibrosis (IPF) is a serious chronic lung disease that causes scarring in the tissue surrounding the air sacs in your lungs. Learn more about IPF risk factors, symptoms, diagnosis, treatment, and clinical trials.

Idiopathic pulmonary fibrosis - Wikipedia
Idiopathic pulmonary fibrosis (IPF) is a rare, progressive illness of the respiratory system, characterized by the thickening and stiffening of lung tissue, associated with the formation of scar tissue. It is a type of chronic scarring lung disease characterized by a progressive and irreversible decline in lung function. The tissue in the lungs becomes thick and stiff, which affects the tissue

Idiopathic pulmonary fibrosis | Genetic and Rare Diseases
Jul 30, 2014 · In the past, the goals of treating idiopathic pulmonary fibrosis (IPF) have been to prevent more lung scarring, relieve symptoms, maintain the ability to be active, and improve the quality of life. More recently, pirfenidone (an anti-fibrotic drug) has been approved to treat people with mild-to-moderate IPF in the European Union, Canada, and Asia. The U.S. Food and Drug ...

Idiopathic pulmonary fibrosis | Radiology Reference
Sep 24, 2021 · Idiopathic pulmonary fibrosis (IPF) is a clinical syndrome and considered the most common and the most lethal form of pulmonary fibrosis corresponding to the histologic and imaging pattern of usual interstitial pneumonia. It is more common in elderly men and diagnosed by: histological or imaging pattern of usual interstitial pneumonia (UIP) and

Idiopathic pulmonary fibrosis | Nature Reviews Disease Primers
Oct 20, 2017 · Idiopathic pulmonary fibrosis (IPF) is a chronic, progressive lung disease characterized by progressive lung scarring and the histological picture of usual interstitial pneumonia (UIP). It is

COVID-19 and pulmonary fibrosis: A potential role for lung
3D cell culturing platform allows study of idiopathic
Nov 17, 2021 · Idiopathic pulmonary fibrosis (IPF) is a deadly and rapidly progressing disease with no cure. The disease involves abnormal interactions between ...

Blade Therapeutics Initiates Additional Phase 1 Clinical
Oct 18, 2021 · Phase 1 clinical study to assess effect of cudetaxestat on pharmacokinetics of two approved therapies for idiopathic pulmonary fibrosis (IPF) Company on track to initiate planned phase 2 clinical

Microtissue system allows study of deadly lung disease
Nov 16, 2021 · Idiopathic pulmonary fibrosis (IPF) is a deadly and rapidly progressing disease with no cure. advertisement The disease involves abnormal interactions between lung ...

Vitamin D Helped Reduce Lung Fibrosis in IPF Mouse Study
Nov 02, 2021 · Vitamin D lessened lung scarring (fibrosis) in a mouse model of idiopathic pulmonary fibrosis (IPF) by suppressing the activity of the PSAT1 enzyme, and subsequently the mitogen-activated protein kinase (MAPK) pathway, a study shows. PSAT1 is an enzyme that links metabolic and amino acid production pathways. The MAPK pathway is involved in several cellular ...

12 Facts About Pulmonary Fibrosis Prognosis and Life
Aug 16, 2019 · Pulmonary fibrosis is a chronic and progressive lung disease where the air sacs in the lungs, called the alveoli, become scarred and stiff, making it difficult to breathe and get enough oxygen into the bloodstream. To address some misconceptions about the prognosis of pulmonary fibrosis and life expectancy of patients, we've put together some frequently asked questions ...

Interstitial Lung Disease
The American Thoracic Society improves global health by advancing research, patient care, and public health in pulmonary disease, critical illness, and sleep disorders. Founded in 1905 to combat TB, the ATS has grown to tackle asthma, COPD, lung cancer, sepsis, acute respiratory distress, and sleep apnea, among other diseases.

Pirfenidone - Wikipedia
Pirfenidone is a medication used for the treatment of idiopathic pulmonary fibrosis. It works by reducing lung fibrosis through downregulation of the production of growth factors and procollagens I and II. It was first approved in Japan for the treatment of patients with idiopathic pulmonary fibrosis after clinical trials, under the trade name of Pirespa by Shionogi, in 2008.

Pulmonary fibrosis and COVID-19: the potential role for
May 15, 2020 · The case for antifibrotic therapy in patients without IPF in the treatment of COVID-19. The rationale for using antifibrotic therapy is based on the spectrum of pulmonary fibrotic disease observed in COVID-19, ranging from fibrosis associated with organising pneumonia to severe acute lung injury, in which there is evolution to widespread fibrotic change.22 In fatal ...

Deleterious Role of Th9 Cells in Pulmonary Fibrosis
Nov 17, 2021 · Idiopathic pulmonary fibrosis (IPF) is a chronic, progressive, incurable, and fatal disease characterized by pulmonary fibrosis. Its main pathological feature is persistent alveolar epithelial cell injury, as well as abnormal proliferation and activation of fibroblasts. Excessive extracellular matrix deposition and structural destruction of lung tissue lead to fibrosis and ...

Home Page: Respiratory Medicine
Respiratory Medicine is a leading, International journal devoted to the rapid publication of the most up-to-date information in the field of respiratory medicine. It publishes a wide range of original articles and topical reviews dealing with all aspects of respiratory diseases and therapy.

Inhalable Treatment Enhances Regeneration in Lung Fibrosis
Oct 12, 2020 · Idiopathic pulmonary fibrosis is characterized by abnormal stem cells (green) present near the scar-forming fibroblasts (red). Image by Monica Cassandras In response to certain types of injury and inflammation, many organs produce tough scar tissue, a process called fibrosis, which can
ultimately lead to organ failure or even death.

**Interstitial Lung Diseases | NHLBI, NIH**
The Division of Lung Diseases held a workshop in 2015 to discuss the intersection of aging and lung biology, including why cellular aging is linked with idiopathic pulmonary fibrosis (IPF). Participants identified research directions to advance our understanding and management of aging-related lung diseases, such as developing new animal models.

**Honeycomb Lung Pathology: Definition, Epidemiology, Etiology**

**Deleterious Role of Th9 Cells in Pulmonary Fibrosis**
Nov 17, 2021 · Idiopathic pulmonary fibrosis (IPF) is a progressive and fatal lung disease of unknown etiology. Immune disorders play an important role in IPF pathogenesis. Here, we show that Th9 cells differentiate and activate in the lung tissue of patients with IPF and bleomycin (BLM)-induced lung fibrosis mice. Moreover, we found that Th9 cells promote pulmonary fibrosis in ...

**Treatment of fibrotic interstitial lung disease: current**
Sep 06, 2021 · Fibrotic interstitial lung disease (ILD) represents a large group of pulmonary disorders that are often progressive and associated with high morbidity and early mortality. Important advancements in the past 10 years have enabled a better understanding, characterisation, and treatment of these diseases. This Series paper summarises the current ...

**American Journal of Respiratory Cell and Molecular Biology**
Jul 26, 2021 · Noncanonical Wnt Signaling Promotes Myofibroblast Differentiation in Pulmonary Fibrosis This study showed significantly higher levels of Wnt11 expression in cells from both patients with idiopathic pulmonary fibrosis and bleomycin-treated mice, as well as in TGFβ-treated mouse lung fibroblasts.

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**Alveolar Type II Cells - an overview | ScienceDirect Topics**
Function and Dysfunction in Idiopathic Pulmonary Fibrosis. ATII cell dysfunction has emerged as a key component in the pathophysiology of idiopathic pulmonary fibrosis (IPF) (Selman and Pardo, 2020; Moimas et al., 2019). Robust clinical and experimental evidences showed pulmonary fibrosis as an epithelial-driven pathology caused by senescent

**Home Page: The Annals of Thoracic Surgery**
Nov 18, 2021 · The mission of The Annals of Thoracic Surgery is to promote scholarship in cardiothoracic surgery patient care, clinical practice, research, education, and policy. As the official journal of two of the largest American associations in its specialty, this leading monthly enjoys outstanding editorial leadership and maintains rigorous selection standards.

**Blade Therapeutics | Revolutionizing the Treatment of**
Blade Therapeutics Initiates Additional Phase 1 Clinical Study of Cudetaxestat, a Non-Competitive Autotaxin Inhibitor in Clinical Development for Idiopathic Pulmonary Fibrosis Event There are no events currently scheduled.

**Lungs: Anatomy, Function, and Treatment - Verywell Health**
Feb 06, 2021 · Lung tissue diseases like pulmonary fibrosis and sarcoidosis. There are 30,000 to 40,000 new cases of pulmonary fibrosis diagnosed in the U.S. each year, affecting 100,000 people in total. Sarcoidosis is considered a rare disease, affecting fewer than 200,000 in ...

**Home Page: International Journal of Cardiology**
International Journal of Cardiology is a transformative journal. Learn more about APCs and our commitment to OA. The International Journal of Cardiology is devoted to cardiology in the broadest sense. Both basic research and clinical papers can be submitted. The journal serves the interest of both practicing clinicians and researchers.
idiopathic pulmonary fibrosis lung biology
Insilico Medicine announced today that they have started the first human trial of ISM001-055 their AI-designed drug candidate for pulmonary fibrosis. This is a very significant milestone in the history of Idiopathic pulmonary fibrosis (IPF) is a deadly and rapidly progressing disease with no cure. The disease involves abnormal interactions between lung cells, including fibroblasts, and their environment, which leads to the formation of scar tissue in the lungs.

3d cell culturing platform allows study of idiopathic pulmonary fibrosis
In a parallel analysis, 95% of the differentially expressed genes between IPF patients with good and poor prognosis identified by SAM were attributed to these three pulmonary function associated a functional genomic model for predicting prognosis in idiopathic pulmonary fibrosis
Thus, the biology of fibrogenesis balance and pH is disrupted. Pulmonary fibrosis is characterized by parenchymal honeycombing, reduced lung compliance, and restrictive lung function (Figure 2).

fibrosis — a common pathway to organ injury and failure

microtissue system allows study of deadly lung disease
Scientists have compiled the most comprehensive road map of the protein composition of human lungs, providing a clearer picture of the healthy development of this essential organ that made terrestrial lung transplants, for cystic fibrosis in children, for pulmonary fibrosis, as well as for idiopathic fibrosis.

research delivers road map of lung development
"This study will be a resource in understanding developmental biology for lung transplants, for cystic fibrosis in children, for pulmonary fibrosis, as well as for idiopathic fibrosis."

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Insilico Medicine, an end-to-end artificial intelligence (AI)-driven drug discovery company, today announced that the first healthy volunteer has been dosed in a first-in-human microdose trial of insilico medicine initiates first-in-human study of ism001-055, a novel drug discovered using insilico's proprietary end-to-end artificial intell
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Department of Veterinary and Animal Sciences, University of Massachusetts Amherst, Amherst, MA 01003, USA Molecular and Cellular Biology Graduate Program, University of Massachusetts Amherst, Amherst,

alveolar macrophages: novel therapeutic targets for respiratory diseases
LYT-100 is PureTech’s wholly-owned therapeutic candidate that is being advanced for the potential treatment of conditions involving inflammation and fibrosis and disorders of lymphatic flow. It is

puretech announces publication of phase 1 results for lyt-100 in the journal clinical pharmacology in drug development and provides timing updates
expected to enter planned phase 2 clinical study in idiopathic pulmonary fibrosis in 1H-2022 BLD-2184, a CNS-penetrant calpain inhibitor for genetic orphan neurodegenerative conditions

biotech acquisition company and blade therapeutics announce definitive merger agreement
and idiopathic pulmonary fibrosis, the prototypical fibrotic lung disease. We estimate there are over 500,000 patients currently living with ILD in the United States and over 3 million patients

atyr pharma, inc. (life) ceo sanjay shukla on q3 2021 results - earnings call transcript
Third Quarter and Recent Highlights Positive interim results from Phase 2a PET imaging clinical trial show αββ6 target engagement up to 98% in the lungs of patients with idiopathic pulmonary fibrosis

pliant therapeutics provides corporate update and reports third quarter 2021 financial results
WASHINGTON, November 16, 2021 -- Idiopathic pulmonary fibrosis (IPF) is a deadly and rapidly progressing disease with no cure. The disease involves abnormal interactions between lung cells

microtissue system allows study of deadly lung disease
After checking to ensure that the proportional hazard assumption was met with each Cox model, subdistributional mortality hazards were determined for covariates by treating lung transplantation as

a functional genomic model for predicting prognosis in idiopathic pulmonary fibrosis
reversible inhibitor of autotaxin that is planned to enter a phase 2 clinical study in patients with idiopathic pulmonary fibrosis in the first half of 2022. Cudetaxestat has demonstrated direct

biotech acquisition company and blade therapeutics announce definitive merger agreement
There are substantial shortcomings with the current standards of care for patients living with fibrotic lung disease for the treatment of idiopathic pulmonary fibrosis (IPF).

puretech announces publication of phase 1 results for lyt-100 in the journal clinical pharmacology in drug development and provides timing updates
PureTech Announces Publication of Phase 1 Results for LYT-100 in the Journal Clinical Pharmacology in Drug Development and Provides Timing Updates LYT-100 well-tolerated at all doses studied with a

ptc publishes previous lyt-100 mad study results
"We discovered a novel communication route between the SARS-CoV-2 virus and human lung cells," Dr. Mazumder said. "This work showed how the COVID-19 virus uses a specific signal within its own RNA

novel communication route discovered between the sars-cov-2 virus and human lung cells
Increased autotaxin levels and activity are associated with liver, lung, kidney, and skin fibrosis. In addition, autotaxin levels correlate with fibrosis severity in various liver diseases (e.g.

blade therapeutics initiates additional phase 1 clinical study of
cudefestat, a non-competitive autotaxin inhibitor in clinical development for idiopathic pulmonary fibrosis

The company's intellectual property portfolio includes a recently secured patent on live biotherapeutics for the treatment of lung diseases (BPD), and Idiopathic Pulmonary Fibrosis (IPF).

resbiotic spins out pharmaceutical subsidiary alveolus bio, raises $4.5m seed funding and launches first consumer health product

The company's tests in lung cancer, prostate cancer, breast cancer, thyroid cancer, bladder cancer, colon cancer, and idiopathic pulmonary fibrosis are available to patients and its renal cancer and