



Training program engineers

MACbioIDI

ANNEX.

Chest Imaging Platform

Chest Imaging Platform

The Chest Imaging Platform (CIP) offers both a software library and a clinical-oriented tool that can enable the development and translation of known and novel quantitative phenotypes in lung diseases, including COPD, ILD and ALI.

COPD Chronic Obstructive Pulmonary Disease is a common lung disease that causes difficulty in breathing.

ILD. Interstitial lung disease is a common term used to designate more than 100 chronic diseases of the lungs, diffuse inflammatory disorders of the lower airways caused by inflammation and fibrosis (scarring) of the walls of the alveoli and thickening of the interstitium that it surrounds

ALI. Acute Lung Injury. Acute lung injury is a severe respiratory failure, due to non-cardiogenic pulmonary edema. There are two pathogenic types: pulmonary or primary ARDS, when it occurs due to direct alveolar aggression, and extrapulmonary or secondary ARDS, when there is indirect damage to the lung as a complication of a systemic disease: sepsis, severe trauma with shock and multiple transfusions or acute pancreatitis, among others.

Chest Imaging Platform. (https://mt4sd.ulpgc.es/slicer-int/index.php/Chest_Imaging_Platform/en)

CIP fundamentals

Scope.

CIP Library.

Slicer CIP.

CIP Library: Command Line Interfaces.

CIP Library: cip_python.

Cloud testing infrastructure. Testing process.

Best practices.

Download and install.

Study case.

