

The BileBank Project 1.0 (2021) - The BileBank Project 2.0 (2022): Bile as a liquid matrix for the management of hepatobiliarypancreatic diseases

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Founder partners



Welcome to The BileBank project

<https://bilebank.org/>

The aim of The BileBank project is to establish a common, functional biobank of human bile samples available to be used in liquid biopsy strategies and personalized medicine to promote the research on hepatobiliarypancreatic diseases.

What the bile is? Bile is a digestive fluid produced by the liver and stored in the gallbladder. It is released into the duodenum (small bowel) through the biliary tract together with the pancreatic juice during meals.

Bile functions:

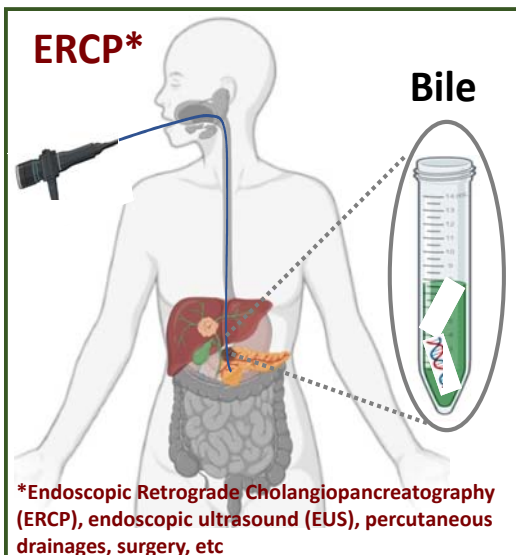
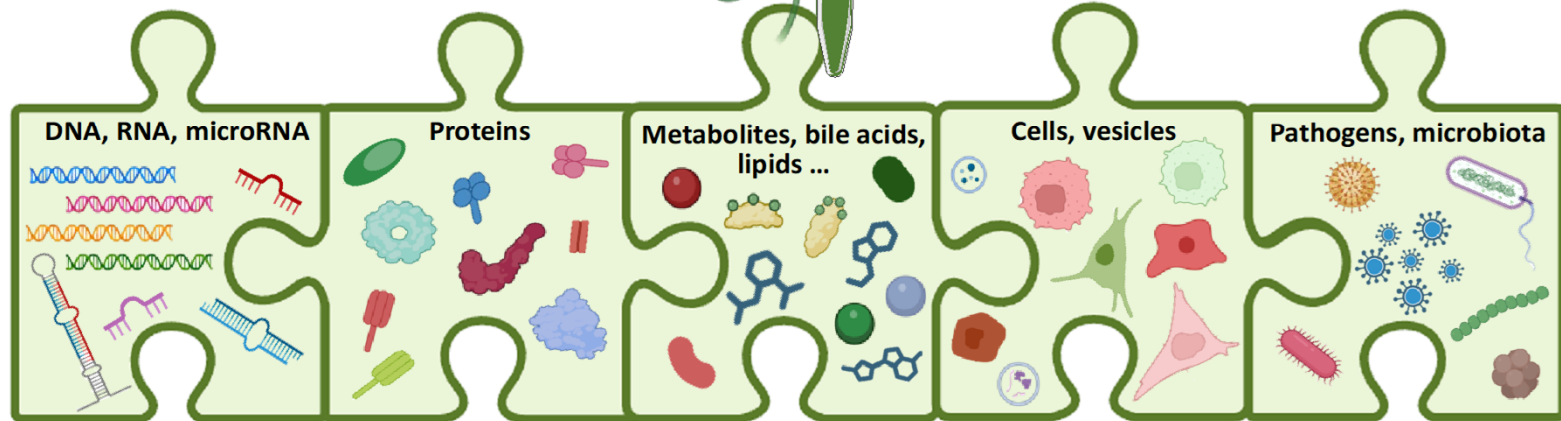
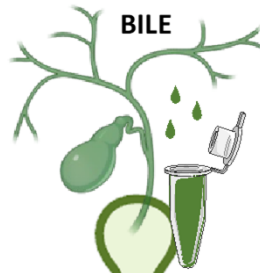
- 1) It helps break down fats into forms that can be absorbed
- 2) it helps remove toxins and metabolic waste
- 3) it modulates systemic metabolism through bile acids
- 4) it regulates the homeostasis of gut microbiota

Applications of bile:

- Biliary and liver diseases
- Early biliopancreatic cancer diagnosis
- Diagnosis of indeterminate biliary strictures
- Differential diagnosis of patients with jaundice
- Pharmacokinetic analysis and biliary excretion studies
- Bile culture and targeted antibiotic testing
- Regenerative medicine
- Early detection of post-liver resection and transplantation failure

Why bile should be collected?

Bile composition can change in different pathological conditions; therefore, the identification of these changes can be harnessed into good diagnostic tools, can inform about pathological processes or can even help in directing treatments.



Founder partners:
CIMA-Universidad de Navarra (Spain)
Hospital Universitario de Navarra (Spain)
Hospital Universitario de Galdakao (Spain)
Centre Hospitalier Bordeaux (France)

540 bile samples



Other partners:
Medical University of Warsaw (Poland)
Saarland University Medical Center, Homburg (Germany)
University Hospital RWTH Aachen (Germany)
University of Edinburgh (UK)
IRCCS-San Raffaele, Milan (Italy)
Hospital Clinic Barcelona (Spain)
Hospital Gregorio Marañón, Madrid (Spain)