

CA18122 EUROPEAN CHOLANGIOCARCINOMA NETWORK (EURO-CHOLANGIO-NET)

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EURO-CHOLANGIO-NET aims to create a co-operative, interdisciplinary European network encompassing clinical investigators, basic scientists, charities and SMEs, in order to:

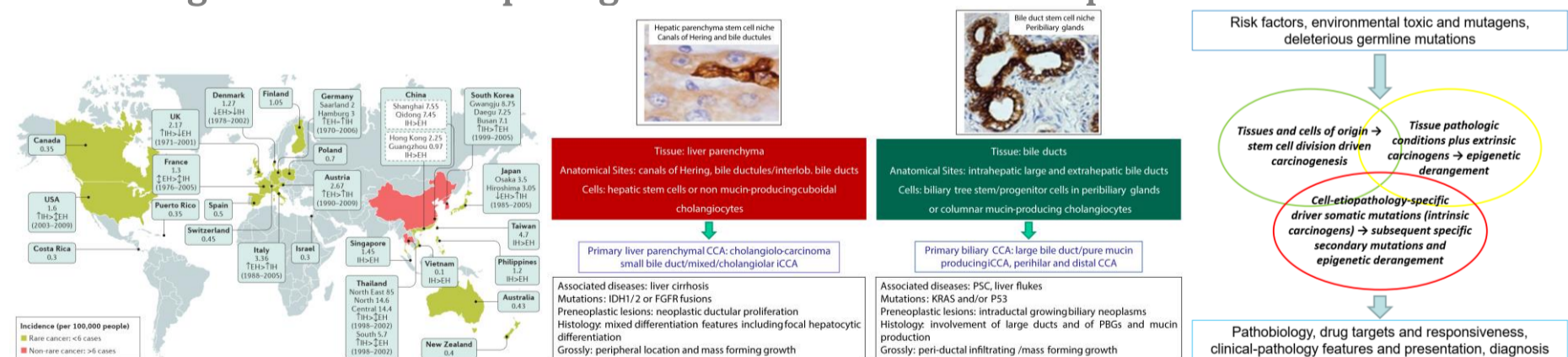
- 1) Improve translation generating consensus on appropriate experimental models of CCA: systematically revise the histomorphology, pathological background, cells of origin, of the distinct models of CCA with respect to human subtype counterparts.
- 2) Dissect the inter and intra tumor heterogeneity in order to define specific features usable for early diagnostic purposes: to set up interconnected digitalized European registries for correlation studies on i) epidemiology, risk factors and clinical presentation, ii) histo-morphology, iii) radiologic depicts of tumour and pre-neoplastic tissues.
- 3) Fasten, rationalize and make the cheapest possible the ways to target therapies in CCA: to define the driver mutations, epigenetic alterations, transcriptome of each CCA histomorphological subtype.

Key expected scientific achievements

- 1) Consensus article establishing criteria for identifying the correct preclinical models of each subtype of CCA.
- 2) Scientific publications on the definition of histomorphological features and criteria for diagnosis and classification of cholangiocarcinoma subtypes.
- 3) Scientific publications on liquid biopsy and molecular profiling (single-nucleotide variants, FGFR2 fusions, copy number alteration, DNA methylation profiling) of different clinical, etiological and histomorphological CCA subtypes.

Key outputs, new ideas, projects

- 1) A Pan-European standardized biobank of different sample types from clinical, etiological and histomorphological well characterized CCA patients.



CCA heterogeneity and rarity has limited the discovery of biomarkers and novel therapeutic options, hampering the development of tools for early diagnosis and effective treatment. *EURO-CHOLANGIO-NET* contributes to close the current gaps in knowledge and applications in CCA because overcomes the limitation in the number of cases generating a critical mass, and because develops and implements a pan-European multidisciplinary collaboration which is necessary to dissect the multilevel heterogeneity of CCA.