

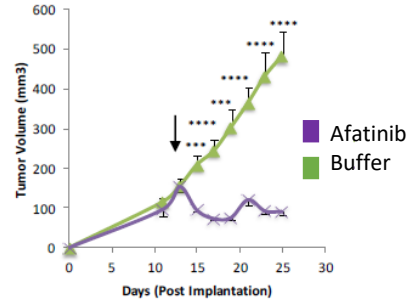
# AFAN - Repurposing of Afatinib for HN cancer treatment in FA patients

## NEED

Head and neck squamous cell carcinoma (HNSCC) is the main cause of death in adulthood for patients with Fanconi's Anemia (FA), as they cannot be treated with chemotherapy. An effective, non-toxic therapeutic alternative is needed.

## SOLUTION

We propose a therapeutic alternative for HNSCC in FA patients. Researchers from UAB, IR-Sant Pau and CIBER-ER have developed a non-toxic treatment based on a new therapeutic use for afatinib, which is currently used to treat certain types of lung cancer.



## TECHNOLOGY



### PCT + extension

- PCT/EP2023/081937. European Patent granted. In examination in USA.
- Orphan Drug Designation granted by EMA 12 December 2018.

## Preclinical validation

Afatinib showed cancer-specific lethality or cell growth inhibition in FA HNSCC cell lines and inhibited tumor growth in xenograft experiments in immunodeficient mice using two Fanconi anemia patient-derived. In vivo toxicity studies in Fanca-deficient mice showed that administration of Afatinib well-tolerated, displayed manageable side effects, no toxicity to bone marrow progenitors, and did not alter any hematologic parameters. Phase I/IIb clinical trials will begin in 2024.

## VALUE PROPOSITION



- **Comparable activity without toxicity:** Comparable or improved activity vs. standard chemotherapeutic drugs without toxicity



- **Limited competition:** as other therapies currently approved are extremely toxic to FA patients.



- **Repurposed drug:** with a development timeline substantially shortened.

## TEAM

**Dr. Jordi Surrallés**  
Principal Investigator

**Dr. Georgia Anguera & Dr. Oscar Gallego**  
Clinical team

**Jana Iscla & Sandra Ramos**  
Innovation Managers

**Boehringer Ingelheim**  
Partner



## MARKET

**1 in 136,000** Incidence rate of FA, a rare disease

**550.000** Incidence of HNSCC

**500-to 700-fold higher** Incidence of HNSCC in FA patients

**FANCONI™ CANCER FOUNDATION** Key Stakeholder

## COMPETITORS



This is the first clinical trial for this condition in the history of medicine



Other clinical trials in the future will most probably also focus on repurposing

## ROADMAP

2024



Phase I/IIb clinical trials



License

2025



Licensing Agreement

2026



New Drug Application

We are looking for a company interested in licensing and taking this asset to the market.