



# Project CAPTURE: “The Virtual Oncological Patienship”

- **Predicting tumor progression and response to novel therapies** promises to be a powerful tool in support of **personalized therapies** for cancer patients.
- CAPTURE combines diagnostic imaging with assay data in order to develop predictive mathematical modeling of histological dynamics in avascular tumors: **an in-silico platform for clinical and pharmaceutical cancer research and therapy**. Clinicians will be supported in the process of optimizing cancer treatment by *ad-hoc* in-silico trials (**Virtual Reality**).
- Working with Biovista Inc., CAPTURE allows for **virtual drug repositioning/development**, for fully sustainable scenarios that will be implemented in in-silico replicas of the patients. **Cheaper, novel and safer therapies will be virtually tried**, and traditional market partitions will be more easily removed, so as to help pharma add value to their products.
- CAPTURE means **handy virtualized prognoses in oncology**, and low patient replication and software maintenance efforts. CAPTURE gives immersive experience to clinical doctors and in pharmaceutical trials for drug repositioning and novel therapy development (**Augmented Reality**).
- For HepatoCellular Carcinoma, an app is already available with a total of 10 drugs (6 existing, and 4 potential repositioned ones) for **virtual therapy cross-testing**.