

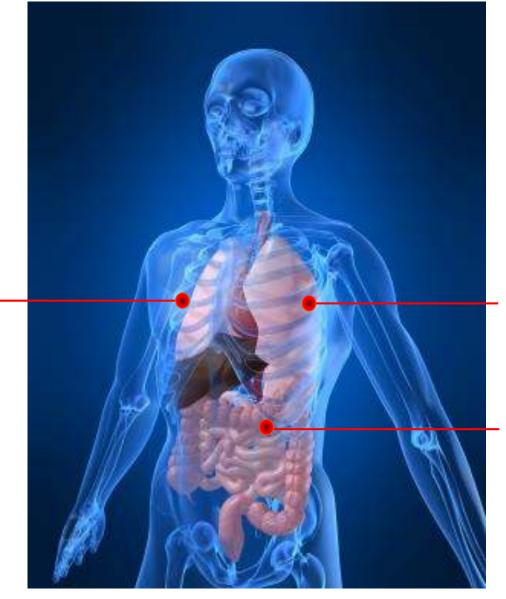






www.oncotheis.com

Cibles thérapeutiques



Cancer du Poumon

Cancer du Colon

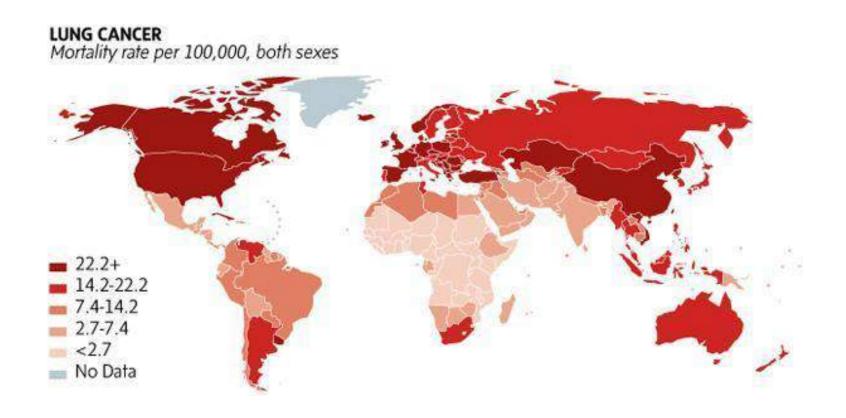


Cancer de

la Plèvre

Le Cancer du Poumon

La principale cause de décès par cancer





Traitements

1ere ligne

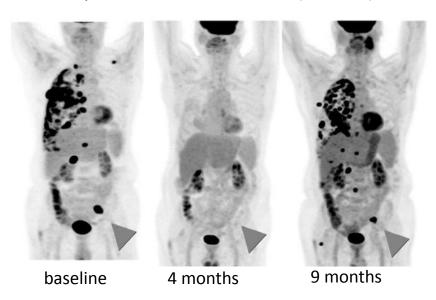
| Chimiothérapies | \Diamond |
|-----------------|-------------|
| ► cisplatin | |
| ► pemetrexed | DNA |
| ► paclitaxel | replication |
| ► docetaxel | |

2eme ligne

| Thérapies ciblées | | • |
|--|------------------|---------------------------|
| ▶ erlotinib▶ gefitinib▶ afatinib | EGFR-TK | 12-14 7.7-12.9 13.6 |
| ▶ crizotinib▶ ceritinib | ALK, ROS1 MET | 9.7 7 |
| ▶ ramicirumab▶ bevacizumab | VEGFR | 7.8 6.2 |

Constant et al. InTech 2015; 83-103.

pemetrexed + bevacizumab (PET scan)



Problème de recurrence



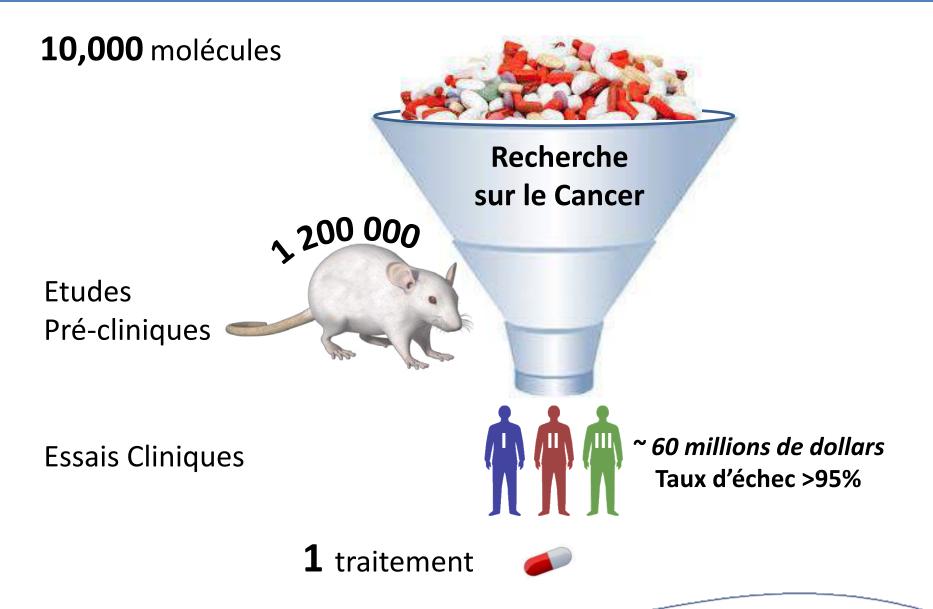
Le Cancer du Poumon



Plus d'un million de morts!

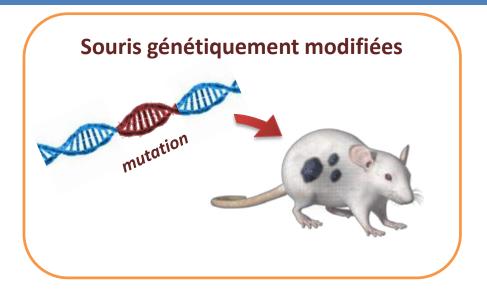


Le Développement d'un Médicament

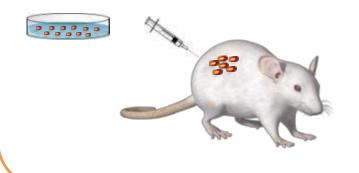




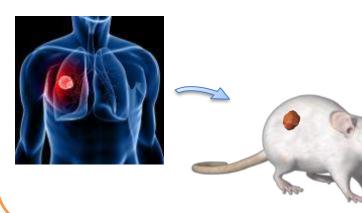
Les modèles animaux





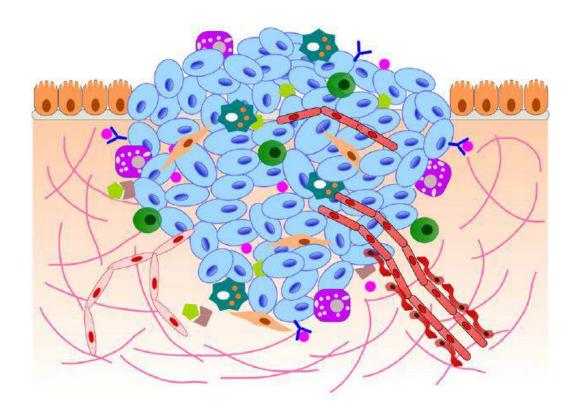


Xénogreffe de tumeurs de patients



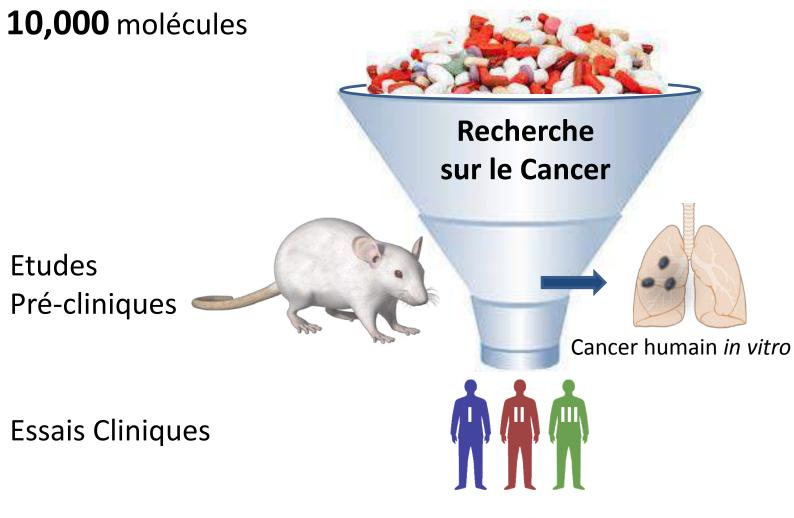


Complexité du microenvironnement





Le Développement d'un Médicament



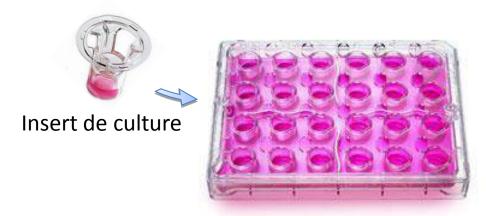






Un nouveau modèle de cancer du poumon

- > 100% humain
- > in vitro
- > 3-Dimensionnel
- > facile à utiliser



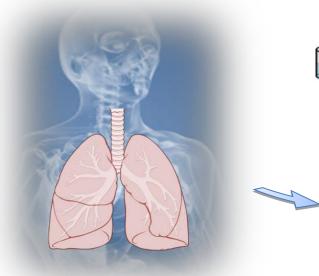
Plaque de culture avec milieu nutritif stocké @37°C



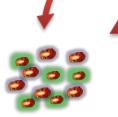
OncoCilAir™

cellules bronchiques humaines

cellules tumorales humaines



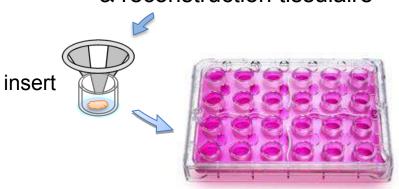
lignée tumorale



tumeur primaire



selection, amplification & reconstruction tissulaire



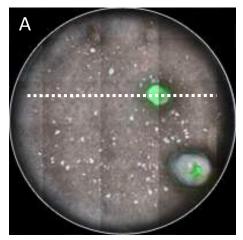
OncoCilAirTM

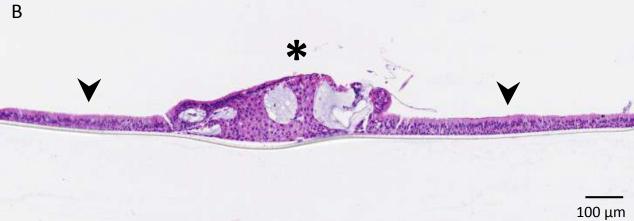
modèle *in vitro* de cancer du poumon



OncoCilAir™: histologie

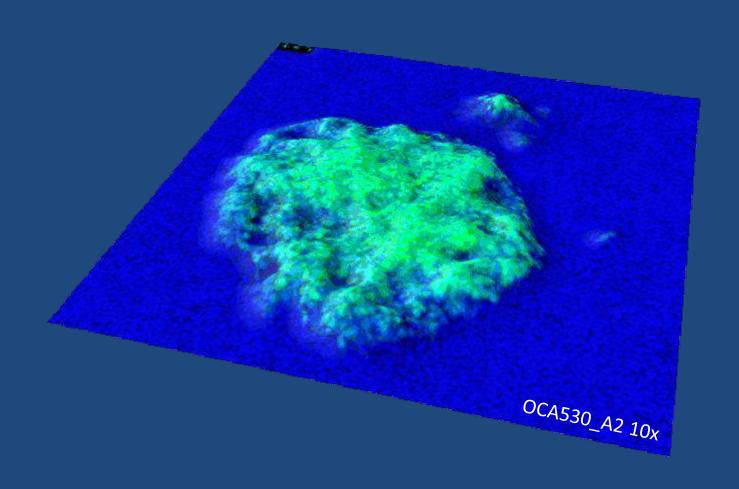








OncoCilAirVue en microscopie confocale





Utube: keyword = oncotheis

https://www.youtube.com/watch?v=X8Eb4HDHEJk

OncoCilAir

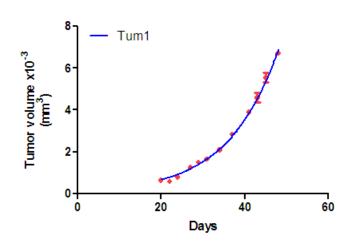
OCA_454

wells A1

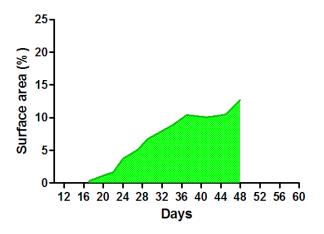
01/2014 OncoTheis

OncoCilAir™: courbe de croissance tumorale

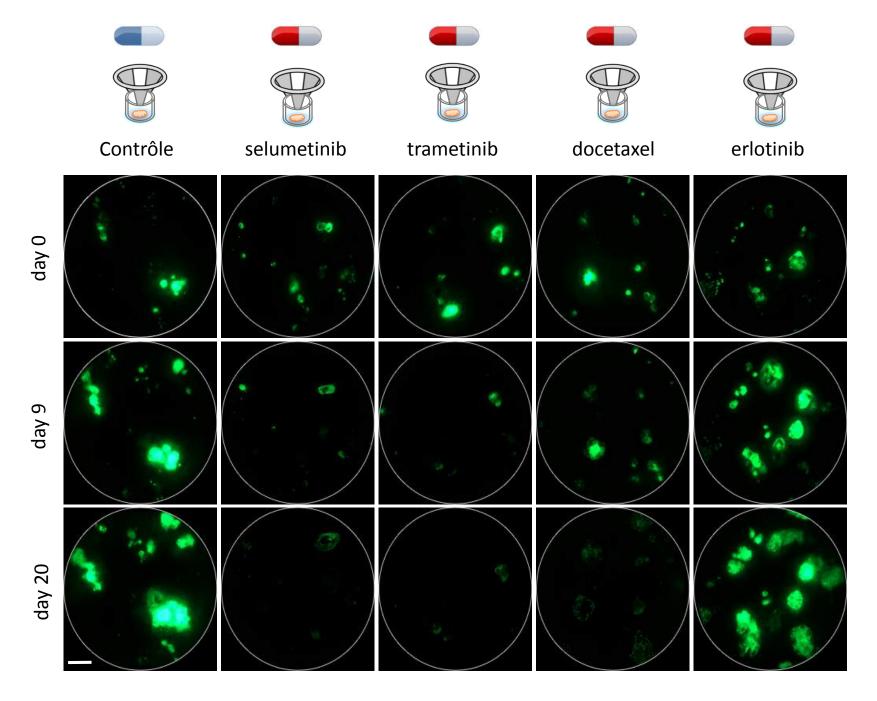
Tumor Growth



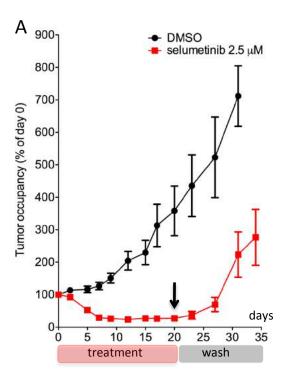
Percent Tumor Occupancy

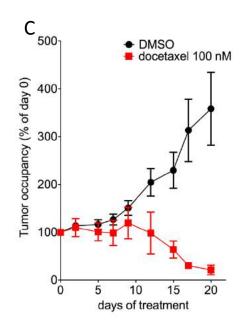


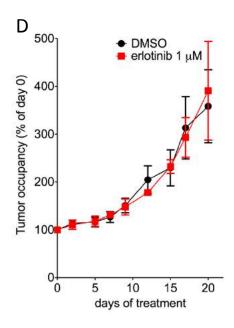




Evaluation de l'efficacité d'un traitement







| | [in vitro] | [plasma _{max}] |
|-------------|------------|--------------------------|
| selumetinib | 2.5 μΜ | 1.22 μΜ |
| trametinib | 50 nM | 38 nM |

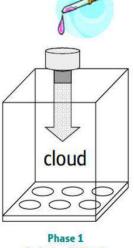
Mas C et al. J Biotechnol 205:111-9 (2015)



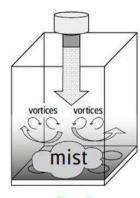
Applications: Aerosol thérapie







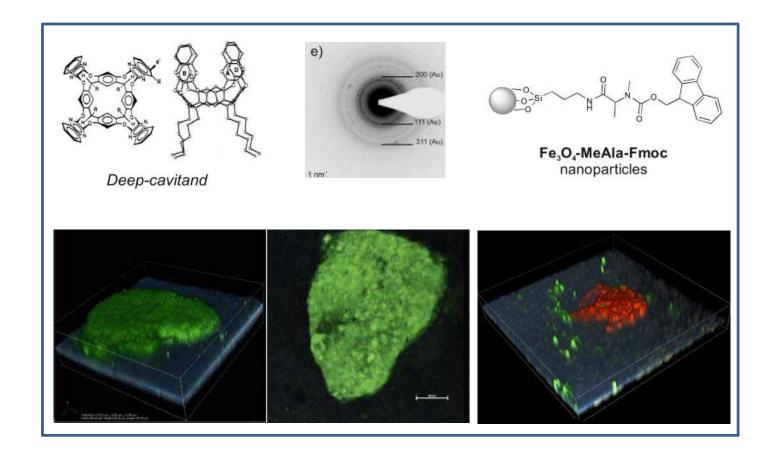




Phase 2 Homogeneous Mixing

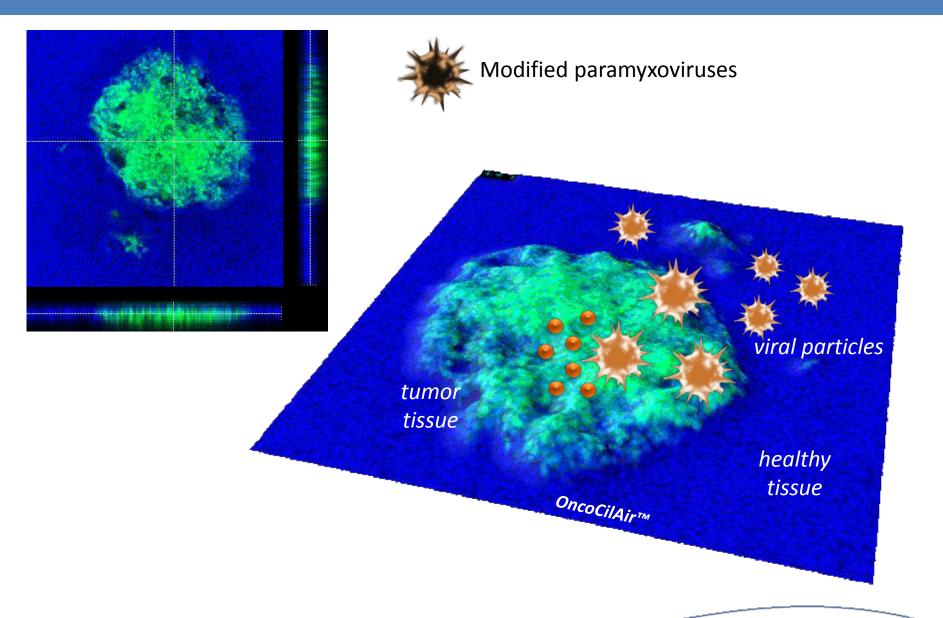


Applications: Test de nano-particules



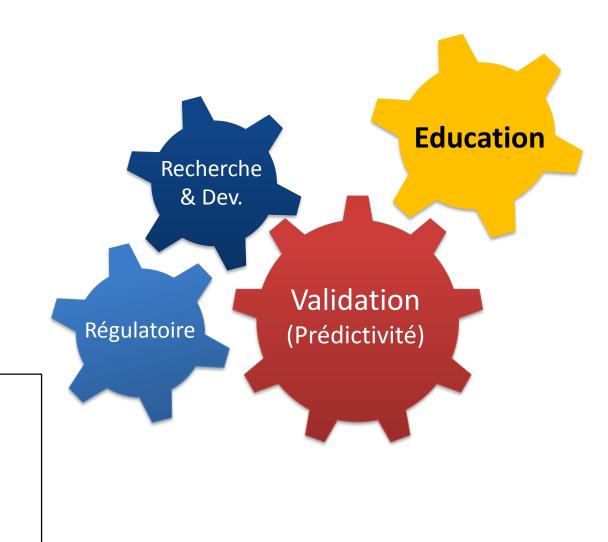


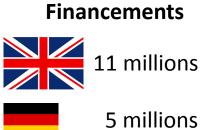
Applications: Thérapie Oncolytique

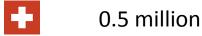




Le développement des méthodes alternatives













www.oncotheis.com











