

Molecular profiling: Challenges and perspectives

Introduction

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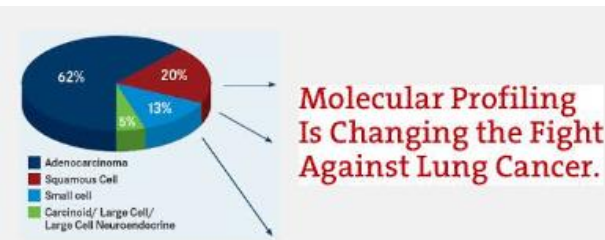


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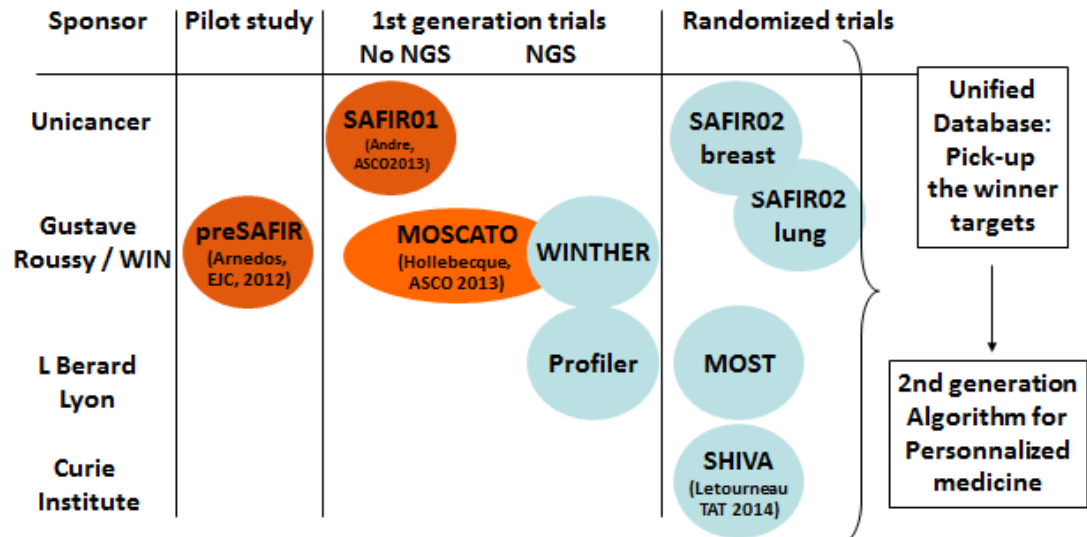


- Molecular profiling is increasingly part of patient's care
 - Either by analysis of their diagnostic sample
 - or by their participation into prospective molecular triage trials
- Clear enthusiasm of patients (recruitment curves)
- Great heterogeneity of practices accross the world
 - different models in different countries
 - different funding possibilities
- Multiple challenges remain
 - optimal setting for analysis
 - optimal technology
 - patient selection
 - access to therapies (combinations)

Molecular profiling a growing reality: academic and privately-driven



Ongoing precision medicine programs in France: 9 trials (high throughput genomics)

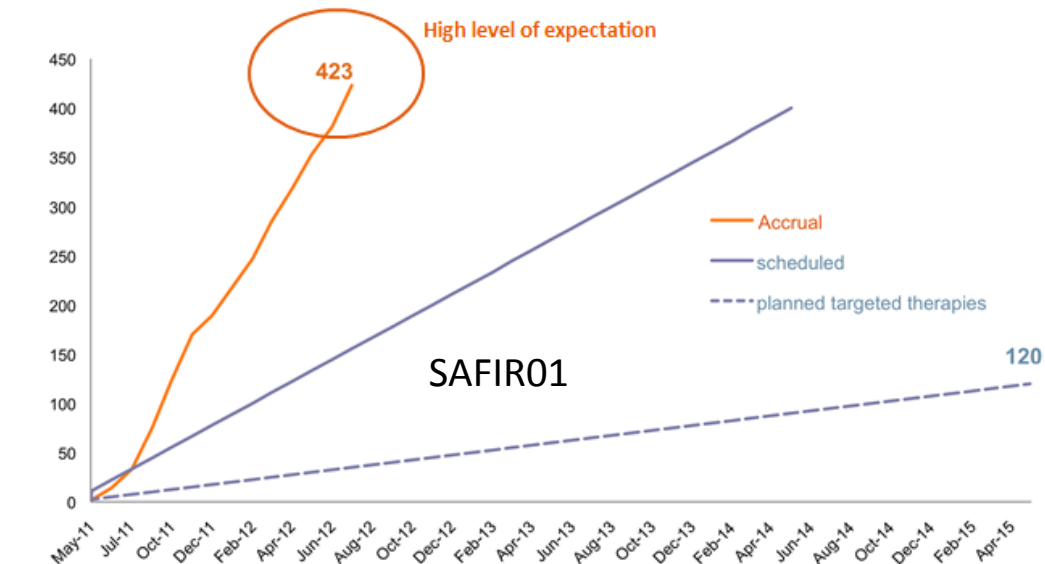
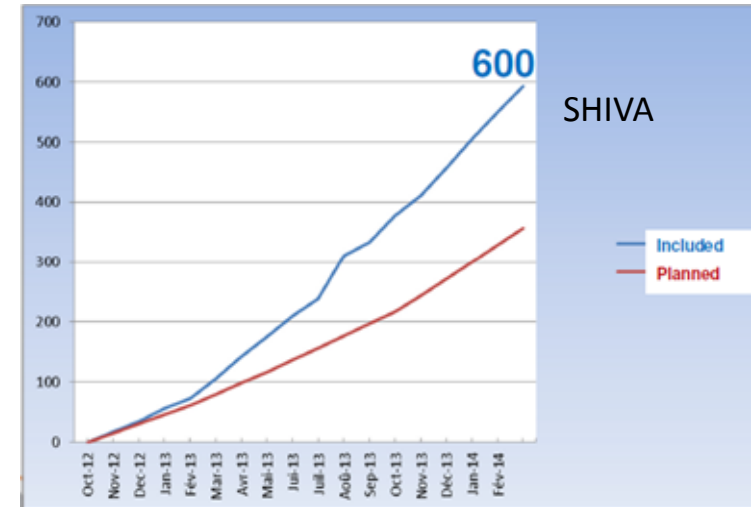
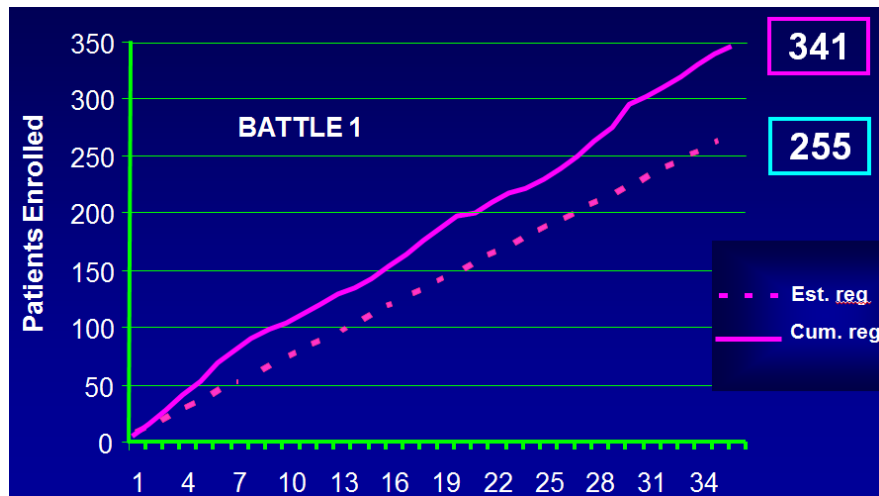


Overall : >3 000 planned patients (all tumor types), >1 000 already included

SPECTA **EORTC**



Clear enthusiasm of patients and physicians



Kim E et al, Cancer Discovery 2011
 Andre F et al, Lancet Oncol 2014
 Le Tourneau C et al, BJC 2014

Various models

NO ORGANIZED FRAMEWORK

STRUCTURED FRAMEWORK

REGIONAL

NATIONAL

Spain-Germany

France

Various read outs

Single
gene

Panel of
genes

Holistic

The 28 regional platforms INCA-funded



No cost for patients

Large numbers/year

- 5000 melanoma
- 20 000 colon
- 25 000 lung...

Strong impact on
clinical trials

Optimal setting of molecular profiling ?

