Health

Seguimiento remoto de pacientes crónicos

Seguimiento remoto de rehabilitación domiciliaria

Teleasistencia móvil: Localización y alerta

SARA

rehabitic

mifamilia

immunofluorescence, visual aid for the IFA serological diagnosis of infectious diseases

vircell
PTS Granada

Source: Adapted from http://techcitynews.com/2016/04/26/how-mit-is-supporting-innovation-in-britain/
Granada

- 4% national scientific production
- 2.5% country GDP
- 1.9% population
- 1.4% GDP
Shortage of Translational and Clinical Research

25.290 articles (in 4 yrs)

101 articles with possible human clinical applications

10 yrs later

5 were in licensed clinical use

1, and only 1, had a major impact on current medical practice

“I think you should be more explicit here in step two.”
Developing medicines is a long, risky and expensive endeavour.
The bottlenecks: focus on pre-competitive research
Lost in Translation
Translational Paradigm

Bench to Bedside

Basic

Disease Focused Investigation
Pathogenesis and Pathophysiology
Targets

Basic

Use of Pre-Clinical Model and Tool Compounds
Credential Targets

Translation

Identify and Validate Biomarkers
Generate Hypothesis
Diagnosis Treatment Prevention

Clinical

Does Agent/Test Validate the Target
Biological Endpoints

Bedside to Bench
What does industry want from Academia?

“Our main need is to identify and validate relevant biomarkers to help us to sensibly decide if we should embark on big Phase III clinical trials, which cost millions of euros to run”

Steve Averbuch, MD, Executive Director, Bristol-Myers Squibb
Gregory Burke, MD, PhD, Senior VP, Novartis
Renzo Canetta, MD, VP, Global Development, Bristol Myers
William J. Slichenmyer, MD, VP Therapeutic Development, Pfizer
Gerald Kenneaey MD Product Global Director Astra Zeneca
Homer Pearce, PhD, Global Director Lilly
Industry-Academia Comparison: Translational Capabilities

Academia
- Basic Research
- Preclinical Research
- Patient Care

Industry
- Basic Research
- Pharmaceutical Development
- MKT & sales
How to build New Pathways from Lab to Market:

1. acquire, process, store, and retrieve human specimens
2. develop and conduct biologic surrogate endpoint analyses
3. develop and conduct novel imaging endpoints
4. write and manage INDs
5. write and manage complex translational clinical protocols
6. acquire, manage, and interpret complex clinical and biologic data
Thank you!

Any question?

Inunez@ptsgranada.com