

Perspectiva global del proceso

José Luis Díaz

Cada una de las siguientes presentaciones representa un criterio personal y proporciona un punto de partida para el pensamiento y la discusión sobre las necesidades y oportunidades en educación y formación para una I+D biofarmacéutica más eficaz. No obstante, el objetivo de mi disertación está en camino de lo que podría ser un prólogo o una introducción, para dar una visión del proceso biofarmacéutico general con la finalidad de ayudar a poner estas necesidades y oportunidades en contexto.

La aproximación a la I+D a través de la industria farmacéutica es suficientemente uniforme para permitir la identificación de una serie de fases principales en el descubrimiento y el desarrollo de fármacos. Similarmente, hay una serie de actividades estándar asociadas con cada una de estas fases; es decir, hay un proceso global que puede ser definido.

Aunque para algunos la idea de un proceso puede parecer extraña y restrictiva cuando se aplica a la investigación científica, dentro de la industria farmacéutica se ha demostrado inapreciable en la aceleración del descubrimiento de fármacos. Mediante la adopción de una aproximación sistemática, las empresas han sido más capaces de asegurar que los pasos decisivos en los caminos críticos de la I+D sean adecuadamente financiados.

Mientras que esta aproximación sistemática no es necesariamente aplicable a un entorno académico, es importante entender el proceso global en la I+D biofarmacéutica. Esto facilita la identificación de las necesidades y oportunidades surgidas, con la finalidad de ser capaces de adaptar la educación y la formación adecuadamente.

A global perspective of the process

José Luis Díaz

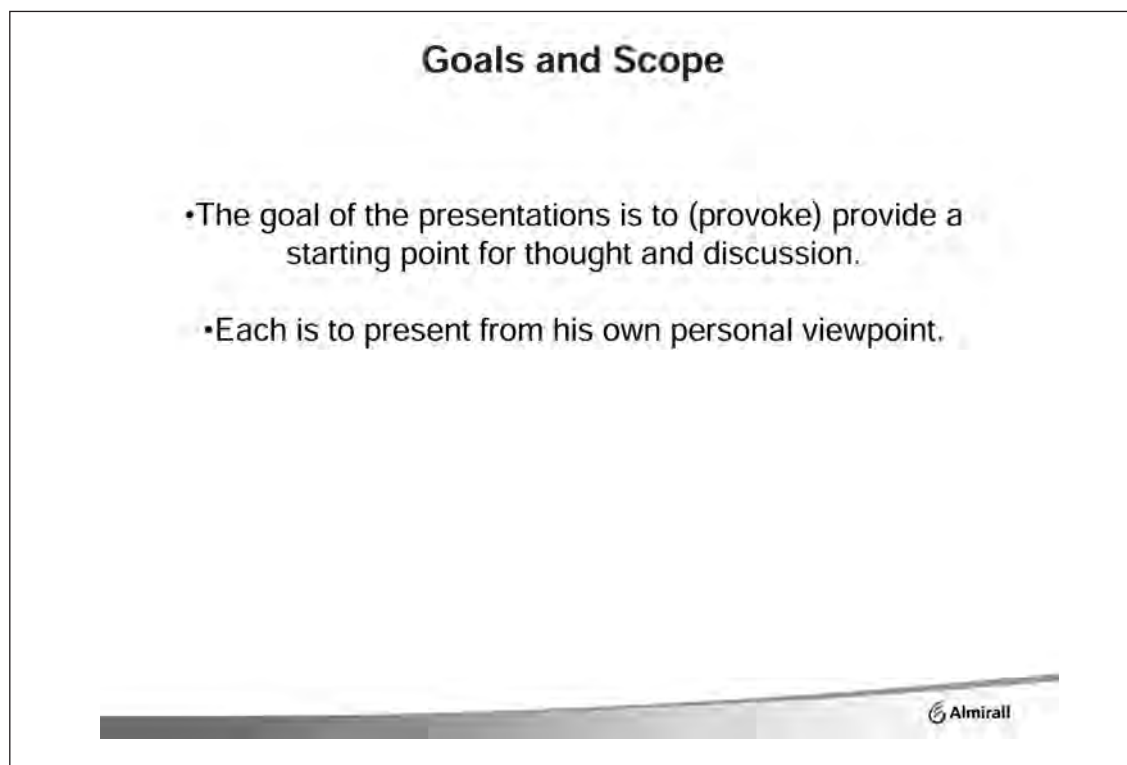
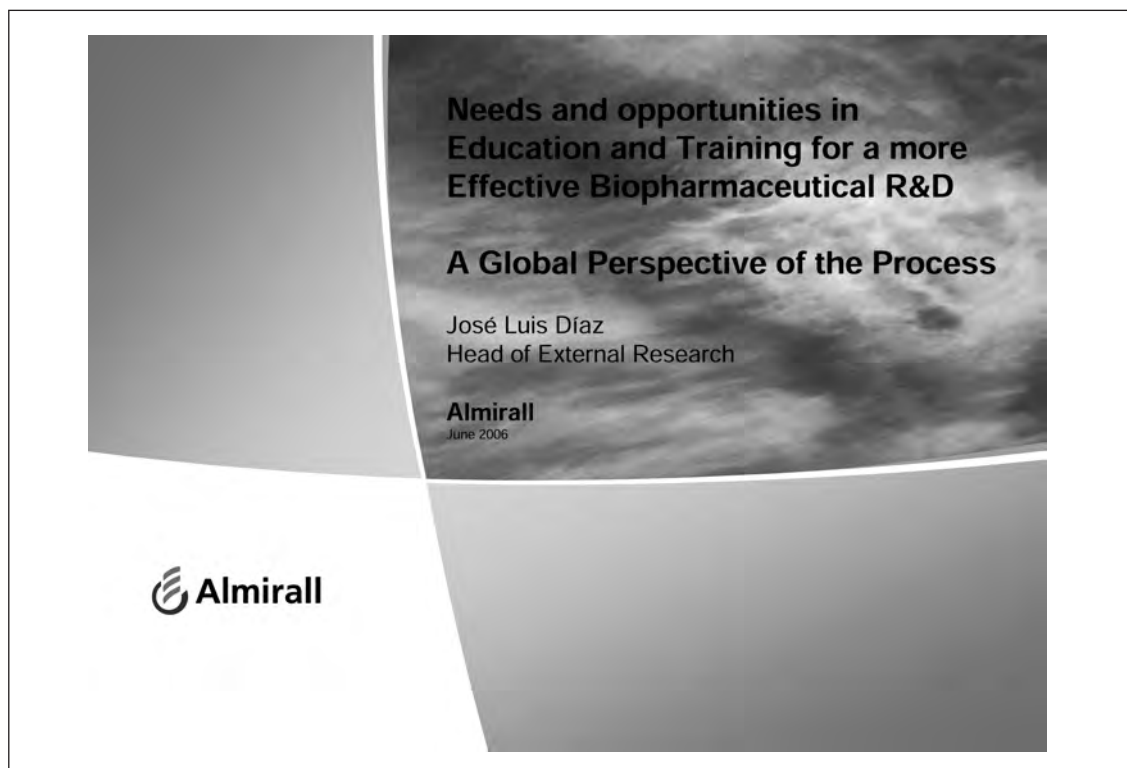
Each of the subsequent presentations represents a personal viewpoint and provides a starting point for thought and discussion on the needs and opportunities in education and training for a more effective biopharmaceutical R&D. However, the goal of my presentation is in the form of a preface or introduction, to give an overview of the general biopharmaceutical process in order to help put these needs and opportunities into context.

The approach to R&D throughout the pharmaceutical industry is sufficiently uniform to allow identification of a series of key phases in drug discovery and development. Similarly, there are a series of standard activities associated with each of these phases; that is to say, there is a global process that can be defined.

Although to some, the idea of a process may appear alien and restrictive when applied to scientific research, within the context of the pharmaceutical industry it has proved invaluable in the acceleration of drug discovery. Through an adoption of a systematic approach, companies have been better able to ensure that key steps in the critical paths of R&D are adequately resourced.


Whereas this systematic approach is not necessarily applicable to an academic environment, it is important to understand the global process in biopharmaceutical R&D. This facilitates the identification of the needs and opportunities arising, in order to be able to tailor education and training accordingly.

Diapositivas / Slides

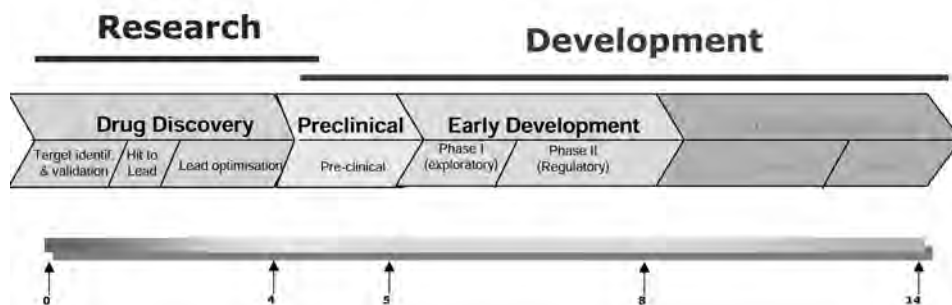


The Process

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- Similarly, there are a series of standard activities associated with each of these phases.
-that is to say, there is a global process that can be defined.
- It is important to understand this global process in R&D in order to identify the needs and opportunities in education and training.

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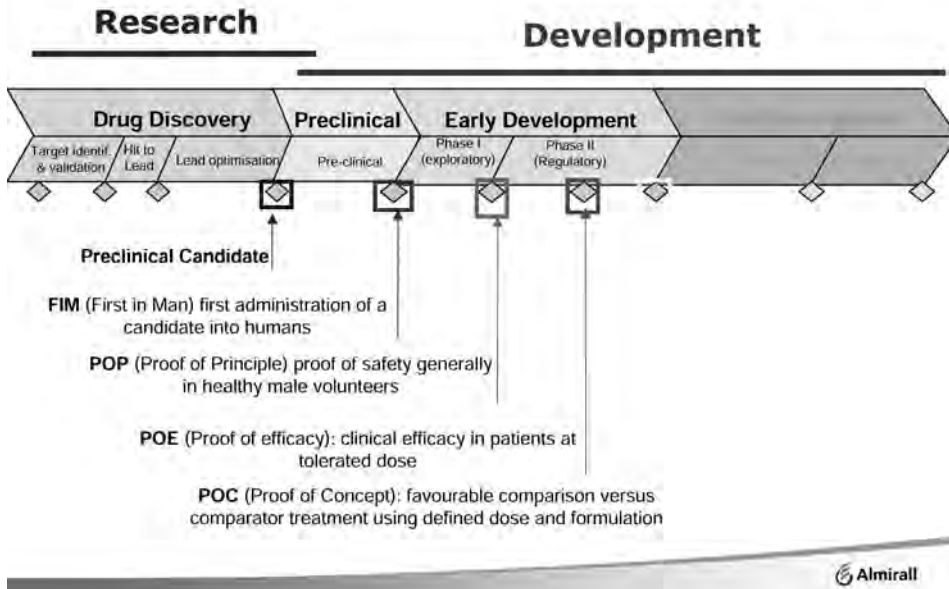
The different phases of the Pharmaceutical R&D process



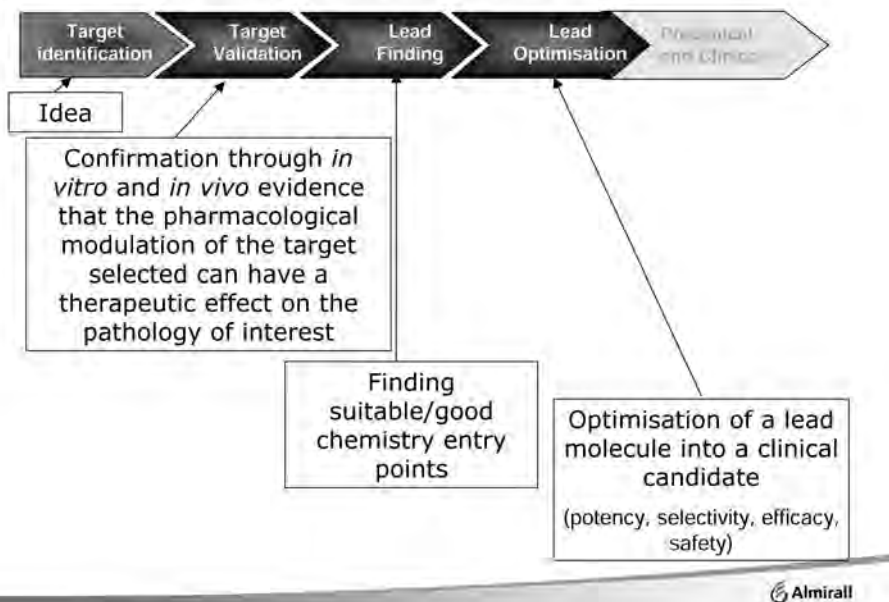
- The complete process can take between 10 and 14 years.

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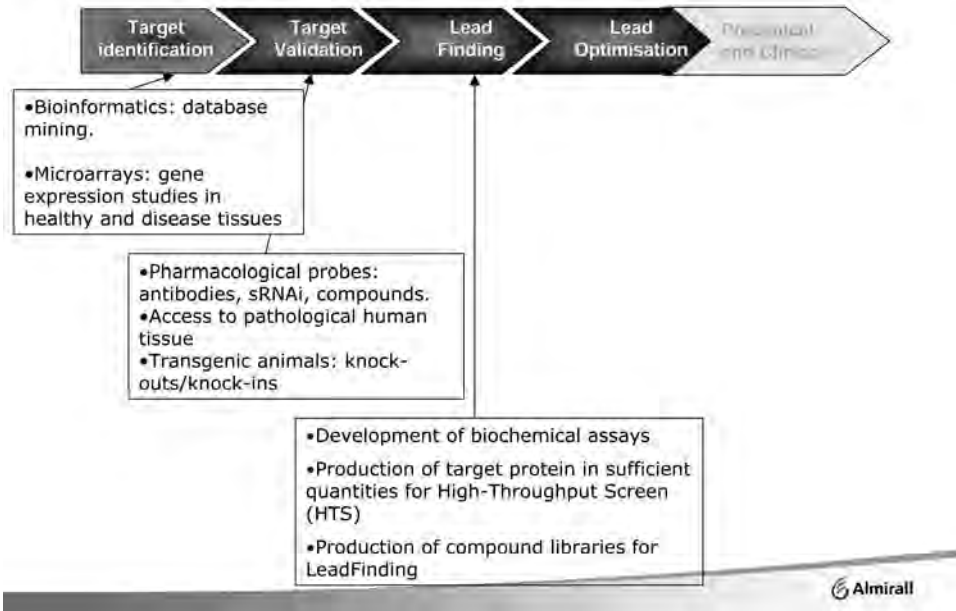
Important Milestones in the development of a drug



The different phases of the Research process



Activities associated with the Research process (I)



Activities associated with the Research process (II)

