



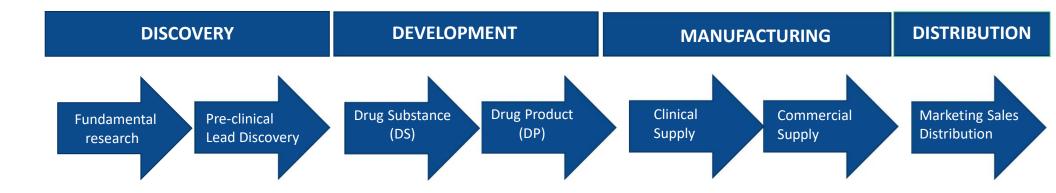
FROM THE LAB TO THE MARKET

SUMMARY

- I. CREATION OF THE COMPANY
- **II. FINANCING OF THE COMPANY**
- **III. DEVELOPING THE INVENTION**
- IV. EXIT



Drug development timeline





- Consulting agreements
- Master Service Agreements (manufacturer, CRO)
- Clinical Trial Agreement
- Insurance contract
- Regulatory pre-clinical and clinical advice





A long and expensive process

It takes around ten years and up to several hundreds of millions to bring a new drug from the academic laboratory where it is discovered to the market as a cure for patients.

- O Academics -> Fundamental research up to initial proof of concept and patent
 - -> financed by public money (from 1M to 20M)
- O Start-ups -> Preclinical and clinical research up to end of Phase II clinical trial
 - -> financed by investment funds and public money (from 5M to 90M)
- O Pharma -> Phase III clinical trial up to market authorization and commercialization
 - -> auto-financed (from 20M to more than 100M)



I. CREATION OF THE START-UP

- BUSINESS PLAN
- IP ASSETS
- Type of Company
- By-Laws and Shareholders agreement
- MANAGEMENT TEAM

"A good management may succeed with a bad idea but a bad management will ruin a good one"

(Peter Kolchinsky, Phd The Entrepreneur's Guide to a Biotech Startup)

- In-License
- By-laws
- Shareholders agreement



II. FINANCING OF THE START-UP

Types of Financing

- > Non-Dilutive Public grants (government grants, funding from regional or international agencies)
- Dilutive:
 - ✓ Love Money (founders, close friends or family members)
 - ✓ Pre-seed
 - ✓ Seed
 - ✓ Serie A
 - ✓ Serie B
 - ✓ Serie C; etc.

Types of Investors

- > Business angels (private individuals who invest in businesses)
- > Family Office (privately held company investing funds for wealthy families)
- Public bank / funds
- Venture Capital Funds Corporate VC



- Term Sheet
- Shareholder's agreement
- Investment agreement



III. DEVELOPING THE INVENTION

PRE-CLINICAL STAGES

- Discovery Proof of concept and Development
- Manufacturing of Product at industrial level (GLP/GMP)
- Preclinical Research

CLINICAL DEVELOPMENT

- Phase I: Initial clinical trials to establish safety
- Phase II: Initial clinical trials to establish efficacity
- > Phase III: Initial clinical trials to establish clinical benefit

REGULATORY AUTHORITIES' REVIEW

- > During pre-clinical and clinical development
- Regulatory Authorities examine all the data related to the drug or device and make a decision to approve or not to approve it.

Post-Market Authorization (Safety Monitoring)

Regulatory Authorities monitor all drug and device safety once products on the market.

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- Master Service Agreements (manufacturer, CRO)
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IV. EXIT

■ IPO (INITIAL PUBLIC OFFERING)

Shareholders may use the financial markets to sell their shares in the company which becomes listed on the stock exchange.

- o Allows shareholders to find significant funds while retaining the majority of capital
- o Allows the company to gain visibility
- o Allows investors to manage the timing of their exit

M&A

- o Directly buy the securities of the target or
- o Create a new vehicle ("newco") that will carry the target's securities

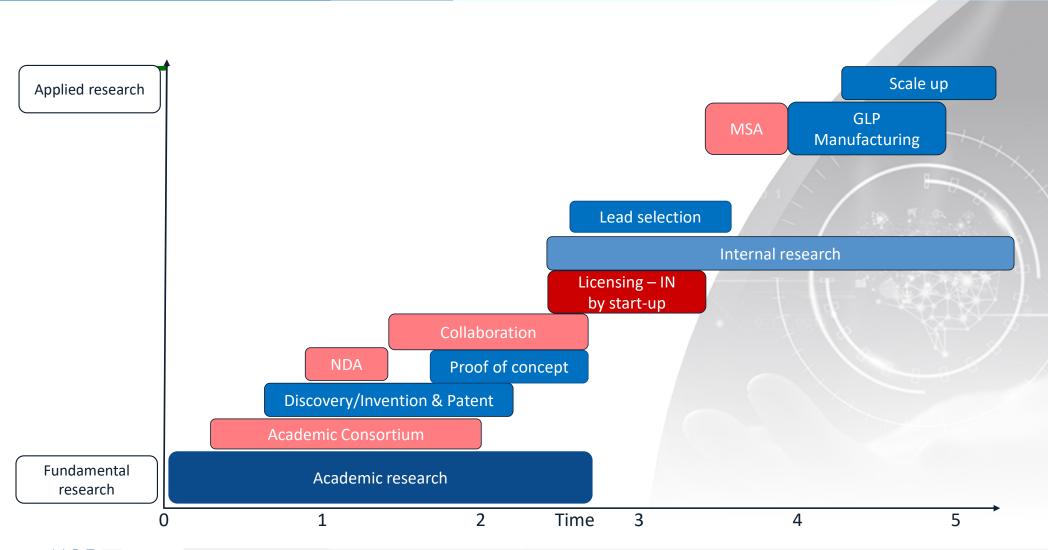
Specific issues:

- Remain in the company (as minority shareholder or manager) or not?
- Respect of non-competition clauses
- Payment of a transformation event royalty stated in the license agreement

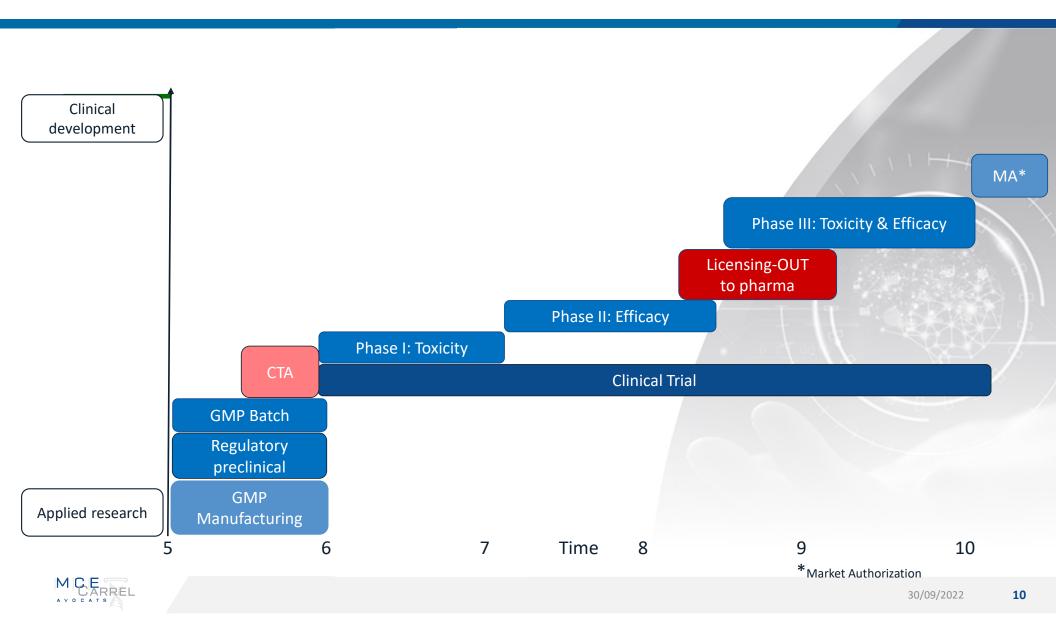
■ LICENSE OR SUB-LICENSE OF EXPLOITATION RIGHTS

- * « A typical exit strategy is to license the development rights to a large multinational pharmaceutical company <u>after a successful Phase I study or after proof of concept (usually in Phase II) is established</u>. » (Peter Kolchinsky, PhD The Entrepreneur's Guide to a Biotech Startup)
- « Most of the value of drug development is realized near the end of the process, when the risk of clinical failure has been mitigated with positive data. With positive Phase III data, for example, the company may be able to negotiate a deal with generous upfront. »





M C E





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Alexandra CARREL

Biography

Alexandra Carrel is the former General Counsel and Secretary General of Inserm Transfert, TTO of Inserm, and worked for global law firms in London, Geneva, and Paris before setting up Cabinet Carrel in 2014, which became the French offices of MCE Avocats in 2021.

She is a Certified Licensing Professional and has acquired unique expertise in innovation and technology transfer, with a focus in the life sciences.

Alexandra Carrel is admitted to the Geneva (1997) and Paris Bars (2002).

Her expertise in intellectual property and business law allows her to intervene in complex operations and to assist her clients in all elements of the process from the protection of their innovations to the outsourcing of their technology, including the development, registration, manufacture, production and marketing of their products.

Recent operations

- Advice to innovative start-up companies as well as to academic institutions for the negotiation of licenses (in- and out-) and co-development agreements with industrial partners.
- Advice to biotech and medtech companies in cross-licensing agreements with industrial partners.
- Advice to innovative start-up companies on the development, manufacture, production and distribution of their new product.
- Advice to innovative start-up companies on their fundraising process.
- IP and contract audit for investors or for the target company, in view of an investment round or an acquisition.
- Advice to innovative start-up companies on the sale of their assets to industrial groups.
- Advice to start-ups regarding the negotiation of agreements with academic institutions (collaboration, co-development or lincense-in/out).



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