



## When IP meets marine biotechnology

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# What about us?

- French and European patent attorneys
- Responsible of the biology activity in Lorient's office
- 6 and 13 years of experience in IP
- Lecturer at the chamber of Commerce of Paris (IRPI)
- Biotechnology, agronomy, immunology, bioprocess, genetic engineering, cosmetic, pharmacology



- Presence in Europe (UK, BE, NL, CH, FR)
- Presence in regions (Lorient, Metz, Strasbourg, Marseille, Bordeaux, Besançon)
- 170 professionals among them about 25 patent engineers
- IP strategy, patent rights



# Relationship

**French Patent Office (INPI)**



**French Patent Applications**

**French and European patent attorneys**



**European Patent Office (EPO)**



**European Patent Applications**

**Inventor : researcher**



**IP manager**



**Inventors in industry**



**Technical note**



**Technical note**



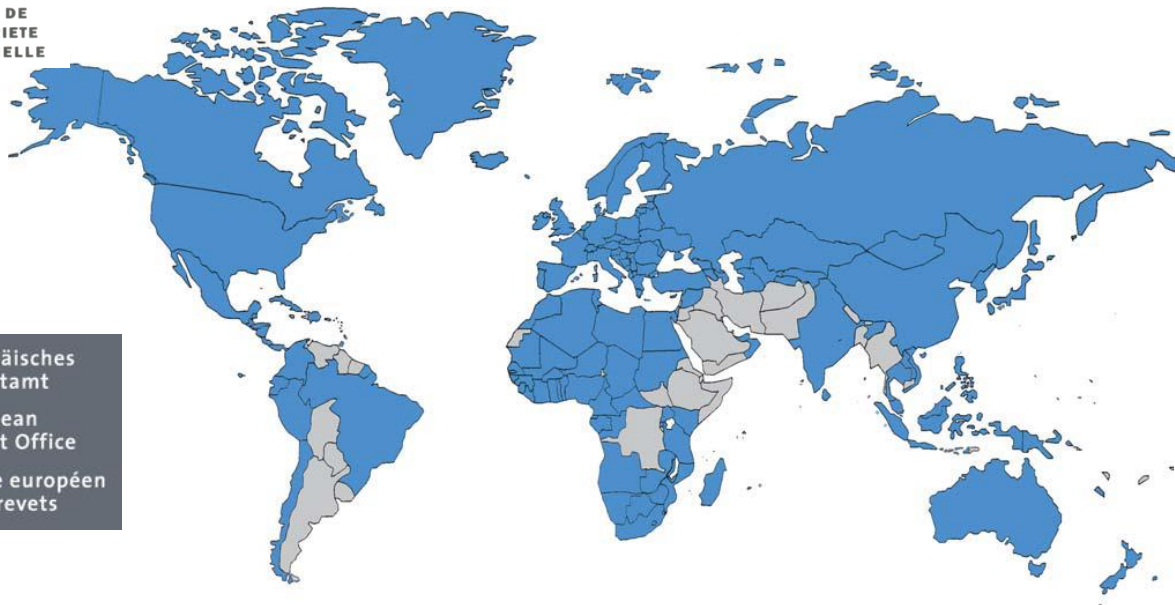


# Introduction to IP

Rights are obtained by filing a patent application, and the grant of the patent



- Right to prohibit exploitation of a third party
- on a specific territory
- up to 20 years





# Why filing a Patent Application?

- Protect your technologic innovations and you investments
- Increase the value of your firm (asset)
- Provide confidence to the investors
- Keep control of the market by excluding competition
  - Without IP protection of invention, the copier takes an advantage on the inventor (commercialization without previous investment in R&D)
- Communicate about your firm and its activities



**1. Invention: a technical solution to a technical problem**

**2. Criteria for patentability:**

Novelty

Inventive step

Industrial applicability

(sufficiency of disclosure, clarity)

**3. Exclusions of patentability:**

Therapeutic and surgical treatment, contrary to public order and morality



## **Products:**

transgenic animals, cell lines, chemical products, molecules derived from living organisms, DNA/RNA sequences, plasmids, virus, plants, apparatus, kits, medicaments

## **Processes:**

manufacturing, purification, selection (targeting), cellular fusion, culture

## **Uses:**

second therapeutic uses, cosmetic uses and non-therapeutic uses





# What about the costs?

## In France :

- ✓ Study the file and writing the Application
- ✓ Official fees (INPI)
- ✓ Examination and grant proceedings
- ✓ Renewal fees

Total cost: 15 000 € for 20 years of exclusivity

Or 750 € / year / 20 years

## Europe :

Total cost: 35 000 € for 20 years of exclusivity

Or 1750 € / year / 20 years



# Some statistics

## Algae

World : > 45,000

Europe: 7237

## Algae production

World : ~ 15,000

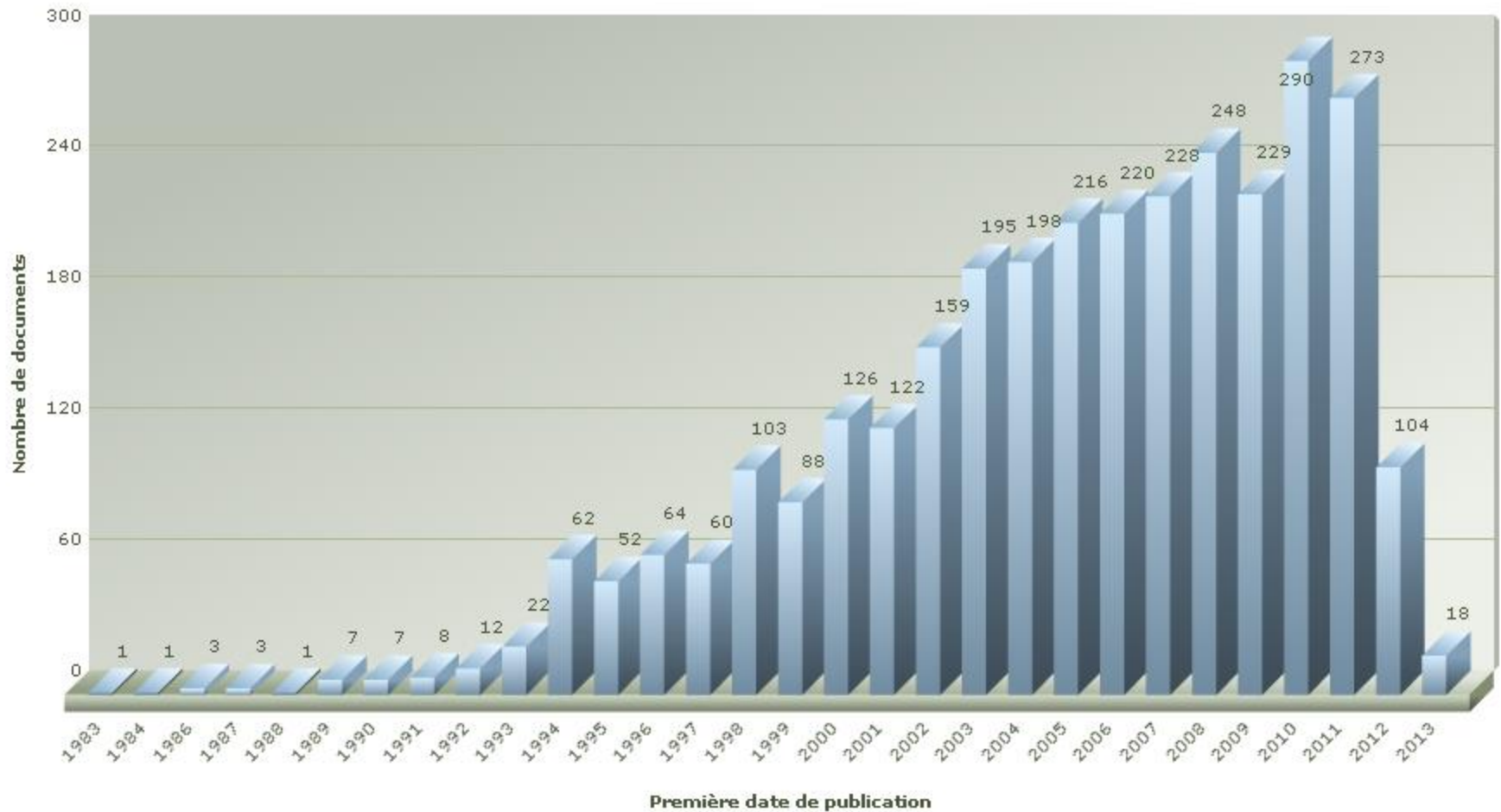
Europe: 3120

*In title, abstract and claims last 20 years*



# Some statistics

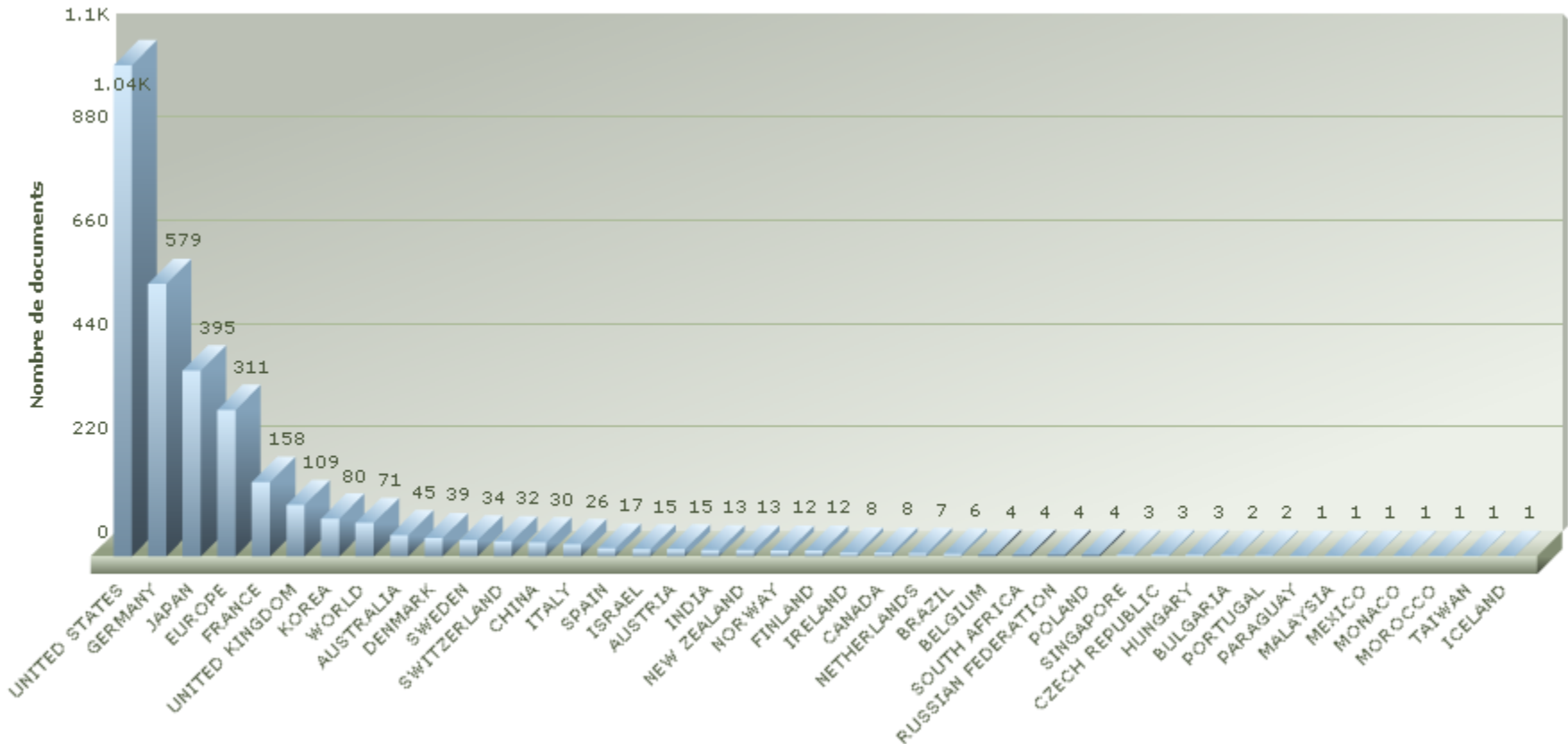
## Number of publication in Europe





# Some statistics

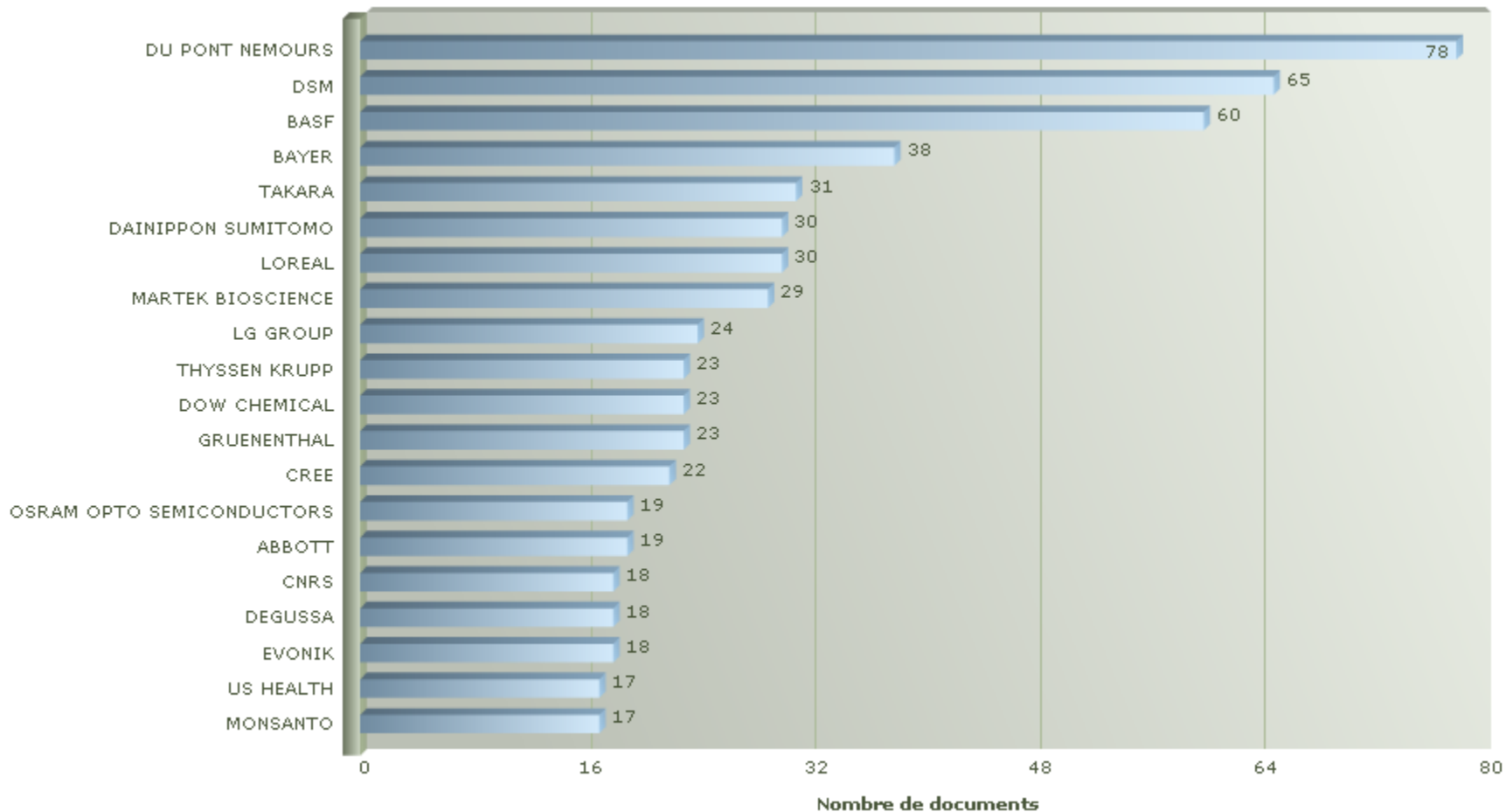
## First Applicants in Europe





# Some statistics

## First Applicants in Europe





**Thank you for your attention!**



The Rendez-Vous de Concarneau