



European IP Helpdesk

Stay ahead of the innovation game.

European IP Helpdesk

IP in Biotechnology

11.02.2025





European IP Helpdesk

- Service initiative of the European Commission
- Addressing **current and potential beneficiaries of EU-funded projects, researchers and EU SMEs**
- Free-of-charge first-line support on intellectual property (IP)
- Hands-on IP and innovation management support
- International pool of IP experts from various thematic fields
- Unique cooperation scheme with the Enterprise Europe Network: 43 ambassadors from 26 EU countries



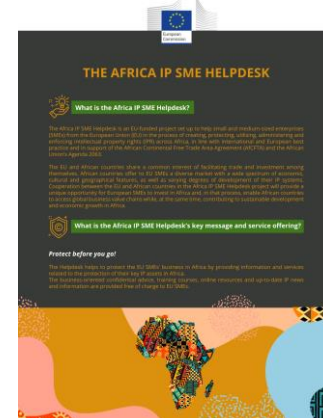
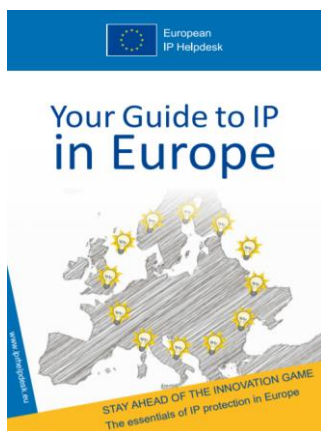


The EC IP Helpdesks





EC IP (SME) Helpdesk Hub – Gateway to Information



- E-learning modules & more
- Guides / Topic, country, sector-specific factsheets / Infographics
- Case studies



Upcoming events



11
FEB
2025

Training and workshops

[EU - Webinar: IP in Biotechnology](#)

(-) Live streaming available

13
FEB
2025

Training and workshops

[EU - Webinar: IP & Open Science](#)

(-) Live streaming available

17
FEB
2025

Training and workshops

[EU - Webinar: IP in Horizon Projects \(HEU\)](#)

(-) Live streaming available

19
FEB
2025

Training and workshops

[EU - Webinar: Technology Transfer](#)

(-) Live streaming available

25
FEB
2025

Training and workshops

[EU - Webinar: IP Management in ICT Projects](#)

(-) Live streaming available

27
FEB
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Training and workshops

[EU - Webinar: Copyright in collaborative projects](#)

(-) Live streaming available

04
MAR
2025

Training and workshops

[EU - Webinar & Horizon Results Platform: IP in Business collaborations for SMEs and Start-ups](#)

(-) Live streaming available

06
MAR
2025

Training and workshops

[EU - Webinar: IP Assessment](#)

(-) Live streaming available



Intellectual Property (IP)

Creations of the mind, such as:

- technical inventions
- literary and artistic works
- designs
- symbols
- names and images

used in commerce.



Intellectual Property, is ...

- ... compulsory for successful exploitation of inventions
 - Manufacturing
 - Founding
 - Licensing
- ... part of an IP strategy which is necessary for efficient cost control
 - First filing
 - Territories
 - Smart IP: patent / trademarks / designs
- ... to be connected to the product development

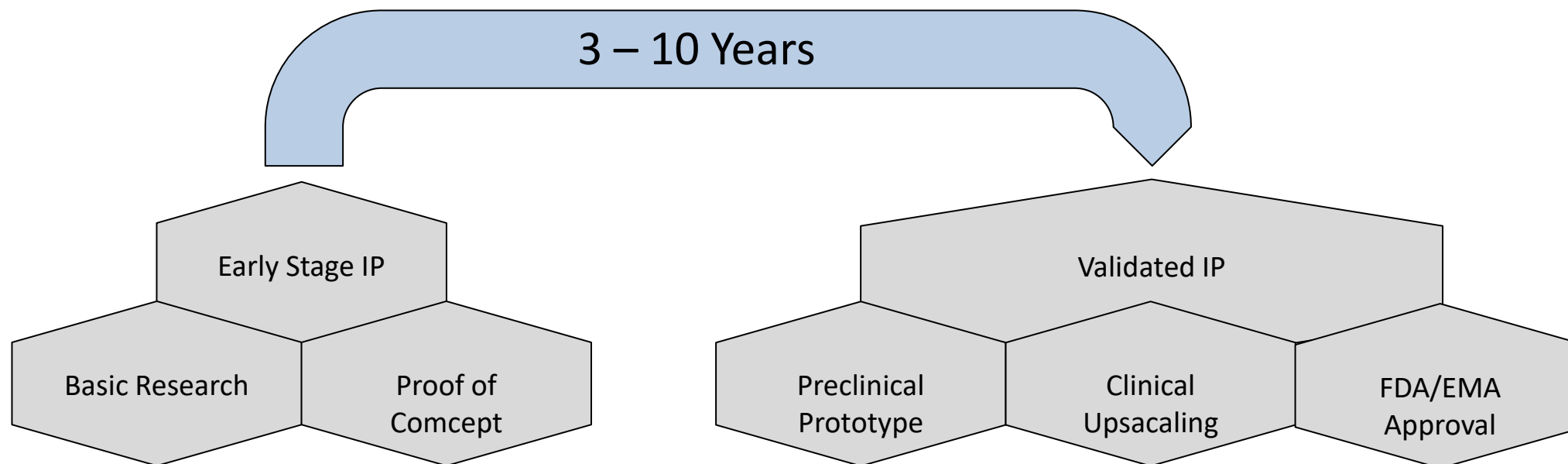


IP Strategy

Is a dynamic process accompanying product development.



Synchronize IP and Product Development





Manage IP actively

Apply early (enough) ...



... but adjust your IP to product development (within following years).



Manage IP actively

- No publication prior to filing patent applications
- Distinguish technically different inventions (unity of invention)
- Monitor further product developments for adjusting pending patent applications
- Keep clear about ongoing publications from competitors (scientific and patent applications)



The secret of patenting

Article 84 EPC (European Patent Convention)

“The claims shall define the matter for which protection is sought. They shall be
-Clear and Concise and
-be supported by the description”



The secret of patenting

Claim contains



technical feature(s)

Distinguishing from prior art to obtain



technical effect

Grant



resulting advantage



When to file

An invention is “ready” when you can describe a technical problem and its technical solution.

- Characterize your invention with technical features.
- It's not about results to be achieved.

Example:

What technical property defines the binding specificity of an antibody?
Sequence, required amino acids, modified amino acids.....



When to file

- An invention is made, when when there is “a conception and reduction to practice”
- Use a first filing for obtaining a search report, this is the cheapest way to get an official opinion on relevant prior art
- No experimental results needed for first filing,
but for “final” filing for getting a patent granted



What to protect?

- Compound / Composition of matter
- Process/Method for the production of a compound / composition
- Compound for the treatment of a disease
 - First time: Compound X for use as a medicament.
 - Second medical use: Compound X for the treatment of Y.
- Use of compound / composition
(Take care, not allowed in the U.S.)



Direct patent prosecution in your direction

- Tell the whole story, do not keep any important features
- Enablement is important: clear, concise (Art. 84 EPC; 35 USC 112a)
- describe all embodiments and combinations of features
- EPO is very strict about "intermediate generalizations"
 - Addition or deletion of features has to be disclosed in its context
 - Don't rely on implicit disclosure
- connect advantages to embodiments / feature combinations



Direct patent prosecution in your direction

- do not keep any relevant prior art
 - Disclose it
 - Distinguish your invention from it
 - Discuss it in the detailed description, anticipate examination report(s)
- Think carefully about the scope of your disclosure, it may conflict with subsequent applications
- Stick to the facts, be careful when speculating which may anticipate further inventions
- First to file, than to disclose it in public



Direct patent prosecution in your direction

- Provide enough examples, otherwise you may
 - be restricted to compounds mentioned in the examples
 - not get the protection you really need, use as a medicament
- Provide the correct examples with respect to the claimed medical use of a product

Example: Good expression of a protein does not give evidence on effects of reducing tumor growth.

- Take care that a claimed use does not serve to maintain or restore health, physical integrity or well-being of a human or animal (in Europe)



Avoid the therapy / surgery / diagnostics trap

Article 53 EPC

European patents shall not be granted in respect of:

(c) **Methods for treatment of the human or animal body by surgery or therapy and diagnostic methods** practiced on the human or animal body;

this provision shall not apply to products, in particular substances or compositions, for use in any of these methods



Defining the Boundary Line of Admissibility

- At least one feature or step defining a physical activity or action that constitutes a method step for treatment of a human or animal body by surgery or therapy is sufficient for falling under the exclusion of Art. 53 c) EPC
- The non-patentable subject-matter must be removed – this can be achieved either by a disclaimer or by omitting the surgical step from the wording of the claim
- But: Devices like surgical instruments or pharmaceuticals used in therapy are patentable subject-matter



Defining the Boundary Line of Admissibility

- Fixing a measuring device that is indispensable for the method's performance defines a surgical step (T 932/08)
- Treatment by surgery is not limited to therapeutic methods: the exclusion from patentability may also apply to cosmetics



Examples for filing strategies





Classic

- First Filing: national filing
- Language: national language (German, English, French, Italian...)
- Fees: 300 - 500 Euros
- Disadvantage: Language, Territory
- Advantage: Costs



Classic luxury

- First Filing: European Patent Office (EPO)
- Languages: German / English / French
- Fees EPA: around 1.800 Euros
- Disadvantage: Costs
- Advantage: Language, Territory



Exotic (recommended when US inventors contributed)

- Provisional: United States Patent and Trademark Office
- Language: Englisch
- Fees USPTO: 280 USD (Application Large Entity)
- Disadvantage: No search report
- Advantage: Costs, (Language)



Why do you file an application?

- 1) Aim is publication only
→ Generate prior art

- 2) Aim is grant of a patent
→ Obtain enforceable IP right



1) Intention of Filing: Publication

- Application in UK
- Official Fees: around 170 £ (including search fee)
- Language: English

(Subsequent filing possible if search report is positive)



2) Intention of Filing: Grant

- Quality of Search Report
 - cited prior art: relevant?
 - Enabling amendment of claims
 - Speed up grant
 - Reduce costs
- Having your place of business within EU requires filing PCT applications via EPO



2) Intention of Filing: Grant

In essence:

- Low cost
- High quality





Solution: National-to-European Application





National-to-European Application

- Several countries in Europe (France, Luxembourg, Netherlands, Belgium, etc.) use the European Patent Office as the Search Authority for a national patent application.
- The applicant receives a European-style search report
- The European-style search enables the applicant to identify any relevant prior art and to adapt the claims and/or description to the European requirements within the first year after filing the initial application (priority application).
- It is possible to anticipate a major part of the European examination procedure.
- A European application will benefit from the prior search results
- The search fees of national authorities are usually lower than the European search fee



National-to-European Application

- In case that the EPO is the national search authority, experience shows that the same examiner who searched the national case will generally be in charge of examining the later European application.
- The patent search will not be repeated after filing a European application and at least some of the fees paid at the national stage will be credited against the costs of the European search.
- The advantage of this National-to-European strategy is that, even if relevant prior art is found, a broader degree of freedom is given for revision of the application in comparison to a European application being on file which has been searched.



Example Luxembourg

- An example for a National-to-European strategy using the EPO as search authority for the national and European filing is to file a national application in Luxembourg.
- The Luxembourg application can be filed in French, German or English.
- In the case of an English language application, only the claims need to be translated at a later stage. A translation of the whole description is not necessary.
- The cost of the European-style search report is for Luxembourg is at only 490 Euros, which is about 1/3 of the European fees.



Aspects for the development of an IP strategy



Aspects for the development of an IP strategy

- First filing should be placed if subject-matter can be described using technical features for characterization.
- With respect to costs a first filing should be placed via Luxembourg
 - To get a first search report on patentability
 - To get insight in relevant prior art
 - To get insight whether freedom-to-operate is given



Aspects for the development of an IP strategy

- Careful analysis of search report
- Do your homework by considering Examiner's objections
- Probably withdrawal of first filing for placing a “new” first filing
- Proceed only when sufficient data is at hand



Alternative to a patent application





Alternatives to a patent application

- Patent applications will be published 18 months calculated from the first filing date
- Competitors will get hindsight what you are working on
- Filing patent applications omitting essential features is contrary to a good IP strategy
- A decision has to be made whether to **file an application**
or to handle an invention as **trade secret**



Handling of trade secrets

- Whoever gets knowledge of a trade secret must be aware of the trade secret
- The subject-matter or the basic technical fields of a trade secret must be defined
- The EU has a directive concerning the protection of undisclosed know-how and business information (Directive EU 2016/943)



Directive EU 2016/943

(1) “trade secret” means information which meets all of the following criteria

- (a) it is secret in the sense that it is not, as a body or in the precise configuration and assembly of its components, generally known among or readily accessible to persons within the circles that normally deal with the kind of information in question;
- (b) it has commercial value because it is secret;
- (c) it has been subject to reasonable steps under the circumstances, by the person lawfully in control of the information, to keep it secret;

- → A trade secret relates to information that is not publicly known and can be controlled



Directive EU 2016/943

- Definition of a trade secret holder

(2) ‘trade secret holder’ means any natural or legal person lawfully controlling a trade secret;

→ Not belonging to the public

- Consortium members
- CROs
- Collaborating companies/academia
- Patent offices
- Attorneys



Handling of trade secrets

- Agreements are necessary to clarify the handling of trade secrets
 - Non-Disclosure Agreements (NDA)
 - Collaboration Agreements
- Regulations concerning known secrets and future knowledge based on secrets will have to be negotiated
- Remember: It will not be possible to seek for patent protection when the invention is based on the use of a trade secret



Handling of trade secrets

- Create data rooms with different levels of access
- Use of data room is compulsory
- No copies on mobile or stationary devices are allowed without NDA
- A pending patent application has prior to its publication to be regarded as a trade secret



Back to patenting

- At a certain time, the decision may be made to seek for patent protection
- End of trade secret after 18 months from first filing of a patent application due to its publication
- The 18 month are often designated as ‘trade secret period’
- Withdrawal of a pending application prior to its publication extends the trade secret period (but requires a new filing if patent protection shall be obtained)



Thank you!

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