





COOPERATIVE OF SCIENTISTS

2013 2024





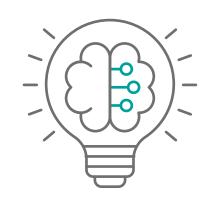


FACULTY OF PHARMACY UNIVERSITY OF THE BASQUE COUNTRY

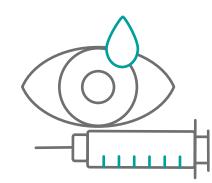












3rd PARTY **DEVELOPMENTS**

- + Hydrogels
- + Drug delivery systems
- + Nanocarriers

MANUFACTURING OF **FINISHED PRODUCTS**

- + Long acting injectables
- + Eye drops
- + Topical use

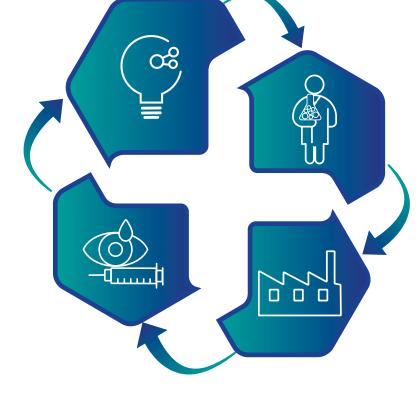
ADAPTEK TECHNOLOGIES — Controlled release — ADAPTMED PRODUCTS











ABILITY TO ASSUME **ALL PHASES OF THE PROJECT.**

- + Technological development
- + Patentability
- + Certification
- + Regulation and Quality assurance
- + Manufacturing of prototypes and pilot batches
- + Industrial scale-up
- + Analysis and assays



+90

R&D Projects 72

Researchers in the team

14

National and international awards



06

Technological Patents

- + Controlled release
- + Nanocarriers
- + Coatings
- + Phytocannabinoids



ADAPTEK TECHNOLOGY

A cross-cutting technology that allows the generation of biomedical and pharmaceutical solutions with high added value customized for each client.

Coatings Nanohydrogels Nanocarriers CONTROLLED RELEASE

Hydrogels



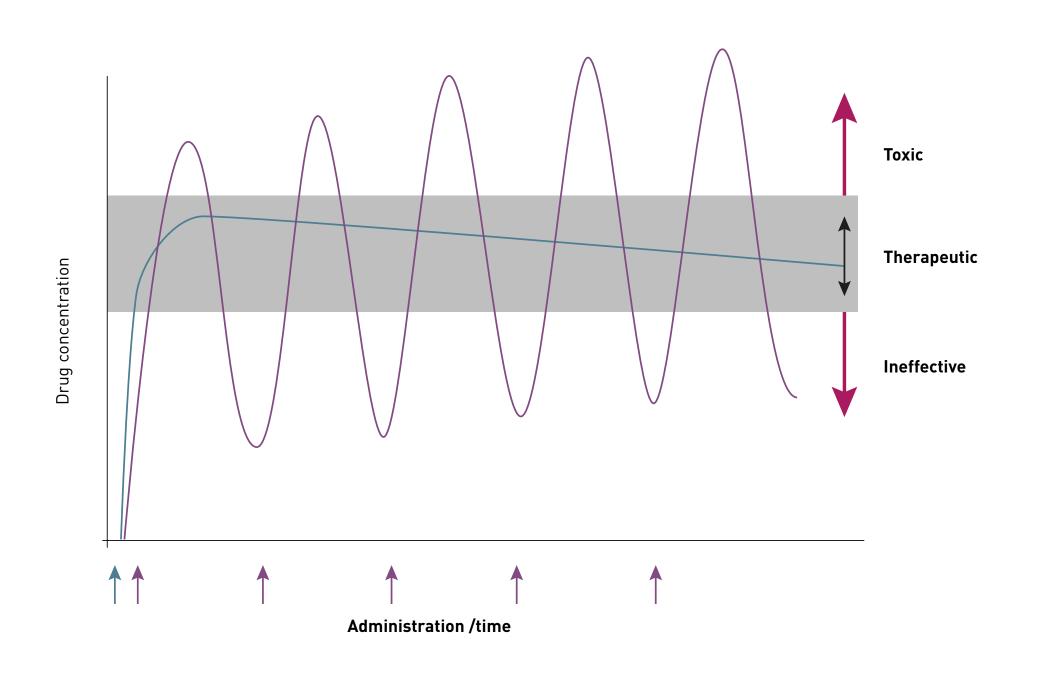
CONTROLLED RELEASE

MEDICAL ADVANTAGES

- + Long duration of the treatment since the 1st application
- + Less toxicity and systemic exposure with less side effects
- + Better efficacy
- + Stabilisation of molecules: against degradation, oxidation, improved solubility...
- + Less frequency of applications: better patient compliance

CORPORATE BENEFITS

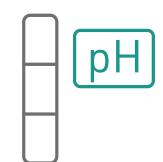
- + Cost reduction
- + Intellectual property and patent extension





STIMULI CONFIGURATION





pH DEPENDENT



TEMPERATURE DEPENDENT



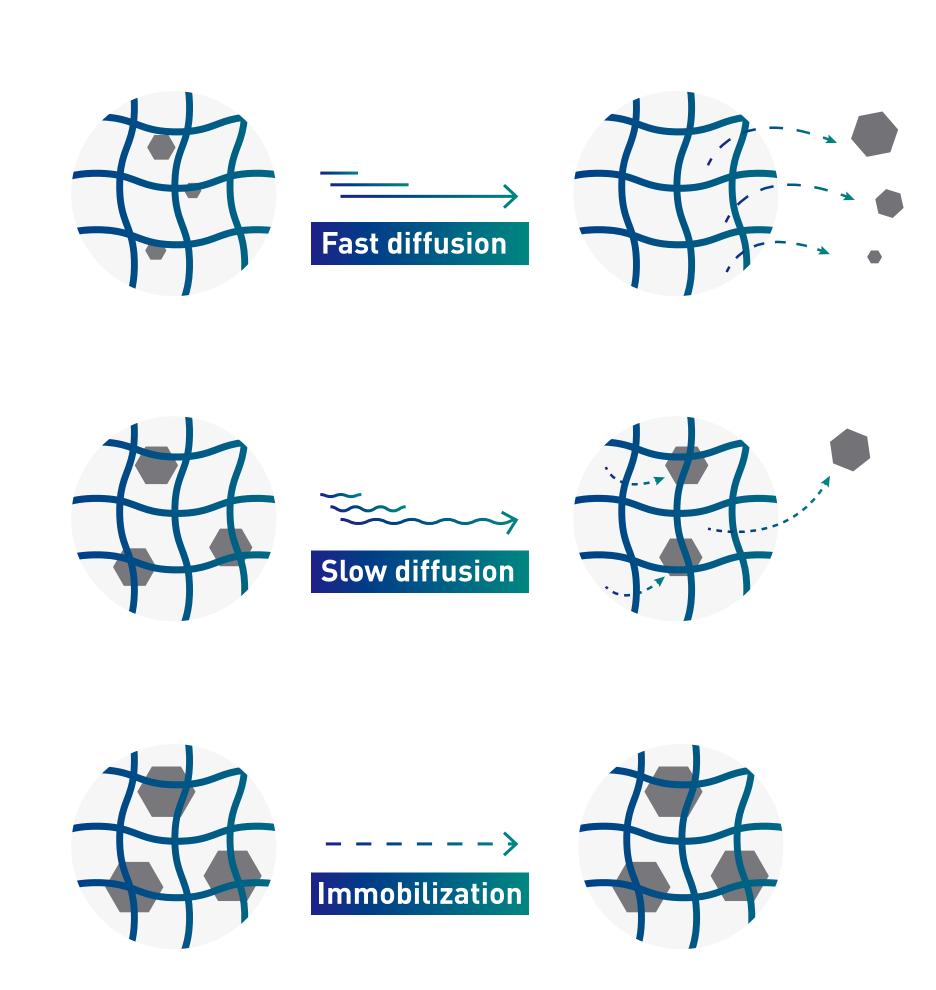
TIME DEPENDENT

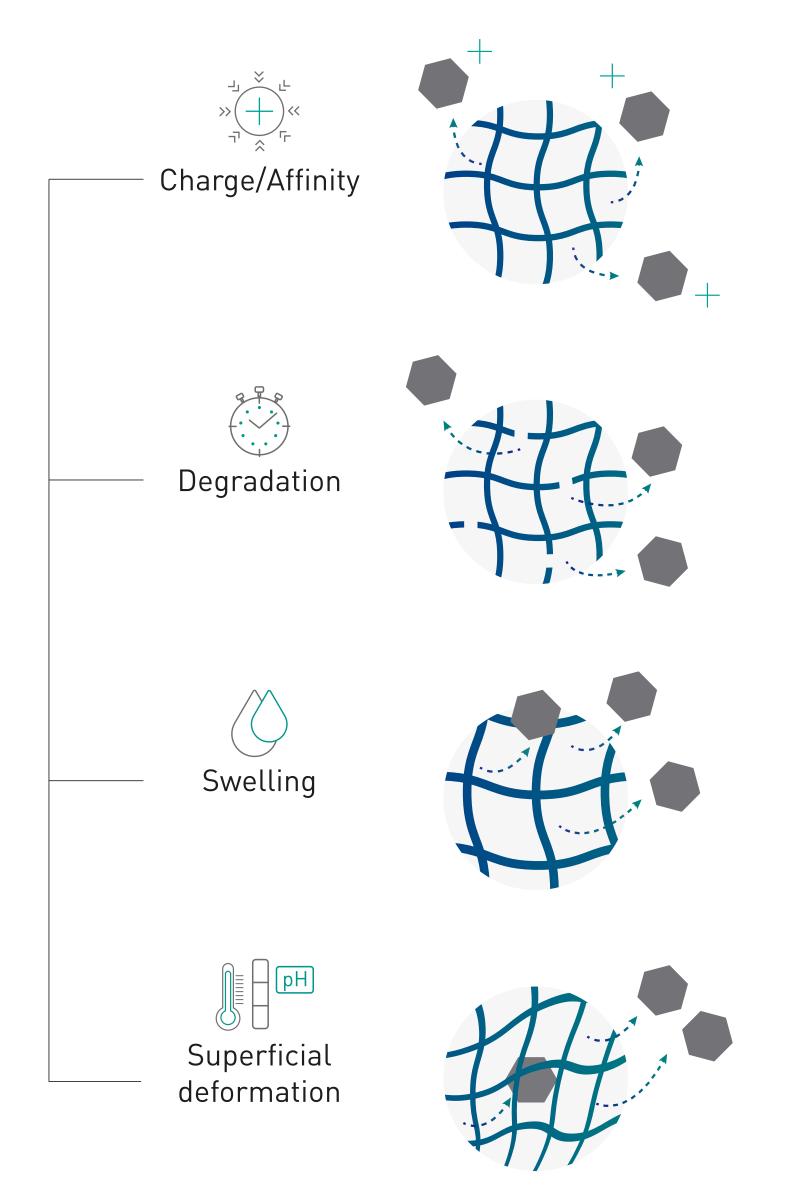


HUMIDITYDEPENDENT



Controlled release mechanisms





Drug size









APPLICATIONS:

- + Our technologies can be adapted to a wide variety of active compounds (small molecules, peptides, cells..)
- + Controlled release can be achieved even in sensitive tissues (mucous, inner ear...)
- + We can manufacture a wide variety of formats: injectables, creams, ointments, gels, sprays, coatings, etc

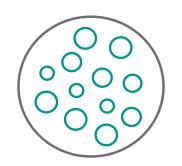


CONTROLLED RELEASE TECHNOLOGY



HYDROGELS

Continuous biopolymeric Hydrogels containing your substance and leading its biological activity.



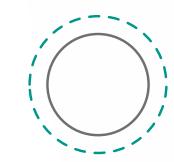
NANOCARRIERS

NanoCarriers are nanoparticle systems that vehiculize your active substances enhancing bioavailability and formulation capabilities.



SMART NANOHYDROGELS

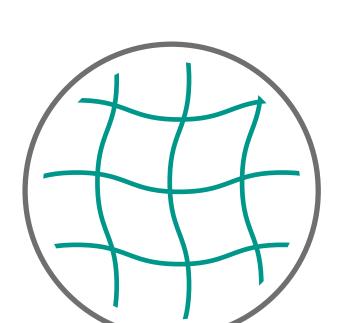
NanoHydrogels based on crosslinked polymeric networks delivers your active ingredient at the right time.



COATINGS

i+Med coatings perform a **sustained release** of the client's active substances, and acts as a physical barrier **against biofilm** formation.



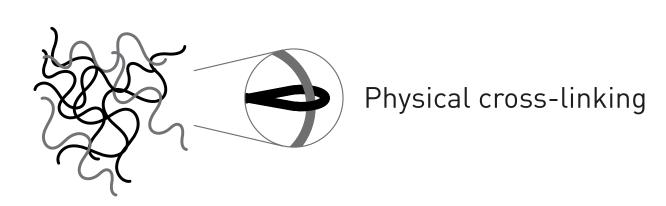


Hydrogels

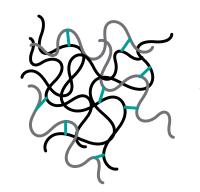
Continuous biopolymeric Hydrogels containing your substance and leading its biological activity.

- + Lineal and crosslinked endogenous and synthetic biopolymers.
- + Tunable mechanical and rheological properties.
- + Controlled release: Time, pH...
- + Mucoadhesivenees for a local effect.
- + Ajustable biodegradation rates.
- *Combinable with Nanohydrogels and NanoCarriers

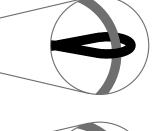




Linear



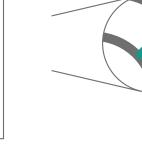
Cross-linked



Physical and chemical cross-linking

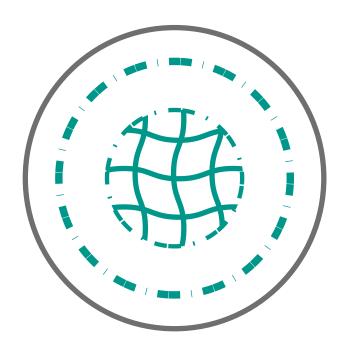


Particulated







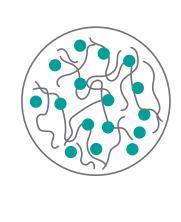


Smart Nanohydrogels

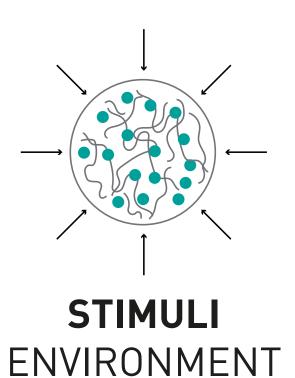
NanoHydrogels based on crosslinked polymeric networks delivers your active priciple at the right time.

- + Stimuli responsiveness (To and pH).
- + Tunable and customizable trigger.
- + Filmogenic and mucoadhesive properties.

- + Biomimetic distribution in physiological fluids.
- + Robust manufacturing process in water.
- + Patented technology.



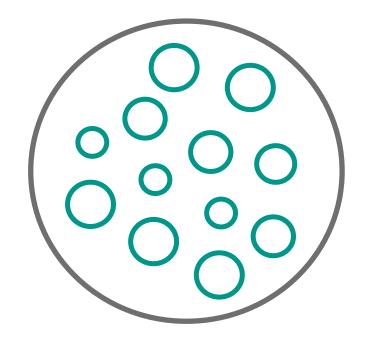
DRUG LOADEDSWOLLEN NANOGEL







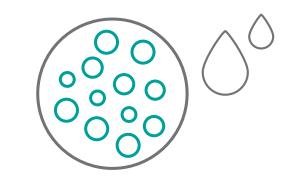




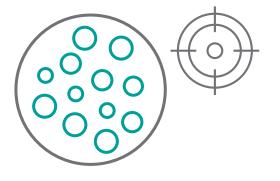
Nanocarriers

NanoCarriers are nanoparticle systems that vehiculize your active substances enhancing bioavailability and formulation capabilities.

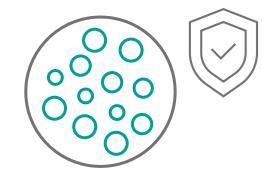
- + High encapsulation capacity.
- + Solubilization: Capacity to encapsule **lipophilic and hydrophilic** substances.
- + Tunable and customizable size.
- + Enhanced skin penetration.
- + Functionalized with active substances (active ingredient and targeting groups).
- + Functionalized lyposomes lipid and polymeric nanoparticles, micelles or others.







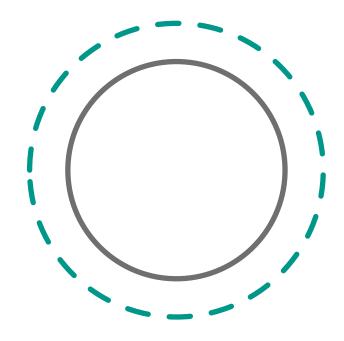
TARGETING



PROTECTION



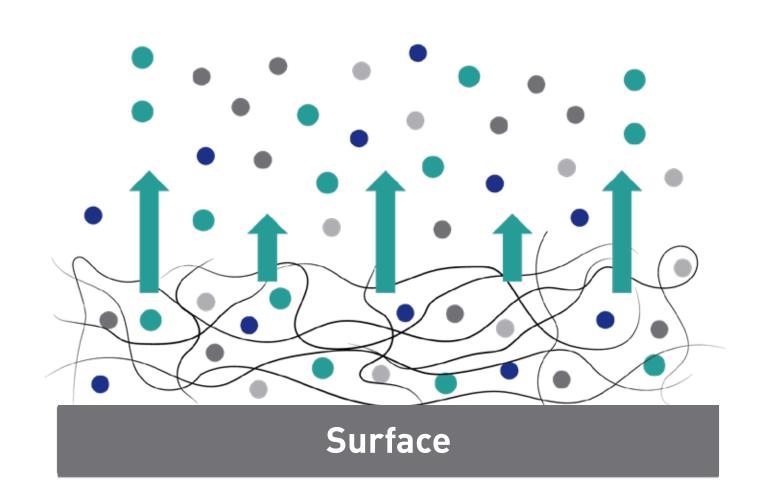




Coatings

i+Med coatings perform a **sustained release** of the client's active substances, and acts as a physical barrier **against biofilm formation**.

- + Lower rejection rate of implants.
- + Reduction of the **post-operatory** phase.
- + Promote tissue **regeneration** and implant **integration**.
- + Maintenance of the **optimum environment** around the implant.
- + Applicable on a **broad variety** of biomedical implant devices.

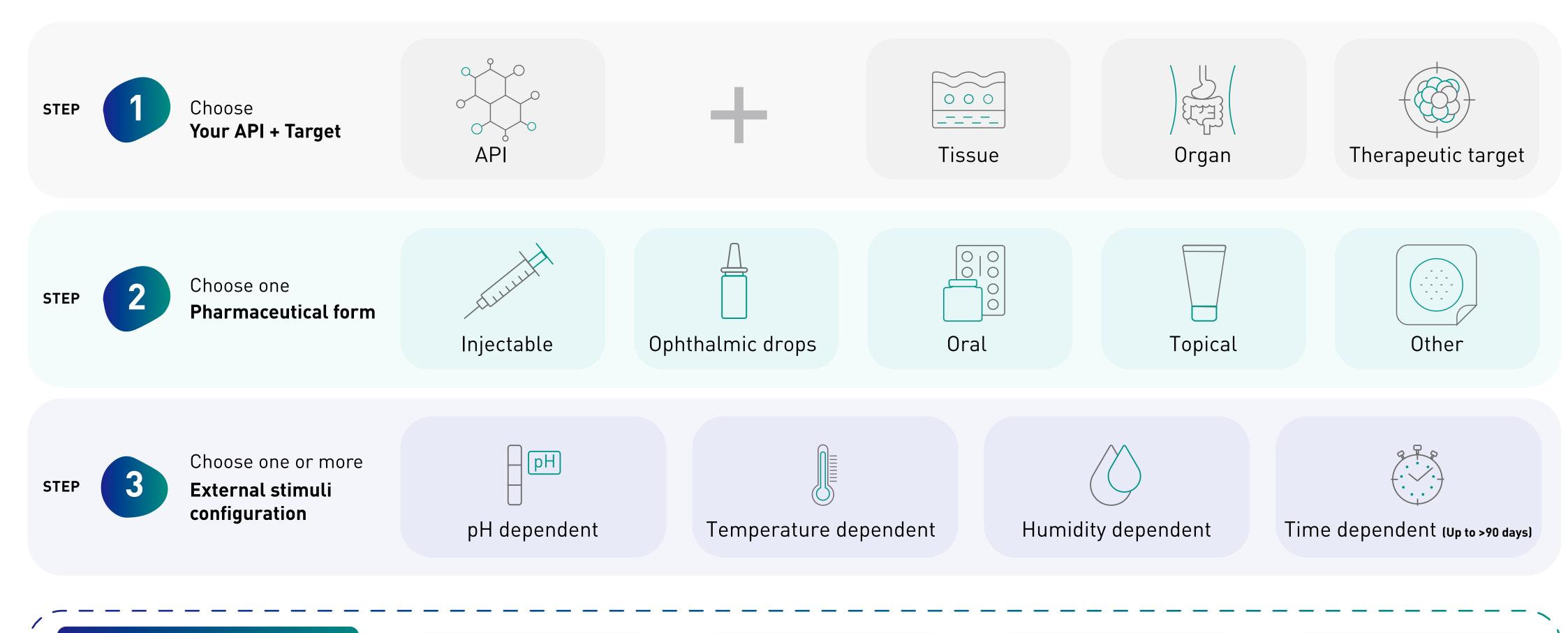


^{*}Combinable with NanoHydrogels and NanoCarriers.

ADAPTEK TECHNOLOGIES

On-demand. Make your own Combo



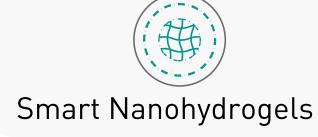


TECHNOLOGICAL STRATEGY

i+Med will choose the best

Controlled release technology for your Combo













CUSTOM-MADE MATRICES AND NANOCARRIER SYSTEMS ADAPTED TO THEIR CARGO

- + Specialists in nanohydrogels and long-lasting injectables.
- + Products and projects for third parties: Medical Devices and Pharma products.
- + Manufacturer's requirements: Quality System ISO 13485:2016



Transversal technology



Injectables for the release of active substance in intratumoral anticancer therapy









Therapeutic target

Injectable

pH dependent

Hydrogels



Mucoadhesive thermosensitive injectable hydrogel to prevent hearing loss with chemotherapy









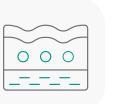
Organ Injectable

Time dependent

Hydrogels



Aesthetic injectable with controlled cell release system









Injectable

Time dependent

Nanocarriers



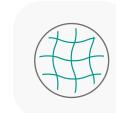
Thermoreversible haemostatic hydrogel for tissue regeneration in polyp resection surgery



Tissue







Therapeutic target

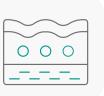
Other (solid)

T^o Dependent

Hydrogels



Artificial Intelligence (AI) applied to topical hydrogels









Tissue

Other (solid)

Time dependent Smart Nanohydrogels

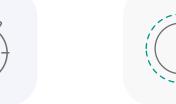


Development of nanohydrogels for the **coating of dental implants**









Organ

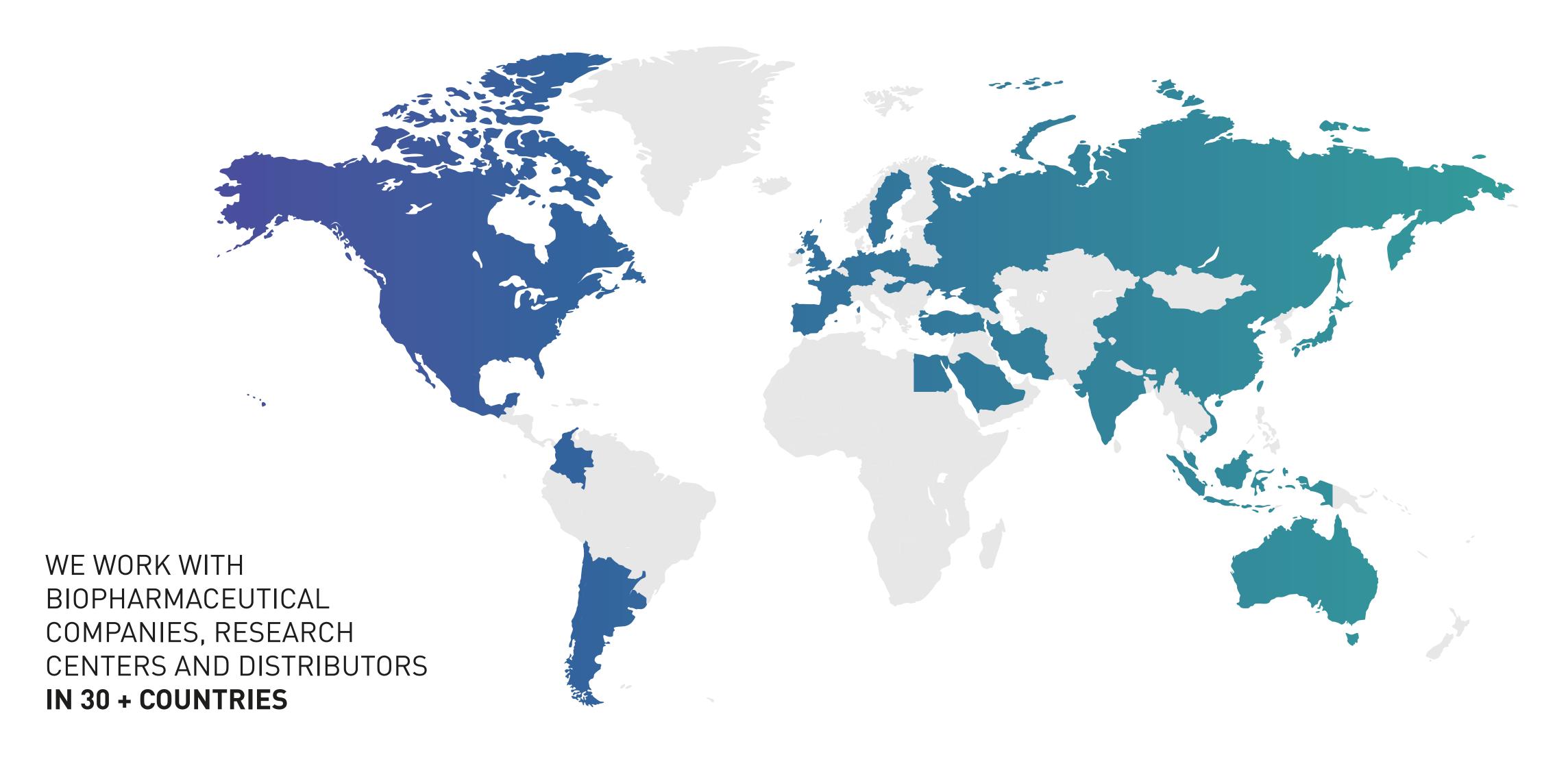
Dental implant

Time dependent

Coatings



i+MED'S GLOBAL FOOTPRINT

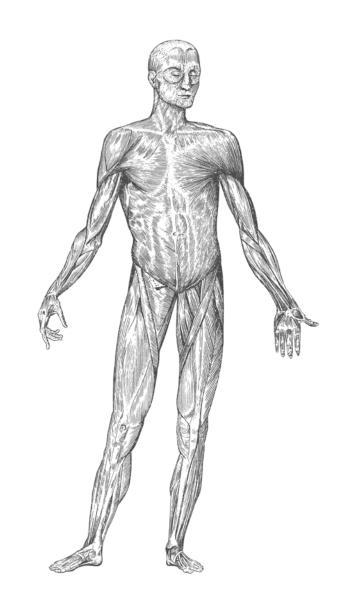




THANK YOU



PARQUE TECNOLÓGICO DE ÁLAVA C/ Albert Einstein 15, nave 15, 01510 Vitoria-Gasteiz, Álava, Spain



"Take care of your body, it is the only place you have to live" (Jim Rohn)

CONTACT US
business@imasmed.com
IMASMED.COM