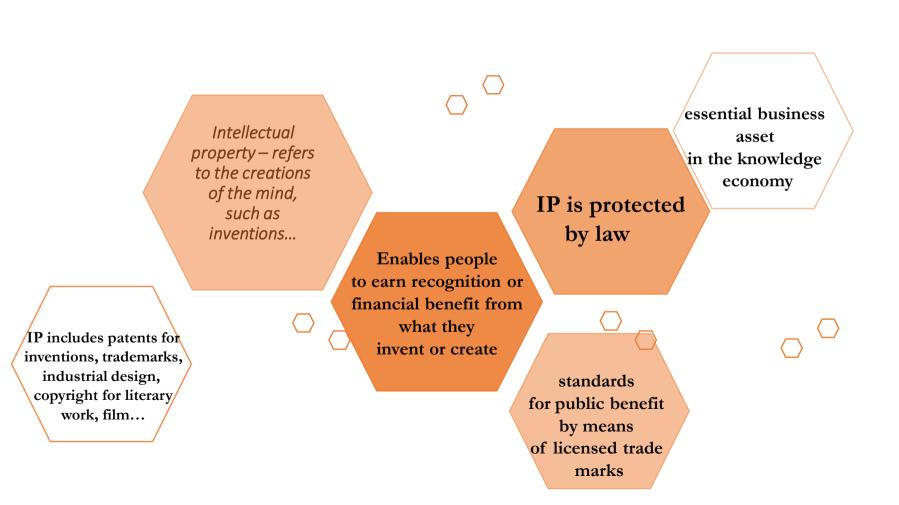
Intellectual Property
Management and
commercialization of
innovative biobased
products

Gabriela Droga Mazovec, PhD
Pisarna za prenos znanja/Knowledge
Transfer Office





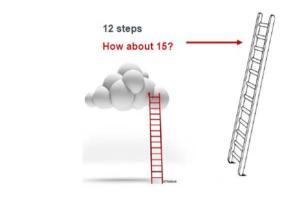
Patent

- Creation of human Intellect
- Patent is a <u>negative right</u>
- Intangible property
- Exclusive rights given by the Govt.
- Comes with <u>limitations</u> and <u>exceptions</u>
- Both product and process patents are allowed
- Time-bound (20 years)
- Territorial

- A legal title which grants the holder
 exclusive right to prevent others from making, using or
 offering for sale, selling or importing a product that infringes
 his patent without his authorisation, in countries for which
 the patent was granted for a limited time (up to 20 years).
- In return, the holder has to disclose the invention to the public.



- Novelty
- Inventive step non obvious to a skilled person in the art!
- Industrial application
- Sufficiency of disclosure
- Clarity of claims



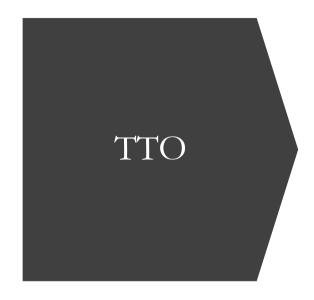


Can be patented

- Process and method
- Machine or apparatus
- Article of manufacture
- Active chemical compounds,
 mechanical solutions, physical mixtures
- Improvements of any of the above

Cannot be patented

- Ideas
- Laws of Nature
- Scientific principles, mathematical rules, methods of treatment, diagnostics and surgery in the human or animal body
 Causing serious prejudice to the environment
 Discovery of a living being
 Discovery of a non living thing occuring in nature





DO NOT PUBLISH YET!

SET an IP Strategy

- Identify IP assets
- Develop plan of protection
- Monitor changes in the law
- Watch key competitors







Stand on the shoulders of giants... Search GOOGLE Scholar

Patent databases:

ESPACENET

PATENTSCOPE

EP REGISTER

SIPO-DS Database of Slovenian patents, models, trademarks

Google Patents

Patent Lens

Patent classifications

International patent classification— IPC

Cooperation patent classification – CPC

IPCCAT - Categorization Assistant in the

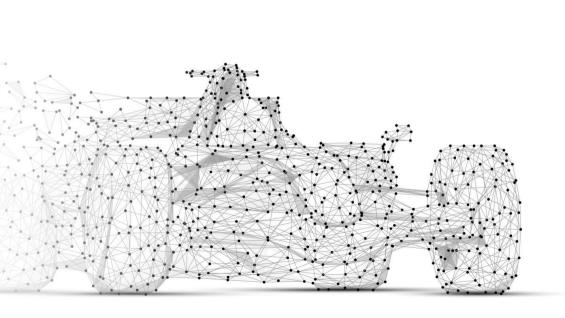
International Patent Classification

The importance of inventions and innovation

Henry Ford revolutionized automobile production with the assembly line.

This made it possible for millions of Americans to afford cars.

 Other important inventions such as the telegraph were important to businesses because they filled a need that other inventions of the day could not.



Patents-a powerful commercial tool searching for sustainability

The bio-based sector is among the key players in the European biobased economy



Bio-based 1,4-Butanediol (bio-BDO)

BioFoam®

Carboxyline® CMI

Desmodur® eco

Lipex®

Rilsan®

Paptic® bags

12

Trade secrets

• Information known only to a narrow circle of people (they are undisclosed, unpublished, "secret")



- Way of protection of trade secrets:
 - Non-disclosure agreements NDA
- Unlimited protection period until they are disclosed to the public.

SEARCH for partners!



Medical technology Functional food

aurrent state of technology aboratory tested/preclinical

Intellectual Property

US 8,754,198 B2 EP2521737 (B1)

Publication

Int Immunopharmacol., 2017, 43, 219-226. Appl Environ Microbiol., 2010, 76, 6928-6932.

Developed by

University of Ljubljana, Faculty of

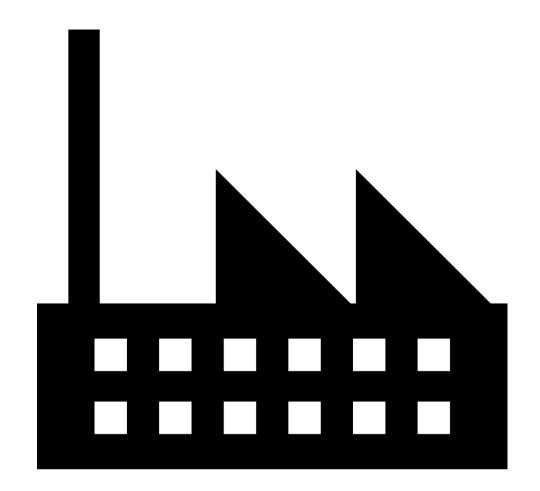


Background

Inflammatory bowel disease (IBD) refers to a group of gastrointestinal disorders characterized by chronic, relapsing inflammatory disorders of the gastrointestinal tract. Crohn's disease and ulcerative colitis are the two main subtypes of IBD.

Description of the Invention

The present invention represents a general platform for the delivery of protein-based substances on the surface of lactobacteria to the gastrointestinal tract. The invention specifically describes modified lactic U CAN
establish a
private
company!

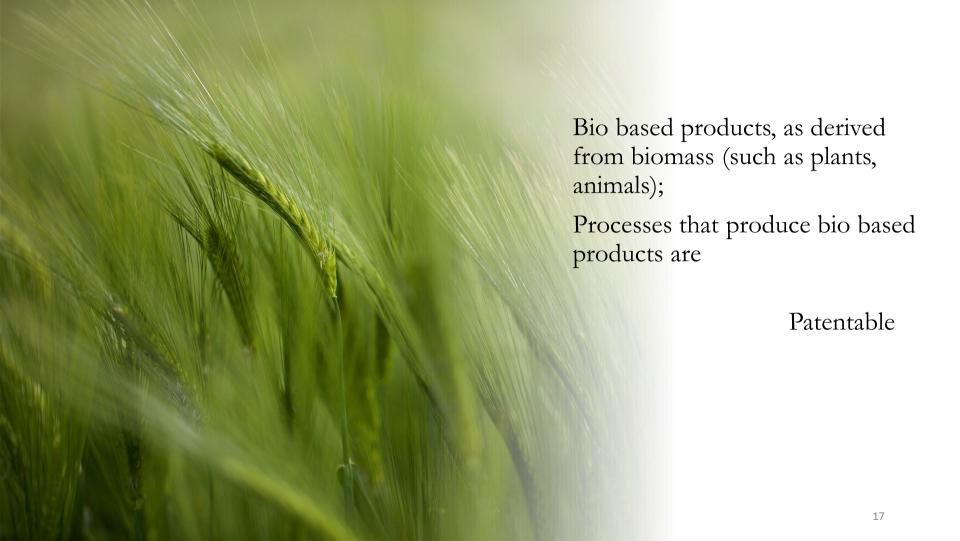




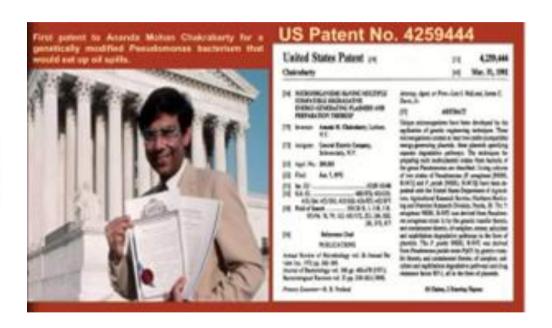
Diversity

Possible ethical issues

Plasticity



First Patent on a genetically modified microrganism



Can plants be patented? YES

• If the technical feasibility of the invention is not confined to a particular plant variety.

Rule 27(b) EPC

Also

 Microbiological or other technical process, or a product obtained by means of such a process other than a plant variety.

Rule 27(c) EPC

Example:

- Not allowable: A plant variety such as durum wheat type wh222 deposited at a seed depository.
- Allowable: A transgenic plant and its seeds containing an exogenous bacterial gene encoding Bt toxin.



Genetic resources

Genetic resources are <u>not intellectual property</u>

-not creations of the human mind and thus cannot be directly protected as intellectual property.

However, *inventions based on or developed using genetic resources* (associated with traditional knowledge or not) may be patentable or protected by plant breeders' rights.

Traditional knowledge complex; generally not allowed

EP-B-0 436 257 - "Neem" (insecticide) patent:
 Revoked in opposition in 2001- Lack of novelty
 Appealed by proprietor
 Revocation confirmed (T416/01)







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Operacijo delno financira Evropska unija iz Evropskega sklada za regionalni razvoj ter ministrstvo za izobraževanje, znanost in šport.



