Računalniško podprte predstavitve

B. Boh, 2004

Prednosti računalniško podprtih predstavitev

- Kombinacije besedil in grafike pritegnejo pozornost
- Ilustracije, fotografije, animacije in video vizualizirajo vsebino
- Dobro načrtovan in urejen nastop
- Možnost sprememb in preurejanja do zadnjega trenutka
- Izpisi za poslušalce

Pomanjkljivosti in možne težave

- Odvisnost od računalniške opreme
- Problemi s kompatibilnostjo sistemov (verzije programske opreme, čšž, ...)
- Potrebna delna zatemnitev prostora
- Med predstavitvijo je težko spreminjati vrstni red zaslonskih slik

Govor

- Govornik je vedno obrnjen proti poslušalcem
- Prost govor s spremljanjem ključnih besed na zaslonu (branje z lista ni sprejemljivo)
- Govoriti dovolj glasno in počasi
- Spremljati dogajanje v dvorani

Besedilo

- Namesto polnih stavkov le ključne besede
- Največ 7 vrstic naštevanja na enem zaslonu
- Najmanjša velikost črk: 20. Priporočljivo 32 ali 28, izjemoma 24.
- Naslovi poudarjeni, velikost 36 do 48.
- Priporočljiv le en tip pisave za vso predstavitev. Times new roman ali Arial.
- Ustrezen animacijski učinek za prikazovanje vrstic

Nestrezen animacijski učinek

- Namesto polnih stavkov le ključne besede
- Največ 7 vrstic naštevanja na enem zaslonu
- Najmanjša velikost črk: 20. Priporočljivo 32 ali 28, izjemoma 24.
- Naslovi poudarjeni, velikost 36 do 48.
- Priporočljiv le en tip pisave za vso predstavitev. Times new roman ali Arial.
- Ustrezen animacijski učinek za prikazovanje vrstic

Uporaba barv

KONTRASTNOST

svetlo na temnem ozadju

DOBRA KONTRASTNOST

BACKGROUND: ONE COLOR

DOBRA KONTRASTNOST

BACKGROUND: FILL EFFECTS – GRADIENT - HORIZONTAL

DOBRA KONTRASTNOST

BACKGROUND: FILL EFFEECTS – GRADIENT – FROM TITLE

POUDARJEN NASLOV

- NEVTRALNO BESEDILO
- PRVA VRSTICA
- DRUGA VRSTICA
- TRETJA VRSTICA

Prednosti mikrokapsulirnih fitofarmacevtskih sredstev

- usmerjeno delovanje
- kontrolirano sproščanje učinkovin
- manjša poraba aktivnih snovi
- manjše izgube zaradi izhlapevanja in izpiranja
- varnejše rokovanje s sredstvom

KONTRASTNOST

temno na svetlem ozadju

BACKGROUND: FILL EFFECTS – GRADIENT - DIAGONAL DOWN

KONTRASTNOST

na ozadju s prelivom

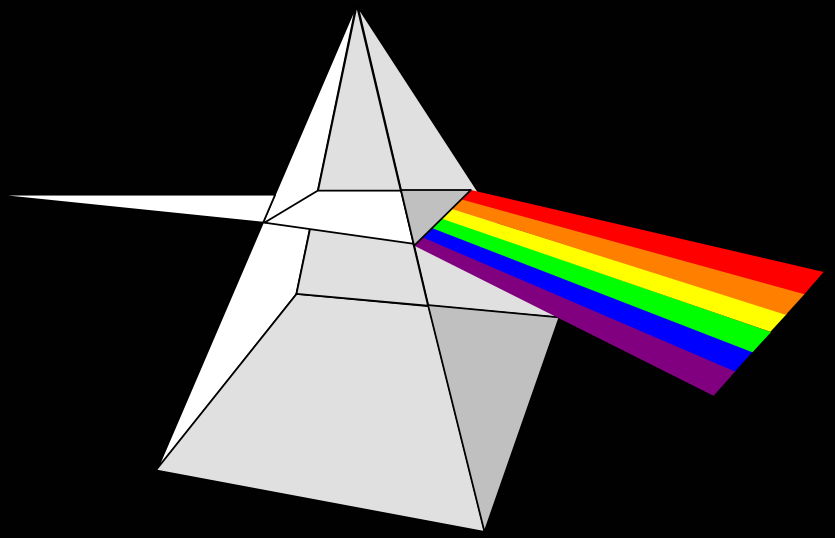
KONTRASTNOST

na ozadju s prelivom

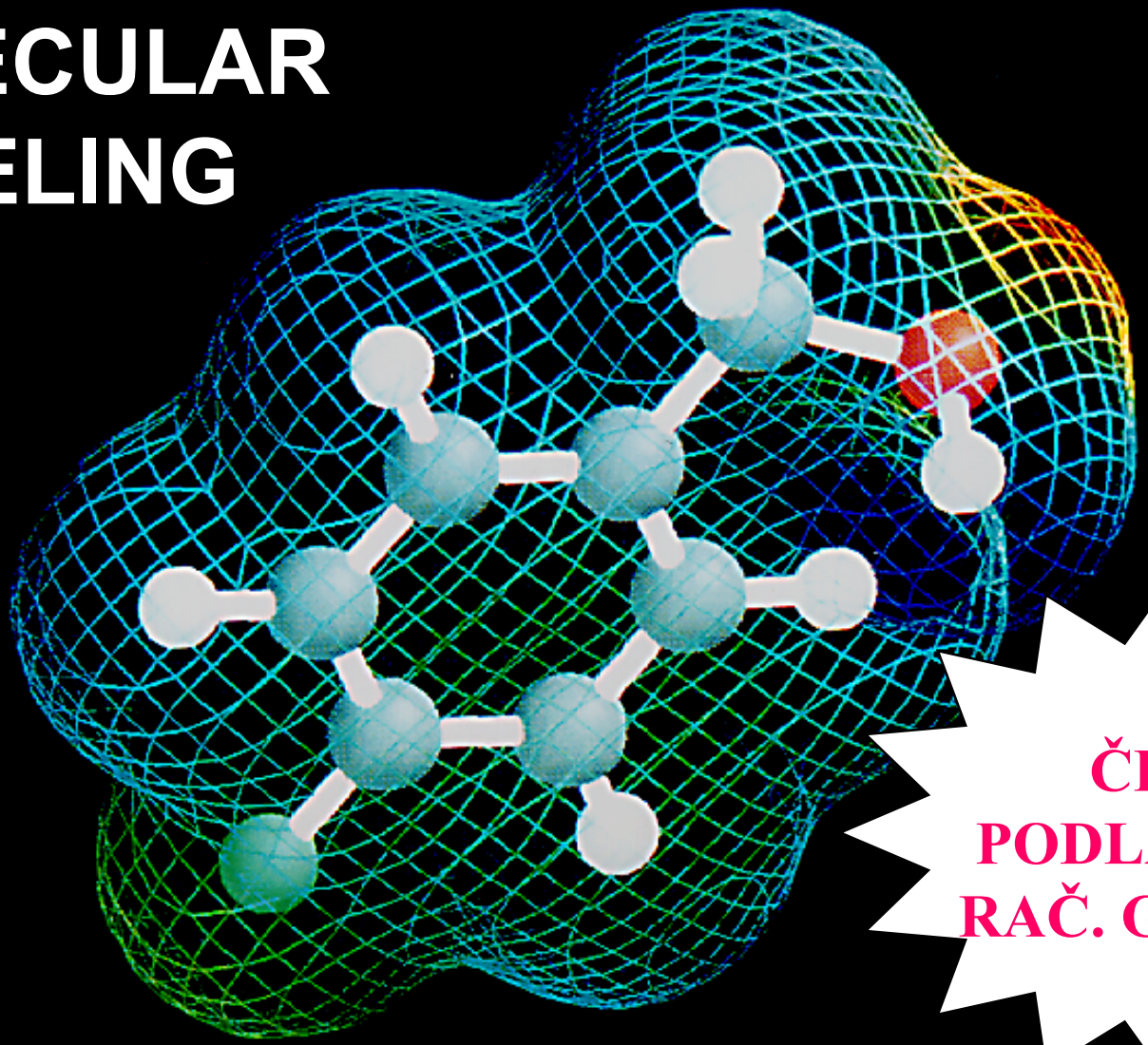
OPTIČNA PRIZMA:
KOMPONENTE SVE
ZAZNAVAMO KOT RAZL
(monokromatska svet

ČRNA PODLAGA ZA VEČBARVNI TEKST

- vijolična 400 nm
- modra 450 nm
- zelena 525 nm
- rumena 600 nm
- oranžna 625 nm
- rdeča 700 nm



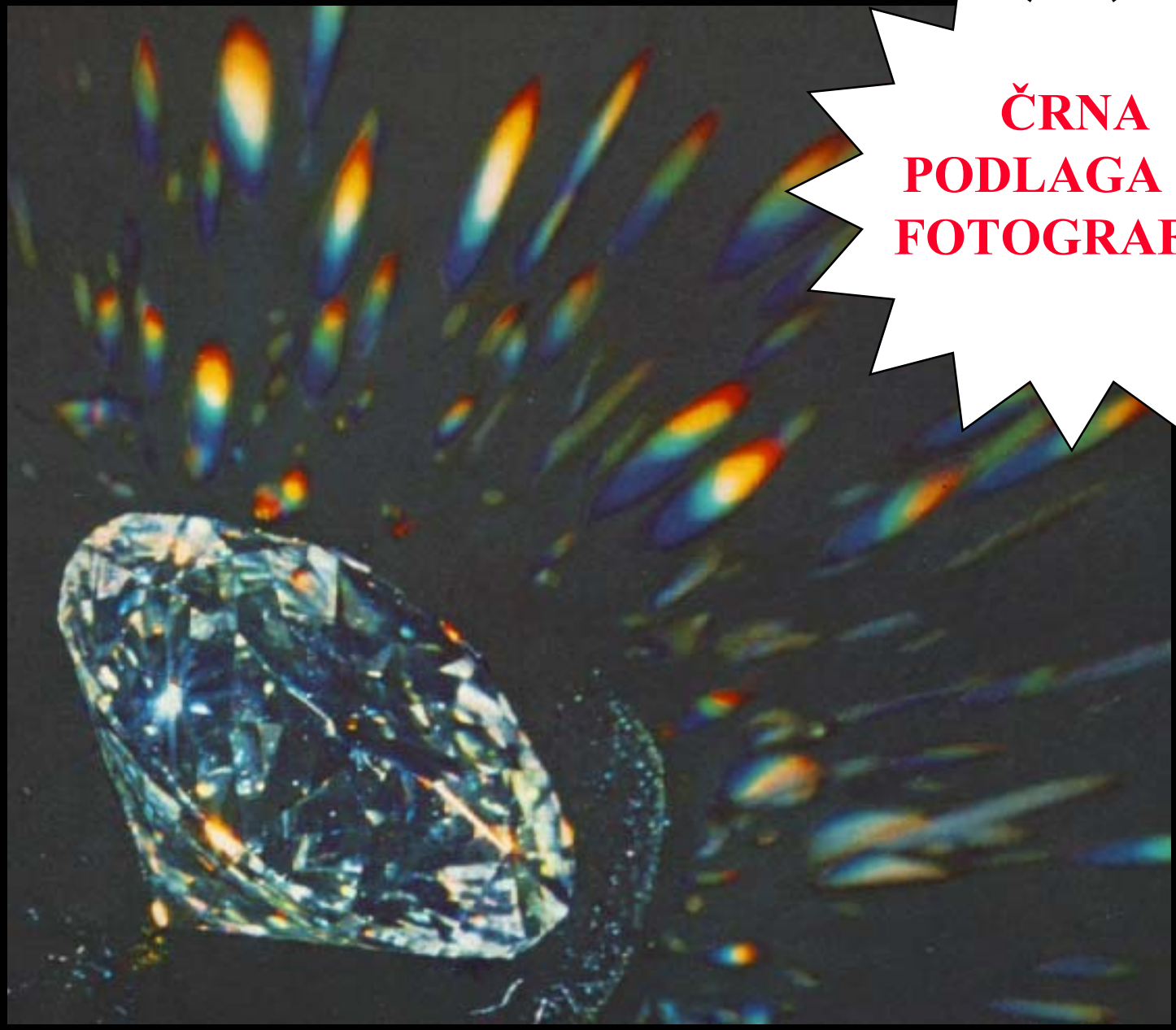
MOLECULAR MODELING



ČRNA PODLAGA ZA RAČ. GRAFIKO

Distribution of electronic density in a molecule of 4-fluoro-benzyl alcohol (STRUCTURE-ACTIVITY RELATIONSHIP STUDIES)

4.5 KARATNI DIAMAND: ODBOJ IN RAZKLON SVETLOBE



ČRNA PODLAGA ZA FOTOGRAFIJE

OPEN-AREA
PLANTATIONS
ČRNA
PODLAGA ZA
FOTOGRAFIJE
TESTING

Database producers

BIOSIS

- BIOSIS
- Cambridge Scientific Abstracts
- Chemical Abstracts Service
- Derwent Informa
- The Royal So
  Chemistry
- US National
  Medicine
- Etc.

USKLAJENOST PODLAGE Z BARVO SLIKE

MICROENCAPSULATION:
intensive, dynamic
PISANO OZADJE JE TEŽAVNO ZA KONTRASTIRANJE
• strong basic research
• rapid development of technologies, numerous applications
• diverse and competitive market of specialised microencapsulated products
• rapid growth of publications

BEST EFFECTS ON:
mites, aphids, small insects
PISANO OZADJE JE TEŽAVNO ZA KONTRASTIRANJE
KROPIN-6, ready-to-use aqueous solution
KROPIN-30, aqueous concentrate
KROPIN-WP, wettable powder

MICROENCAPSULATED AN
REPELLENT "AROM

PISANO OZADJE JE TEŽAVNO ZA KONTRASTIRANJE

- based on essential oils
- activity against deer and rabbits (vineyards, orchards, fields, forests, gardens)
- formulations: (1) water suspensions for spraying, (2) coatings for tree bark, (3) impregnated/coated solid carriers - aluminium foil, paper and non-woven fabrics

BIOINFORMATICS

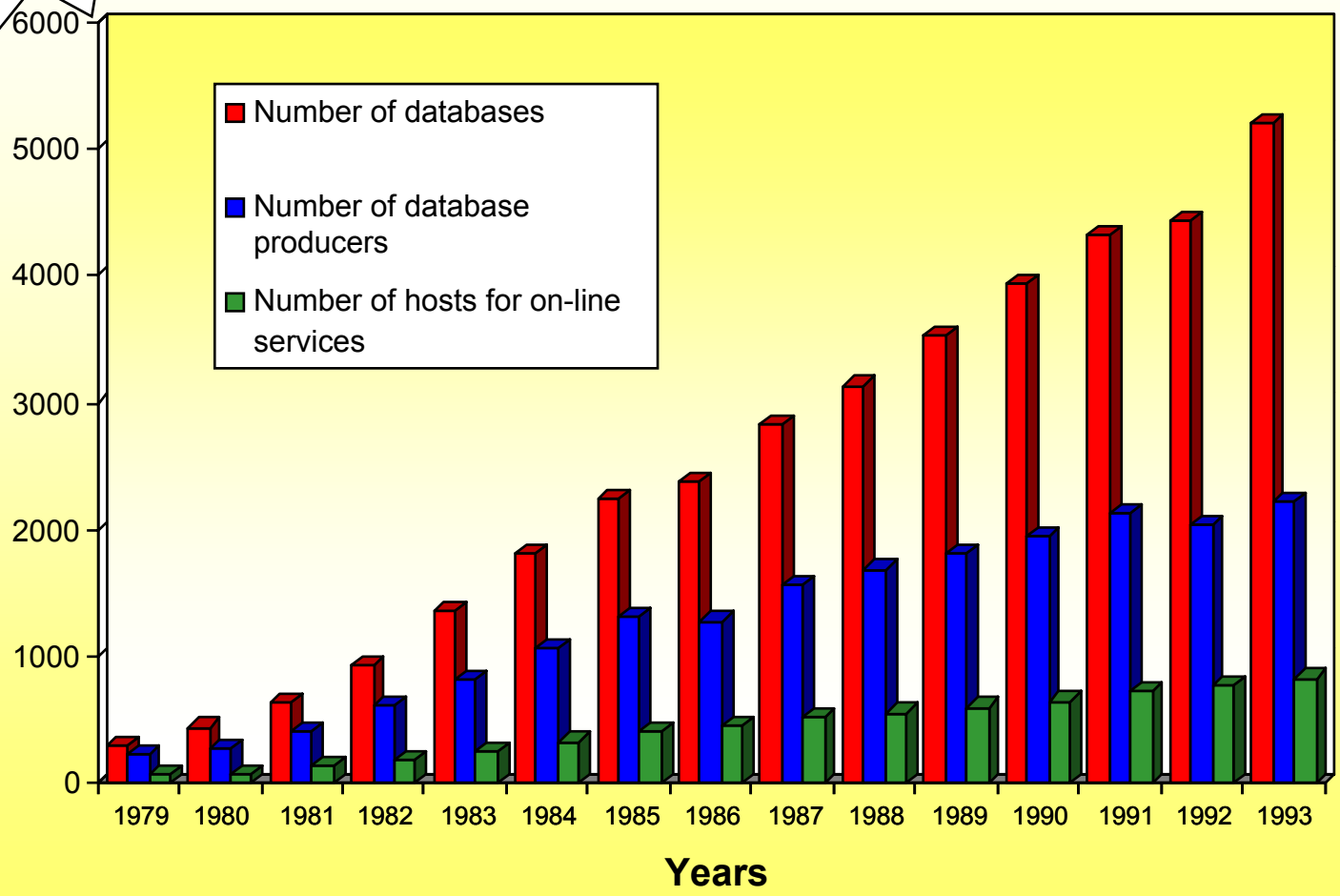
IZRAZITA OZADJA: UPORABI REDKO, NPR. ZA ZAČETEK

Bojana Boh
University of Ljubljana
Faculty of Science and Engineering
Dept. of Chemical Education and Informatics
BOJANA.BOH@UNI-LJ.SI

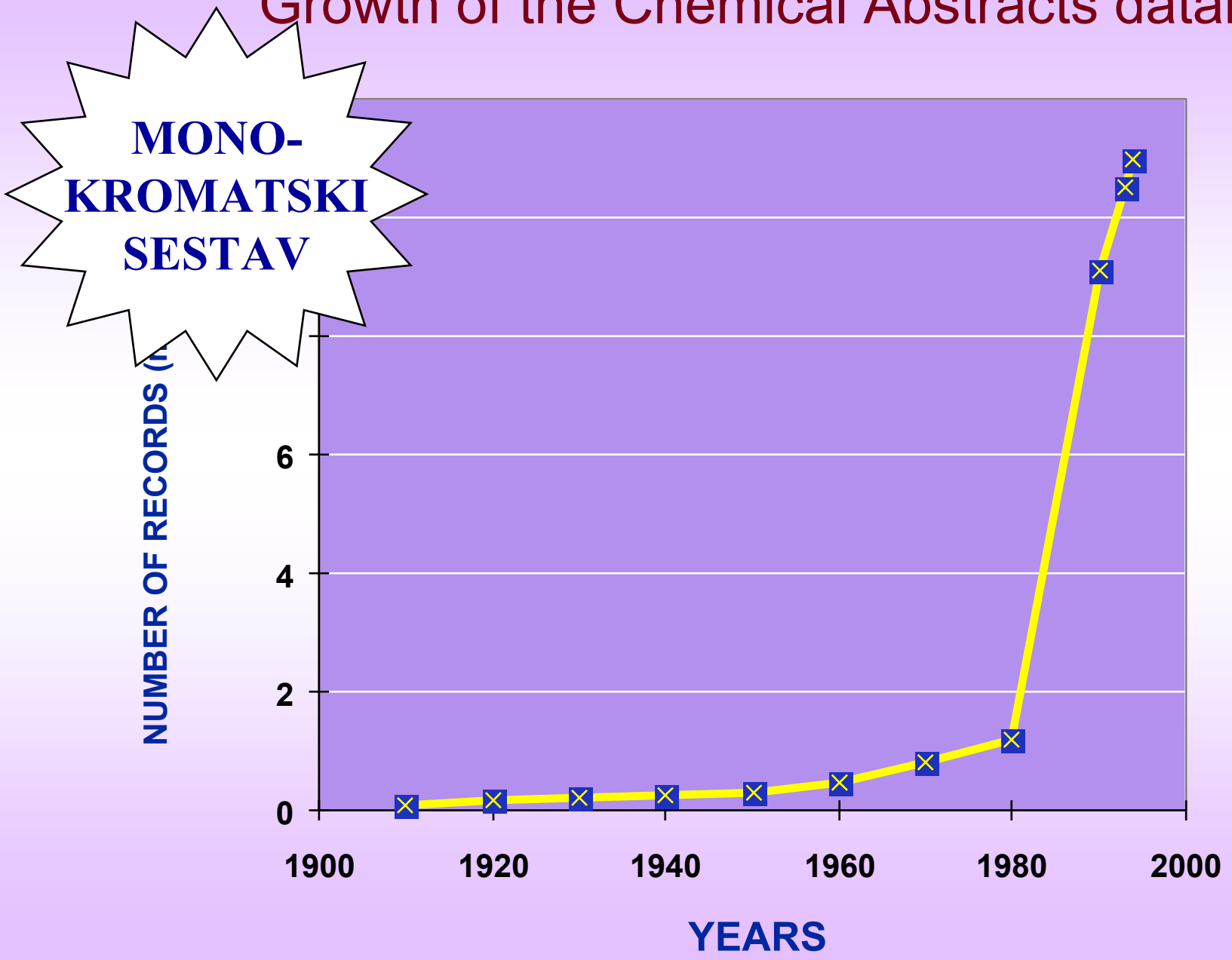
ZAKLJUČKI
IZRAZITA
OZADJA:
NPR. ZA
NOVO POGLAVJE

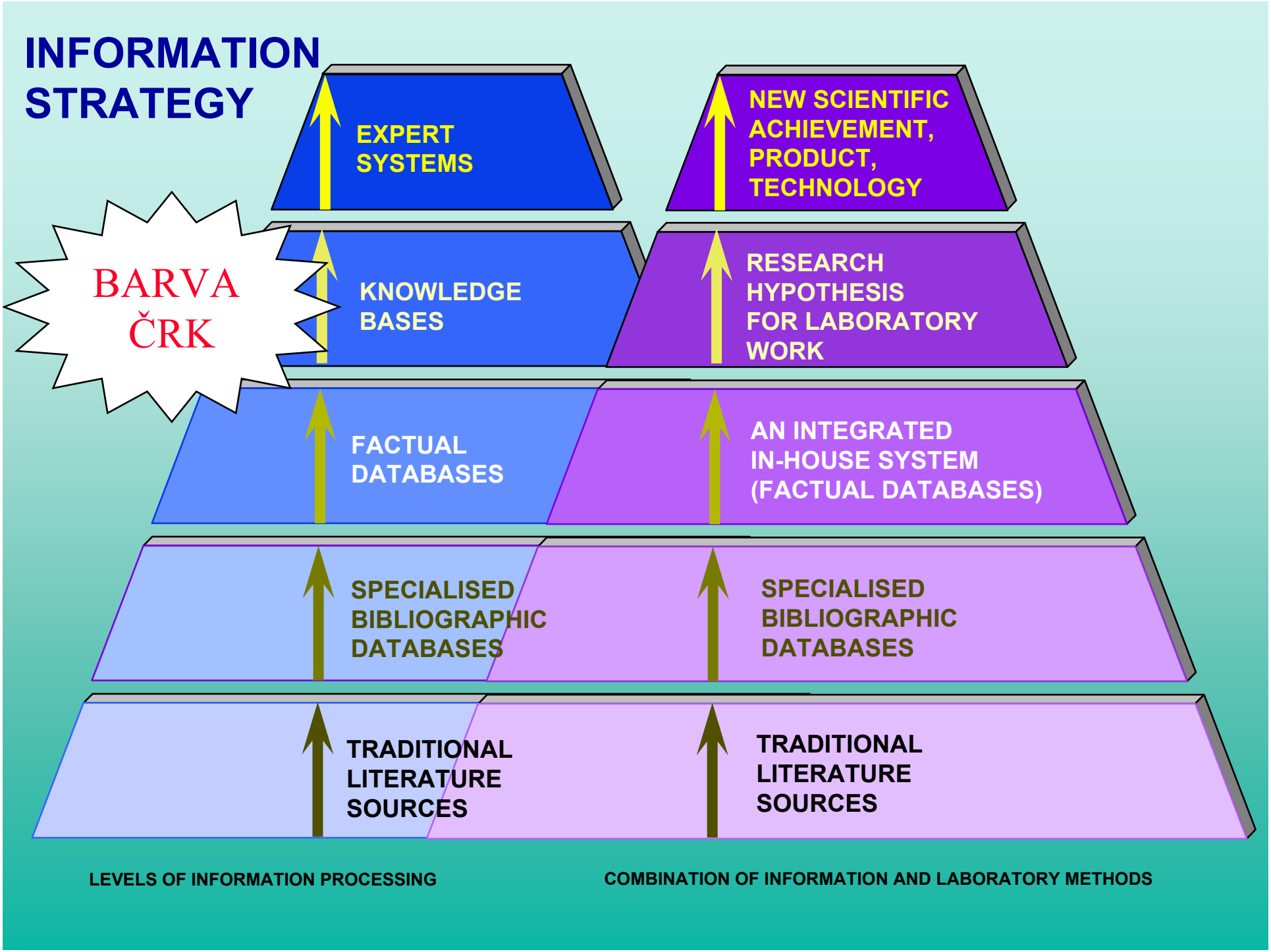
NASPROTNO SENČENJE

GROWTH OF INFORMATION INDUSTRY



Growth of the Chemical Abstracts database




INFORMATION STRATEGY
EXPERT SYSTEMS
NEW SCIENTIFIC ACHIEVEMENT, PRODUCT, TECHNOLOGY
BARVA ČRK
KNOWLEDGE BASES
RESEARCH HYPOTHESIS FOR LABORATORY WORK
FACTUAL DATABASES
AN INTEGRATED IN-HOUSE SYSTEM (FACTUAL DATABASES)
SPECIALISED BIBLIOGRAPHIC DATABASES
SPECIALISED BIBLIOGRAPHIC DATABASES
TRADITIONAL LITERATURE SOURCES
TRADITIONAL LITERATURE SOURCES
LEVELS OF INFORMATION PROCESSING
COMBINATION OF INFORMATION AND LABORATORY METHODS

1. CHEMICAL PESTICIDES

- **ADVANTAGES**
- **high effectiveness**
- **fast action**
- **low price**

BARVA
ZA PRIMERJAVE

- **ADVERSE EFFECTS**
- **high acute and chronic toxicity**
- **long pre-harvest period**
- **environmental pollution**
- **pest resistance**

2. BIOLOGICAL PESTICIDES

ADVANTAGES

- environmentally friendly
- selective to target pests

ADVERSE EFFECTS

- slower action
- sensitive to climatic changes
- educated users required

3. PHYSICAL PESTICIDES (OILS)

ADVANTAGES

- **almost non-toxic**

ADVERSE EFFECTS

- **persistent oily film affects plant physiology**

MATERIAL IN METODE

KLJUČNE BESEDE

MIKROKAPSULIRANJE

- Repelent **DAPHNE** (zmes: vanilin, heliotropin, ciklamaldehid, metilnonil acetaldehid, citronelol, dimetilftalat …)
- modificiran postopek *in situ* polimerizacije aminoaldehidnih smol z uporabo stiren-maleinanhidrid kopolimernega modifikatorja (Knez, 1988, SI A 8411319).

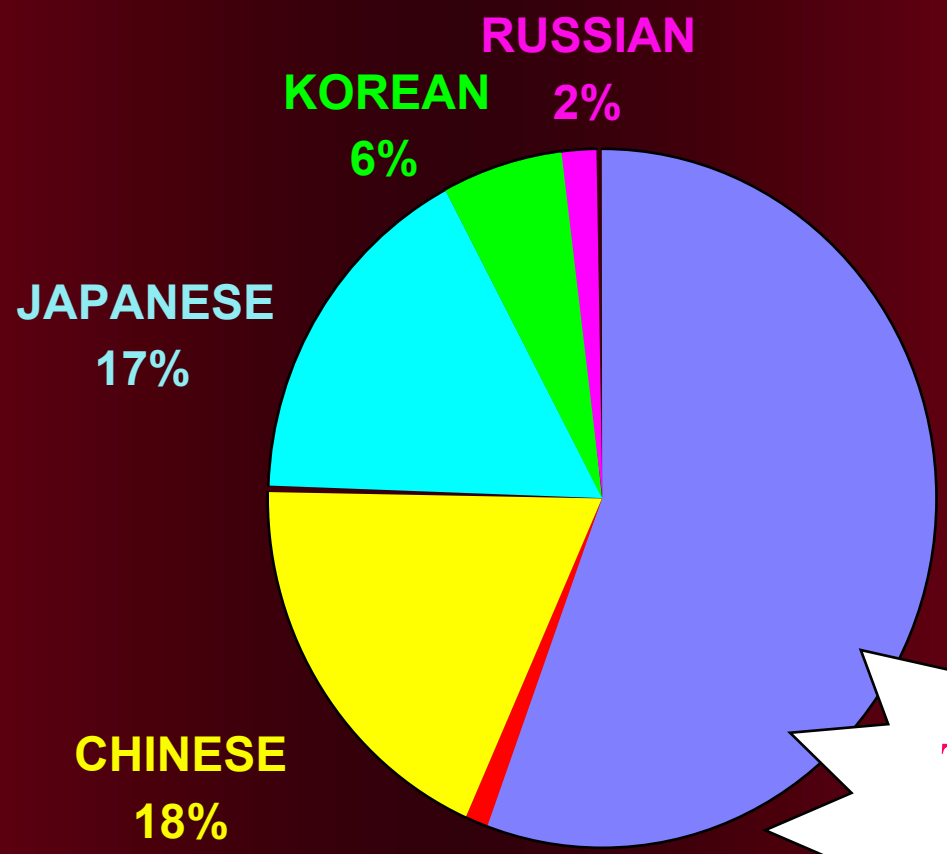
PRIPRAVA FORMULACIJ

PODNASLOVI

- **vodne suspenzije za škropljenje:** seriji DAF 100 in DAF 50
- **mase za premazovanje dreves:** DAF CMC
- **formulacije na trdnih nosilcih:** aluminijeva folija, papir, netkane tekstilije različne gramature (Kukovič in Knez, 1995, SI 95/00019).

TRENDS:

BIBLIOGRAPHIC SEGMENT ON GANODERMA

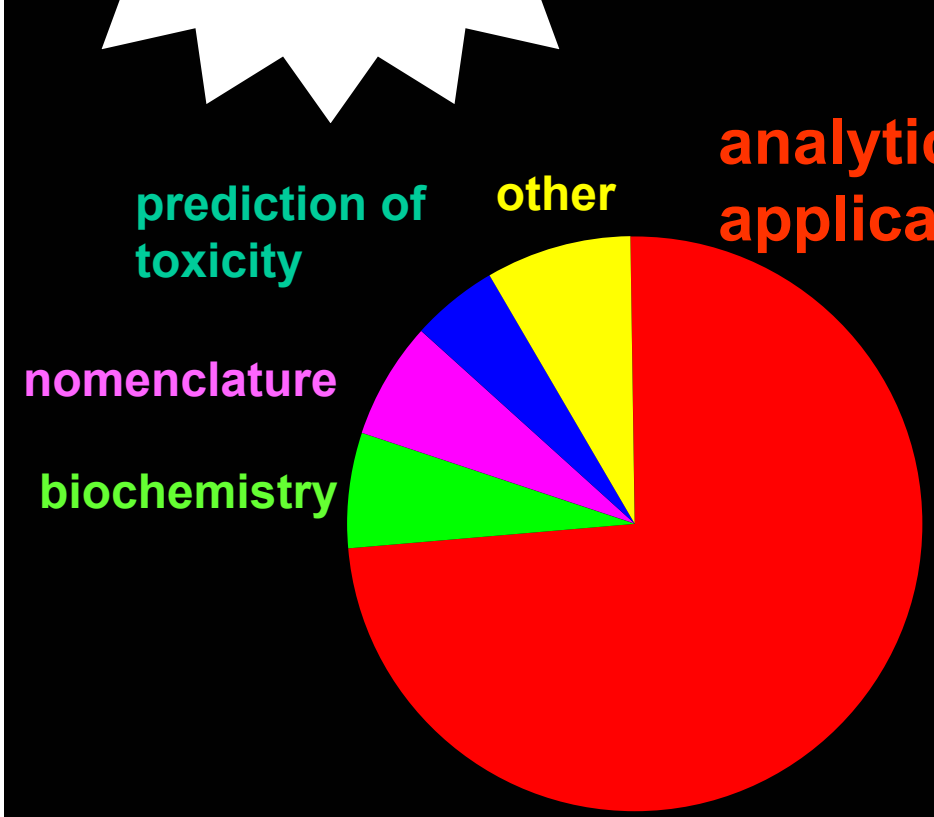


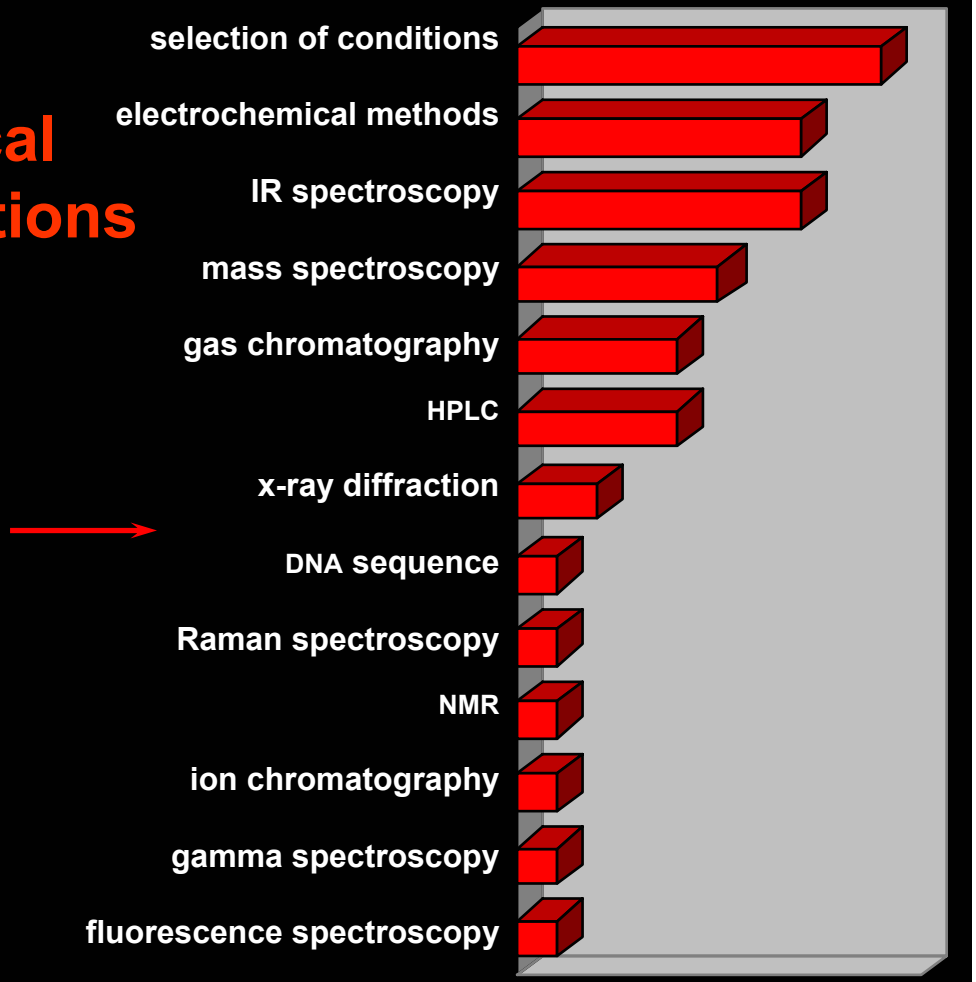
DATABASE STRUCTURE BY DOCUMENT LANGUAGE

TEHNIČNA UPORABA BARV

systems in research

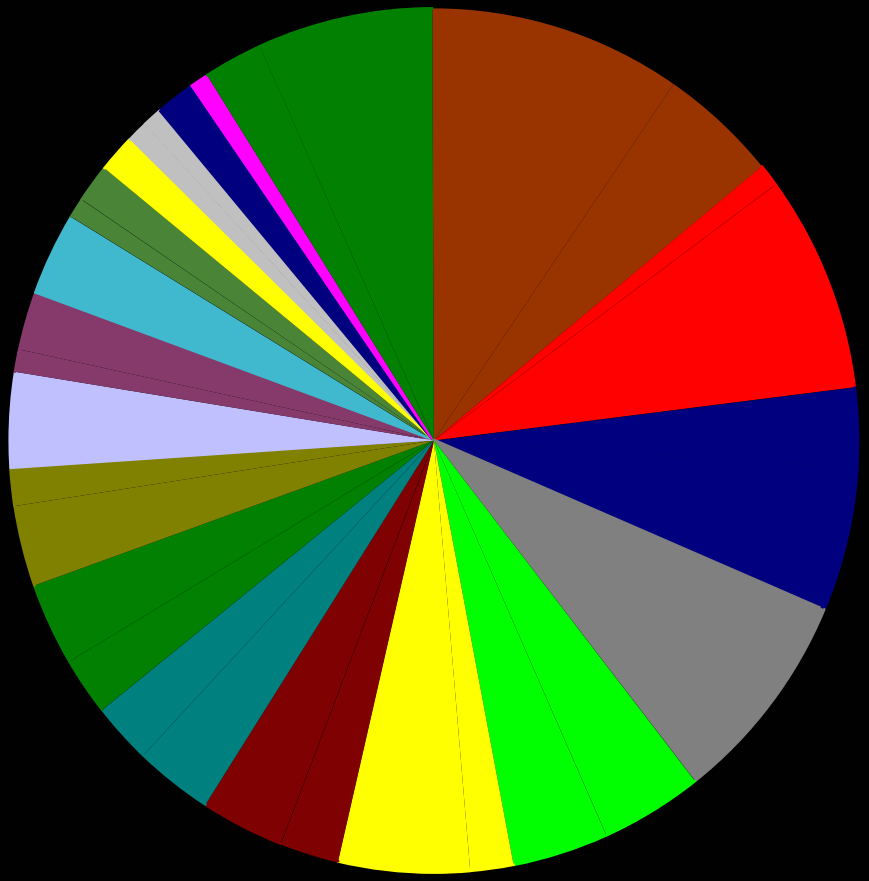
TEHNIČNA UPORABA BARV





Expert systems in i

Slaba TEHNIČNA
UPORABA
BARV



- iron and steel industry
- design of chemical processes
- metal industry
- nuclear reactors
- waste management
- corrosion protection
- welding technologies
- production of polymers
- petrochemistry
- mining
- development of catalisers
- production of chemicals
- agriculture
- biotechnology
- development of new materials
- pulp and paper industry
- construction
- pharmaceutical industry
- other industry

BAKTERIJSKI

ČEBELJI

JOJOBA

KANDELILA

KARNAUBA

LANOLIN

MONTANSKI

OZOKERITNI

SPERMACET

ŠOTNI

Vir:

rastlinski

BARVE V PRIMERJAVAH

BAKTERIJSKI

ČEBELJI

JOJOBA

KANDELILA

KARNAUBA

LANOLIN

MONTANSKI

OZOKERITNI

SPERMACET

ŠOTNI

Vir:

rastlinski

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BAKTERIJSKI

ČEBELJI

JOJOBA

KANDELILA

KARNAUBA

LANOLIN

MONTANSKI

OZOKERITNI

SPERMACET

ŠOTNI

Vir:

rastlinski

živalski

bakterijski

BAKTERIJSKI

ČEBELJI

JOJOBA

KANDELILA

KARNAUBA

LANOLIN

MONTANSKI

OZOKERITNI

SPERMACET

ŠOTNI

Vir:

rastlinski

živalski

bakterijski

mineralni

ČEBELJI
JOJOBA
KANDELILA
KARNAUBA
LANOLIN
MONTANSKI
OZOKERITNI
SPERMACET
ŠOTNI

Agregatno stanje:

- trdno
- tekoče

ČEBELJI
JOJOBA
KANDELILA
KARNAUBA
LANOLIN
MONTANSKI
OZOKERITNI
SPERMACET
ŠOTNI

Pridobivanje:

- ekstrakcija
- taljenje
- strganje

THE EU LIST OF TOXIC AND DANGEROUS SUBSTANCES AND MATERIALS (78/319/EEC-ANNEX)

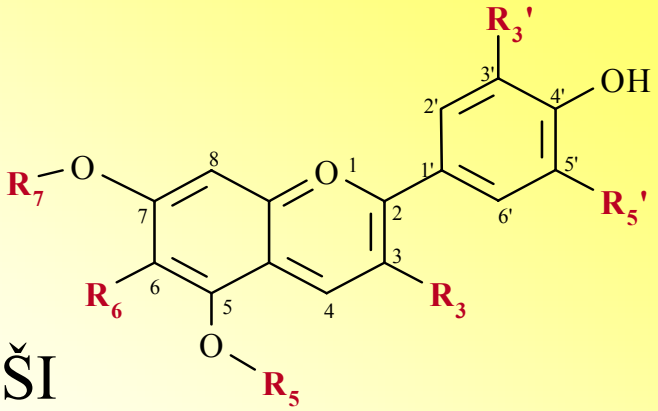
- metals and metal compounds
- other inorganic compounds
- organic compounds
- mixed group

19. Ethers
20. Chemical laboratory materials
21. Asbestos (dust and fibres)
22. Selenium; selenium compounds
23. Tellurium; tellurium compounds
24. Aromatic polycyclic compounds (with carcinogenic effects)
25. Metal carbonyls
26. Soluble copper compounds
27. Acids and/or substances in [illegible] treatment and finishing [illegible]

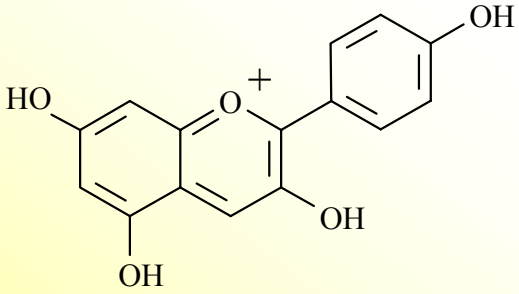
KATEGORIZACIJA

KEMIJSKA ZGRADBA ANTOCIANINOV

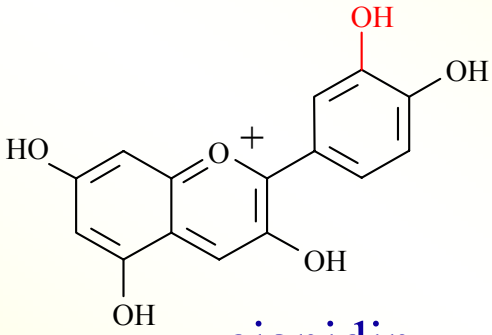
POUDAREK RAZLIK



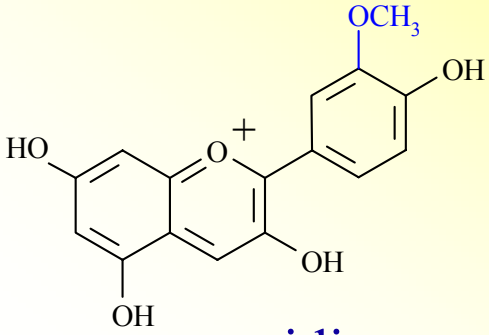
NAJPOGOSTEJŠI ANTOCIANIDINI:



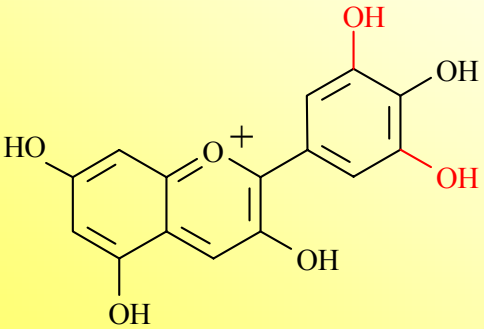
pelargonidin



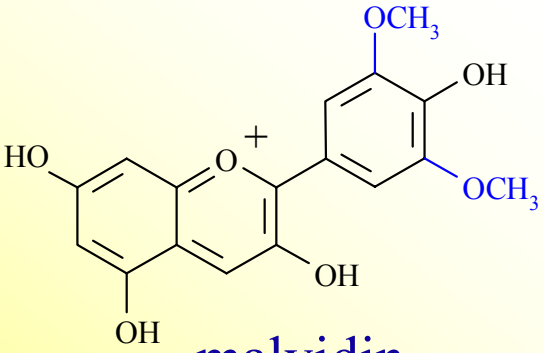
cianidin



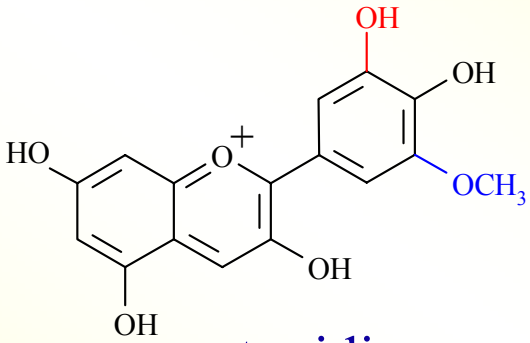
peonidin



delfinidin



malvidin



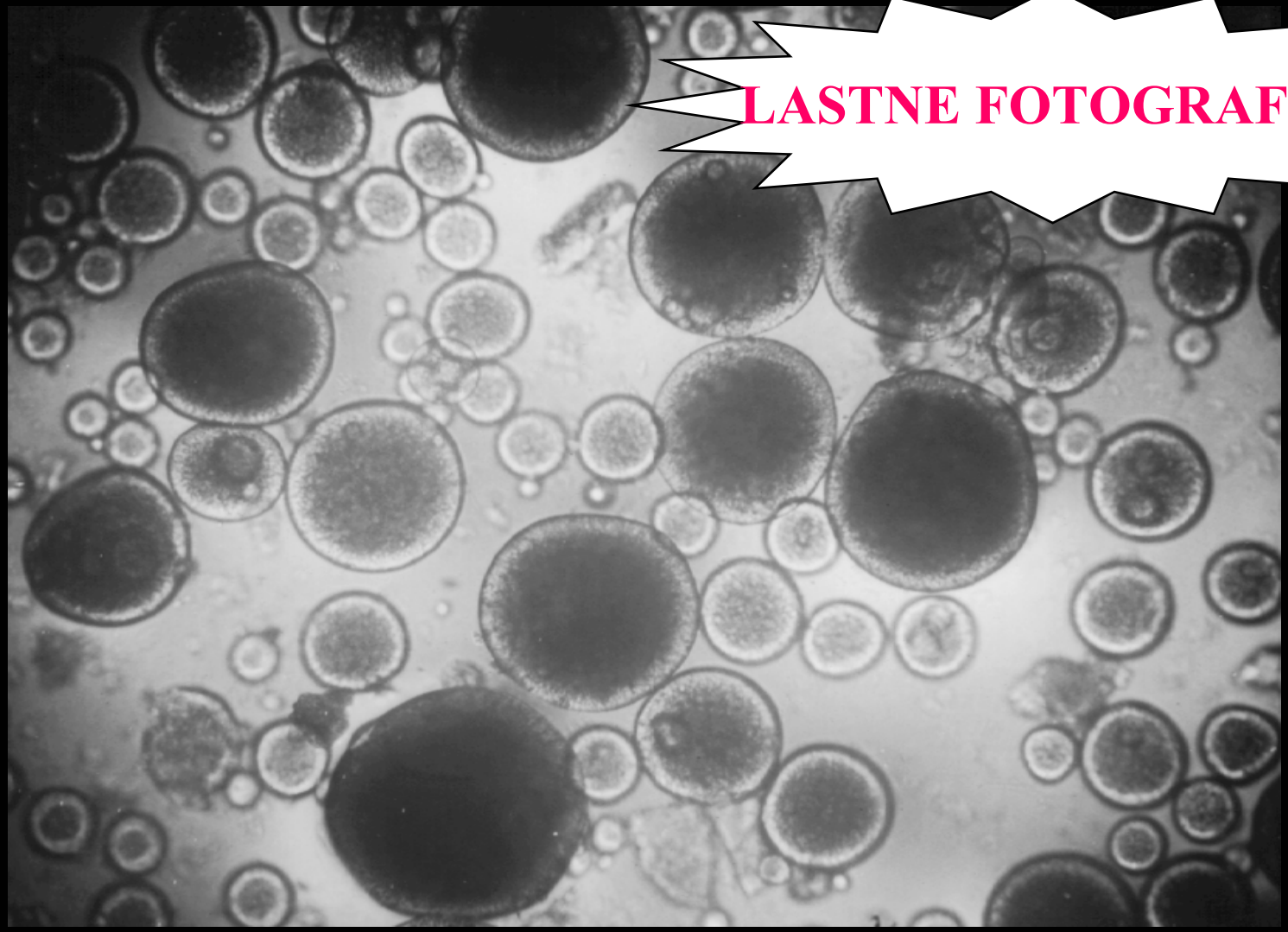
petunidin

Fotografije

- Pozor: avtorske pravice, citiranje
- Lastne digitalizirane fotografije
- Fotografije z interneta
- Fotografije z multimedijskih enciklopedij in drugih e-publikacij
- Skenirane fotografije iz tiskanih virov

Result: An improved microencapsulation process by **interfacial polymerisation**

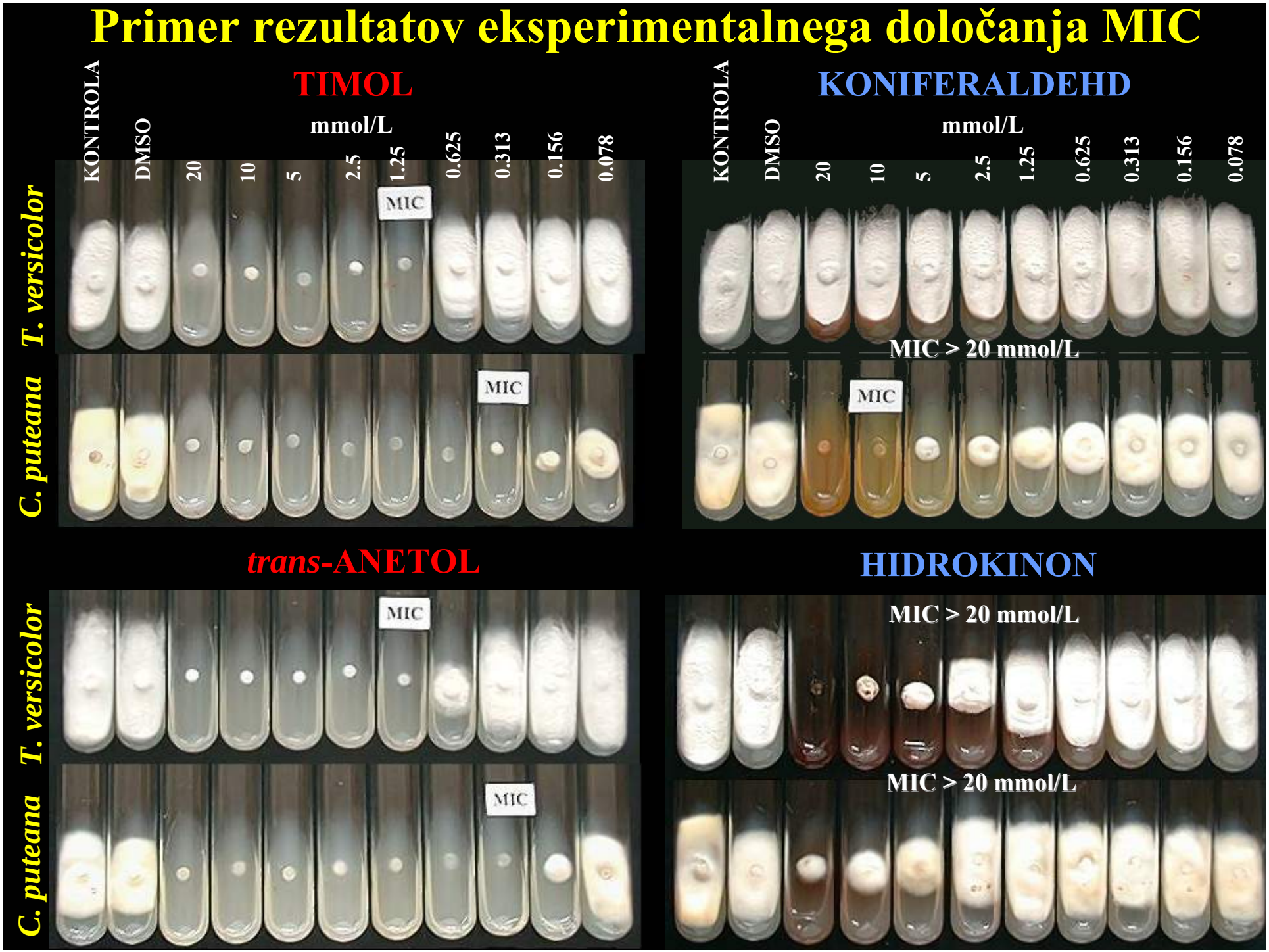
(crosslinking of proteins, water/oil system)



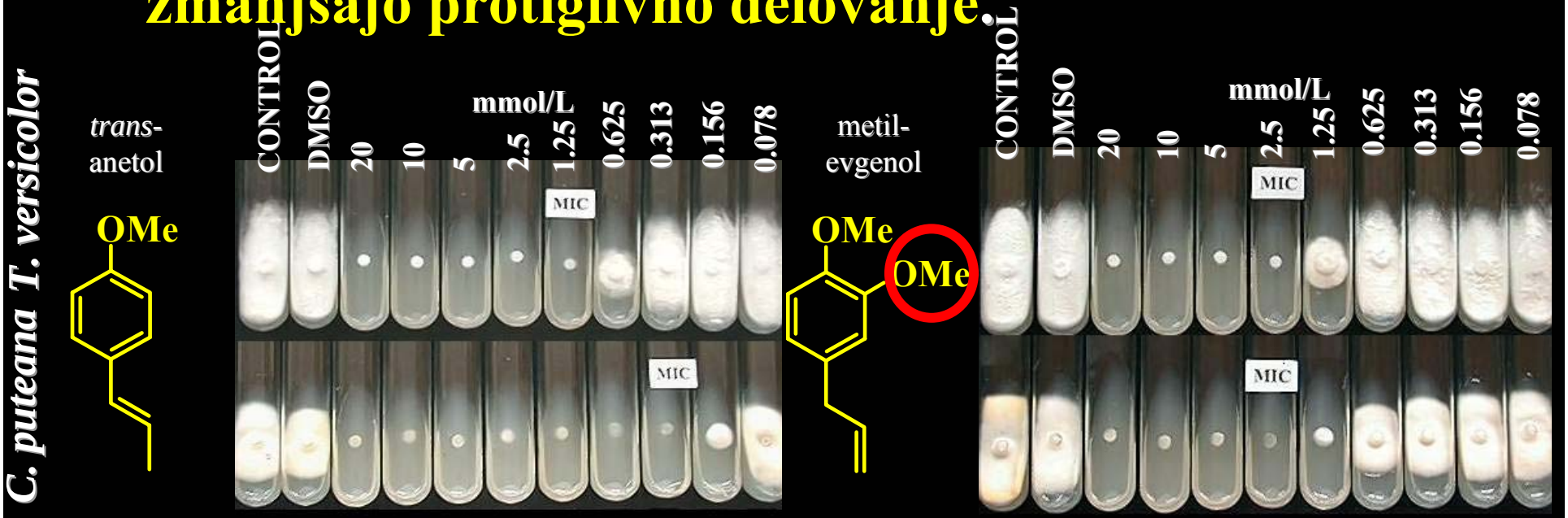
LASTNE FOTOGRAFIJE

Basic research linked with Ph.D. work

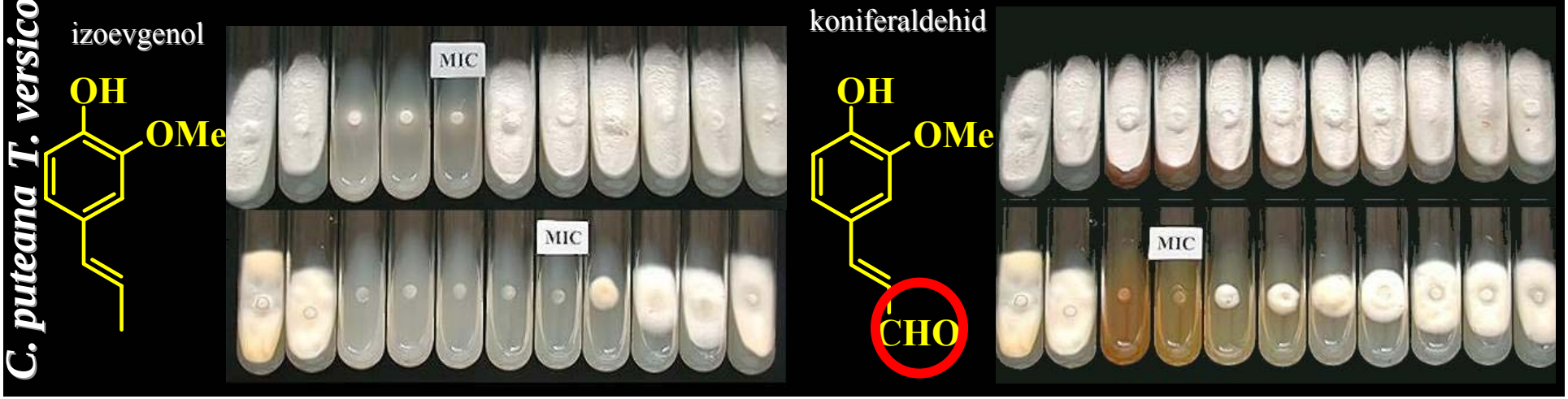
Primer rezultatov eksperimentalnega določanja MIC



- **Skupine na drugem mestu aromatskega obroča zmanjšajo protiglivno delovanje.**



- **O-skupine na četrtem mestu aromatskega obroča zmanjšajo protiglivno delovanje.**



II. TESTNI ORGANIZMI: dve lesni glivi

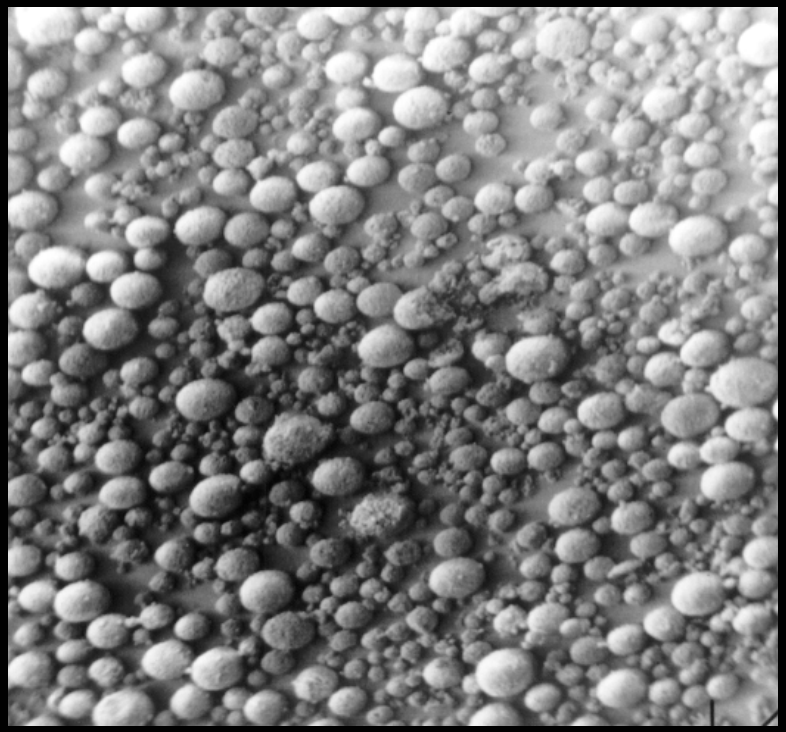
Ime:	***Trametes versicolor*** **pisana ploskocevka**	***Coniophora puteana*** **kletna goba**
Metabolizem	Razgrajuje **lignin** in povzroča belo trohnobo lesa	Razgrajuje **celulozo** in povzroča rjavo trohnobo lesa
Ekstracelularni encimi:	**Lakaza** katalizira oksidacijo širokega spektra fenolov in drugih nefenolnih organskih spojin	**Celobioza dehidrogenaza** (CDH) katalizira oksidacijo celodekstrinov do laktonov

PRIMERJAVE

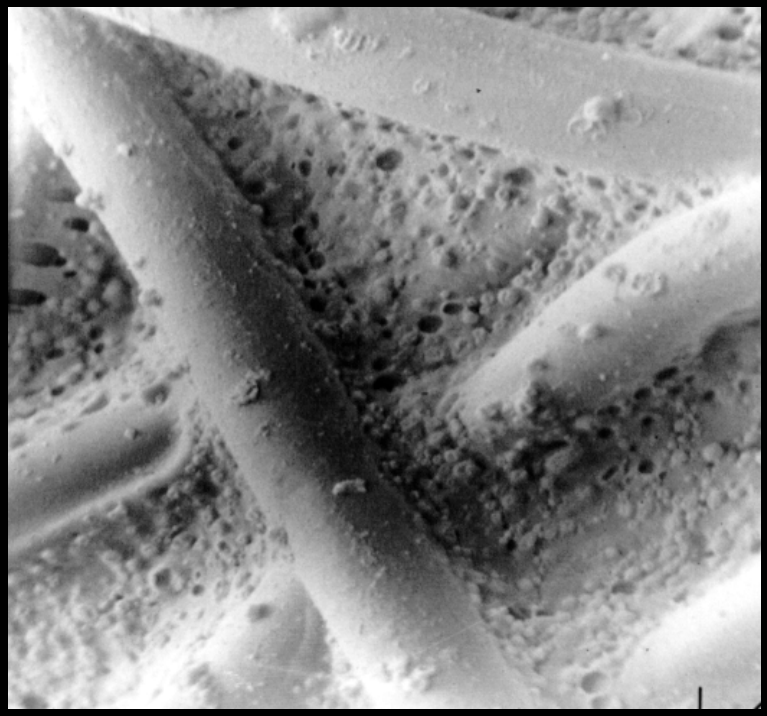
Microencapsulated Phase Change Materials (PCMs)

MIKRO NIVO

Granules of microencapsulated PCMs (SEM, 190x).

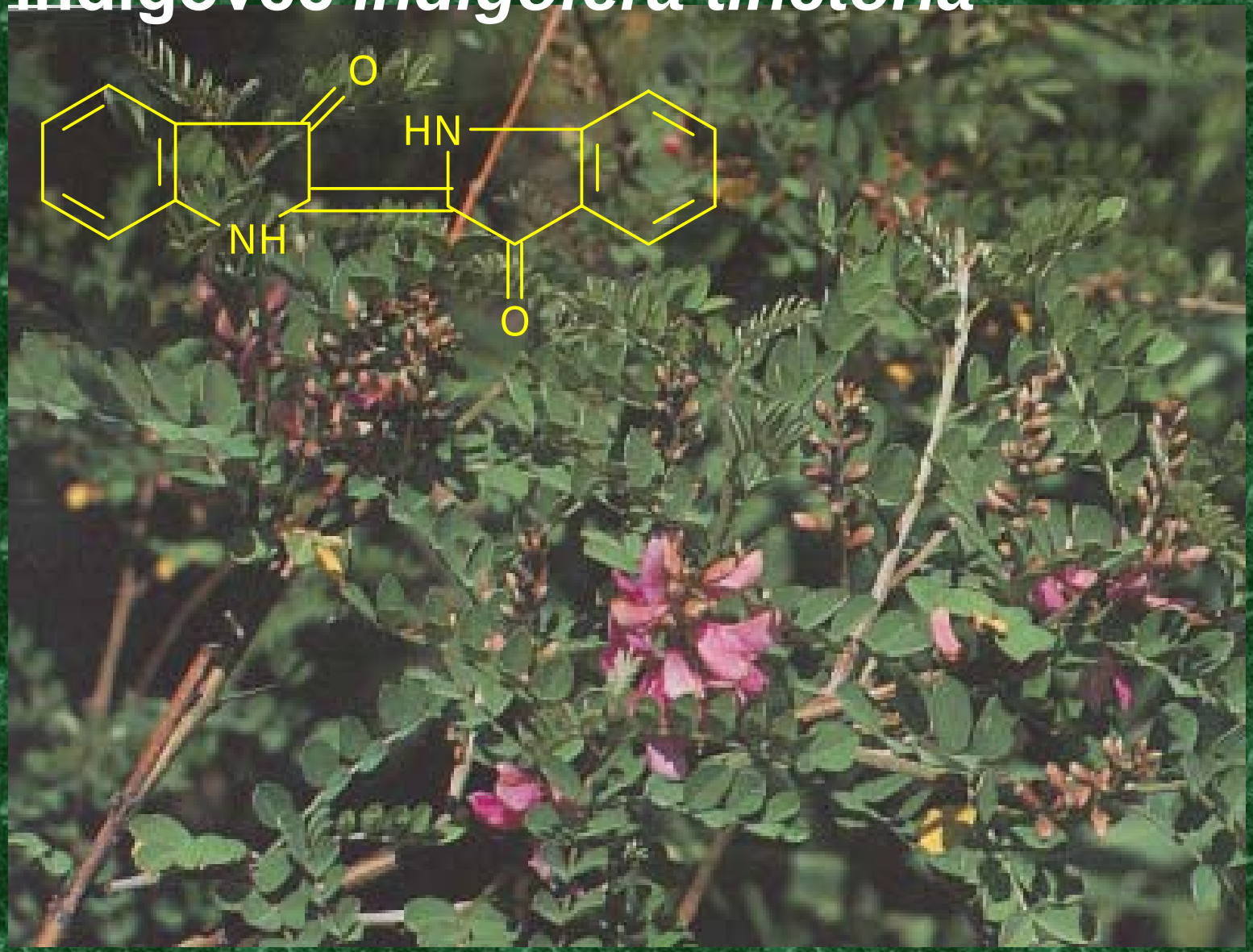


Nonvowen polypropylene textile impregnated with microencapsulated PCMs (SEM, 630x);



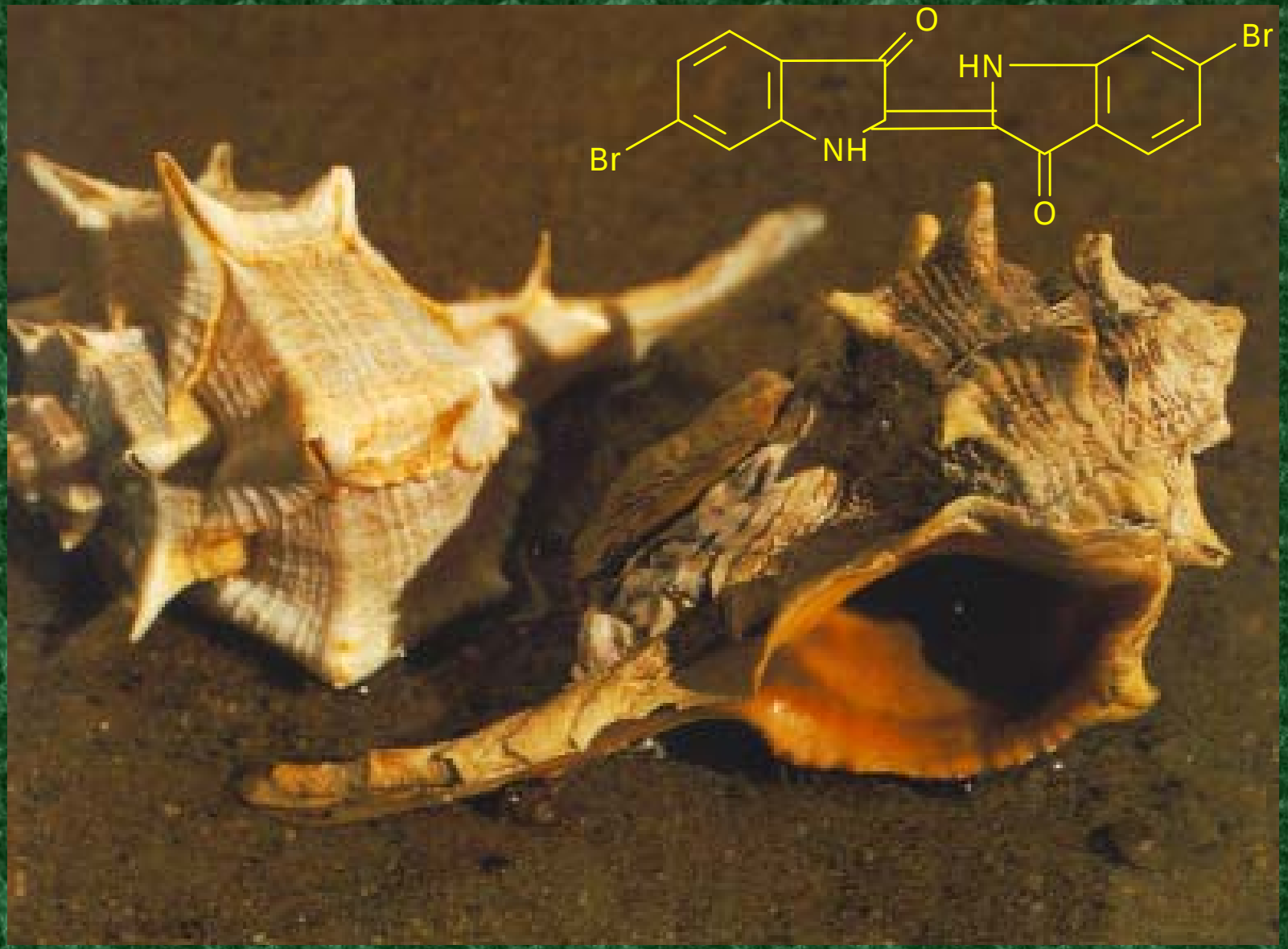
Applications of Microencapsulated PCMs

indigovec *Indigofera tinctoria*



Glikozid indikan z oksidacijo (dimerizacijo) daje barvilo indigo.
Sintetični indigo (Bayer, 1865; 13.000 ton letno za jeans)

ŠKRLAT (antični purpur, kraljevski škrlat)

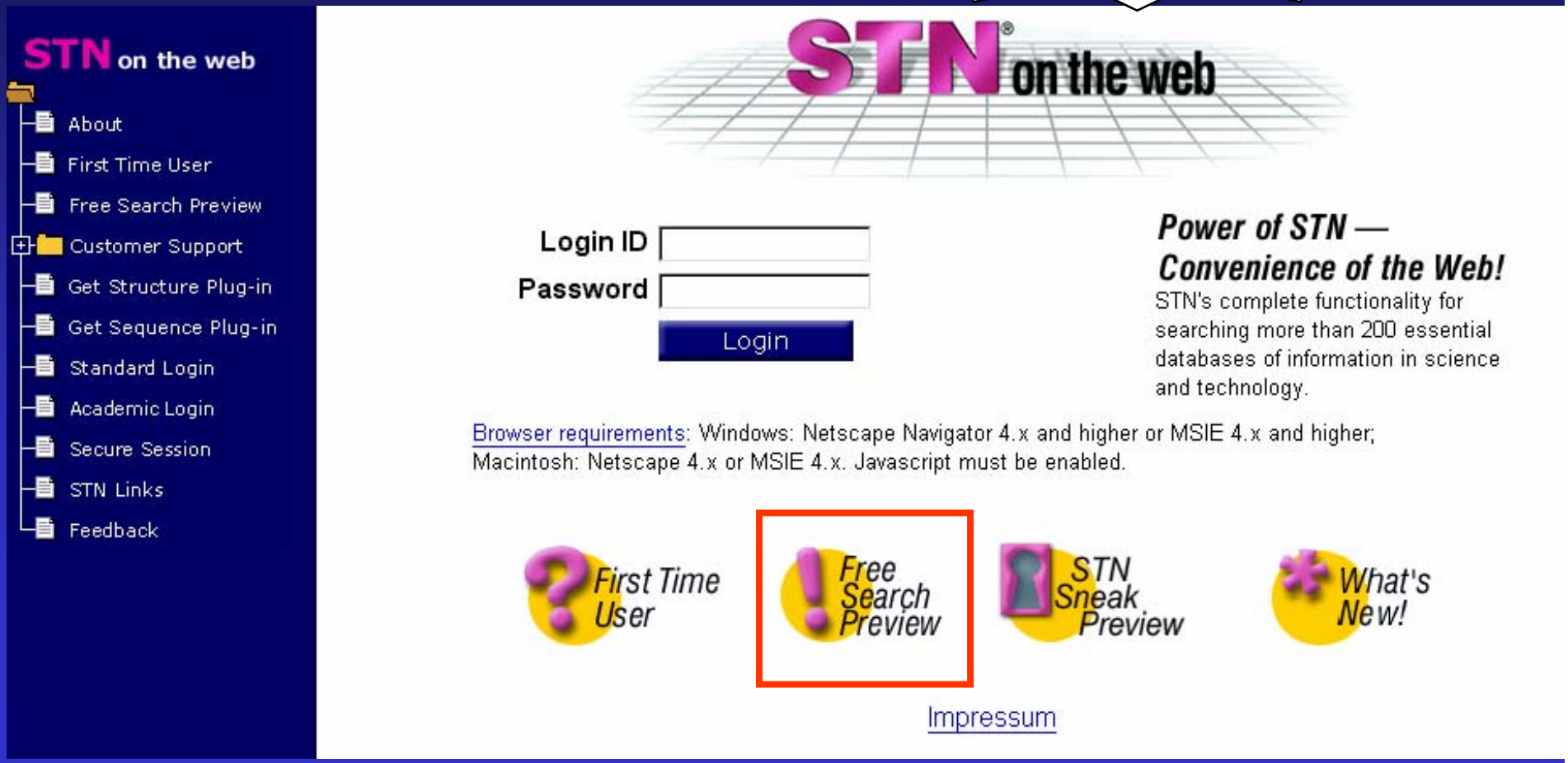


Čokati volek *Murex brandaris (Bolinus brandaris)*

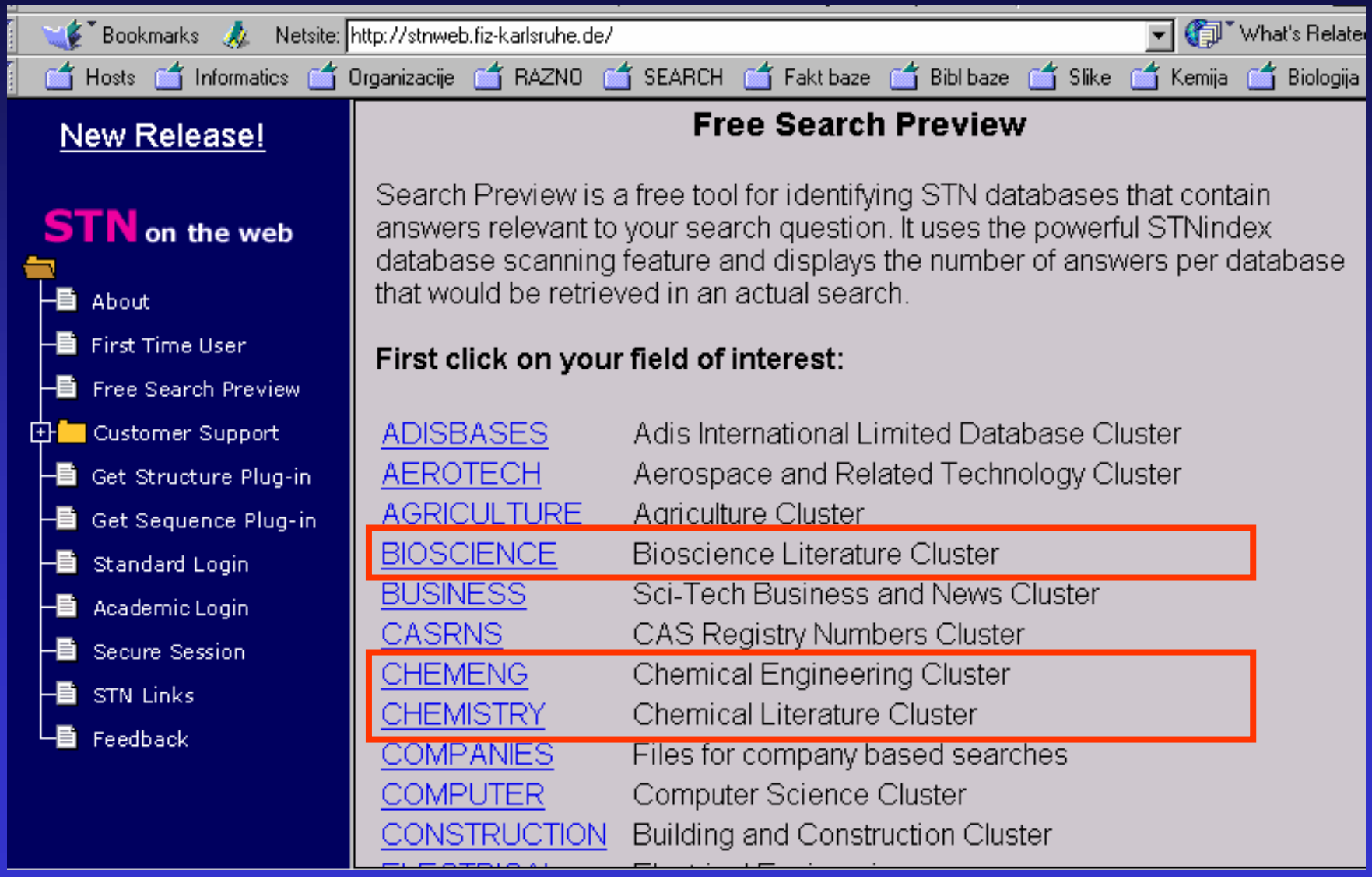
STN on the Web

http://stnweb.fiz-karlsruhe.de/

DELI SPLETNIH STRANI



STN on the Web
http://stnweb.fiz-karlsruhe.de/
selection of database clusters



Tabele

- Besedilo < Tabela < Graf
- Tekstovne tabele – pregled
- Številčne tabele

Organising search results into a table:

Years	All	Patent	Nonpatent
1965	0	0	0
1966	0	0	0
1967	0	0	0
1968	0	0	0
1969	2	2	0
1970	0	0	0
1971	1	1	0
1972	6	6	0
1973	10	9	1
1974	9	9	0
1975	12	12	0
1976	8	8	0
1977	12	11	1
1978	4	4	0
1979	2	2	0
1980	6	6	0
1981	2	2	0
1982	1	1	0
1983	5	4	1
1984	2	2	0
1985	1	1	0
1986	6	6	0
1987	10	10	0
1988	6	6	0
1989	12	12	0
1990	15	15	0
1991	19	18	1
1992	18	16	2
1993	16	15	1
1994	20	20	0
1995	17	16	1
1996	17	14	3
1997	17	14	3
1998	19	14	5
1999	21	15	6
2000	24	18	6
2001	34	26	8
2002	39	46	13

ŠTEVILČNE TABELE

PRAG ZAZNAVNOSTI VONJA

PRIMERJAVE

SPOJINA	VIR	PRAG (g/l)
etilmerkaptan	sinteza	$4{,}5 \times 10^{-14}$
vanilin	vanilija	$5{,}0 \times 10^{-12}$
β-ionon	vijolica	$1{,}0 \times 10^{-10}$
mentol	poprova meta	$8{,}7 \times 10^{-7}$

ROŽNO OLJE – razlike glede na poreklo

SPOJINA	BOLGARIJA	TURČIJA
citronelol	34,40 %	45,04 %
geraniol	18,47 %	11,46 %
nerol	11,51 %	9,78 %
C19 alkan ali alken	8,14 %	7,34 %
C21 alkan ali alken	5,28 %	3,30 %
metil evgenol	3,37 %	3,26 %
linalool	2,18 %	0,54 %
C17 alkan ali alken	1,90 %	1,80 %
geranil acetat	1,60 %	1,23 %
dekanal	1,45 %	1,88 %
feniletil alkohol	1,43 %	2,01 %
etanol	1,42 %	5,14 %
evgenol	1,20 %	1,19 %

PRIMERJAVE
z izgradnjo
tabele

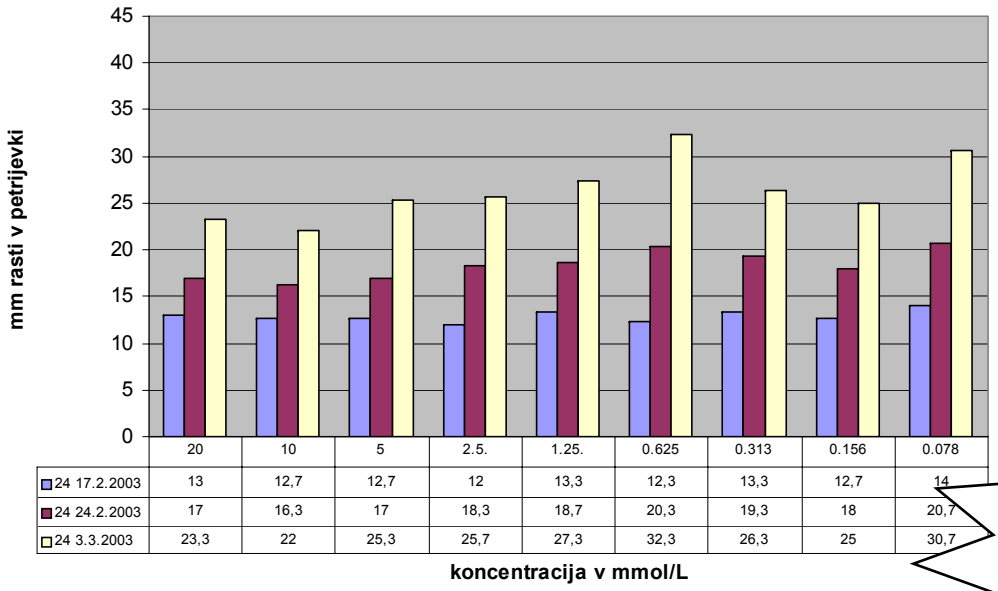
Rizični dejavniki maščob
(Inštitut za higieno in MF)

MK	atero-skleroza	rak	žolčni kamni	debelost
nasičene	↑↑	↑	↑	↑
mono-nenasič.	↓↓	↑	↑	↑
poli-nenasič.	↓	↑↑	↑↑	↑
C_4-C_{10}		↓		↑
Ω-3	↓	↑		↑

Grafi

- Izbrati ustrezni tip grafa glede na podatke (stolpični, zvezne krivulje)
- Za primerjave rezultatov poenotiti merilo več grafov (vedno enaka skala na oseh x in y)
- Za isti tip podakov v več grafih uporabiti vedno enako barvo ali vzorec

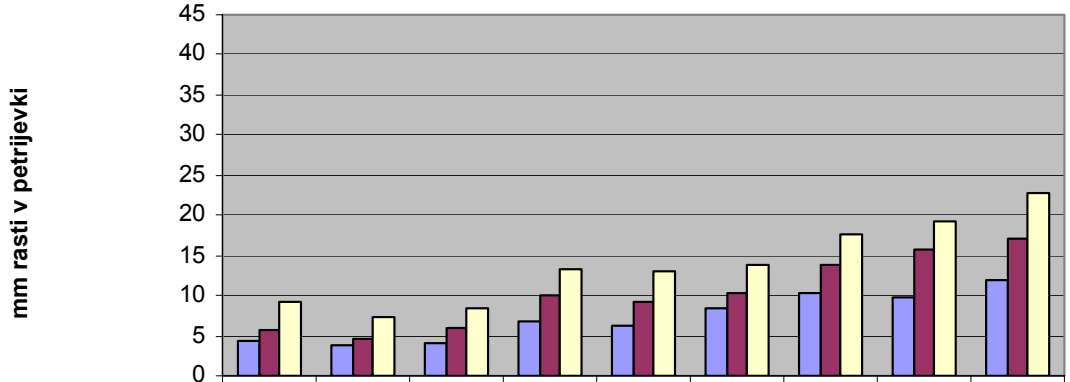
Vzorec 24 - kinolin



	20	10	5	2.5.	1.25.	0.625	0.313	0.156	0.078
24 17.2.2003	13	12,7	12,7	12	13,3	12,3	13,3	12,7	14
24 24.2.2003	17	16,3	17	18,3	18,7	20,3	19,3	18	20,7
24 3.3.2003	23,3	22	25,3	25,7	27,3	32,3	26,3	25	30,7

koncentracija v mmol/L

Vzorec 28 - 2,6-diklorofenol



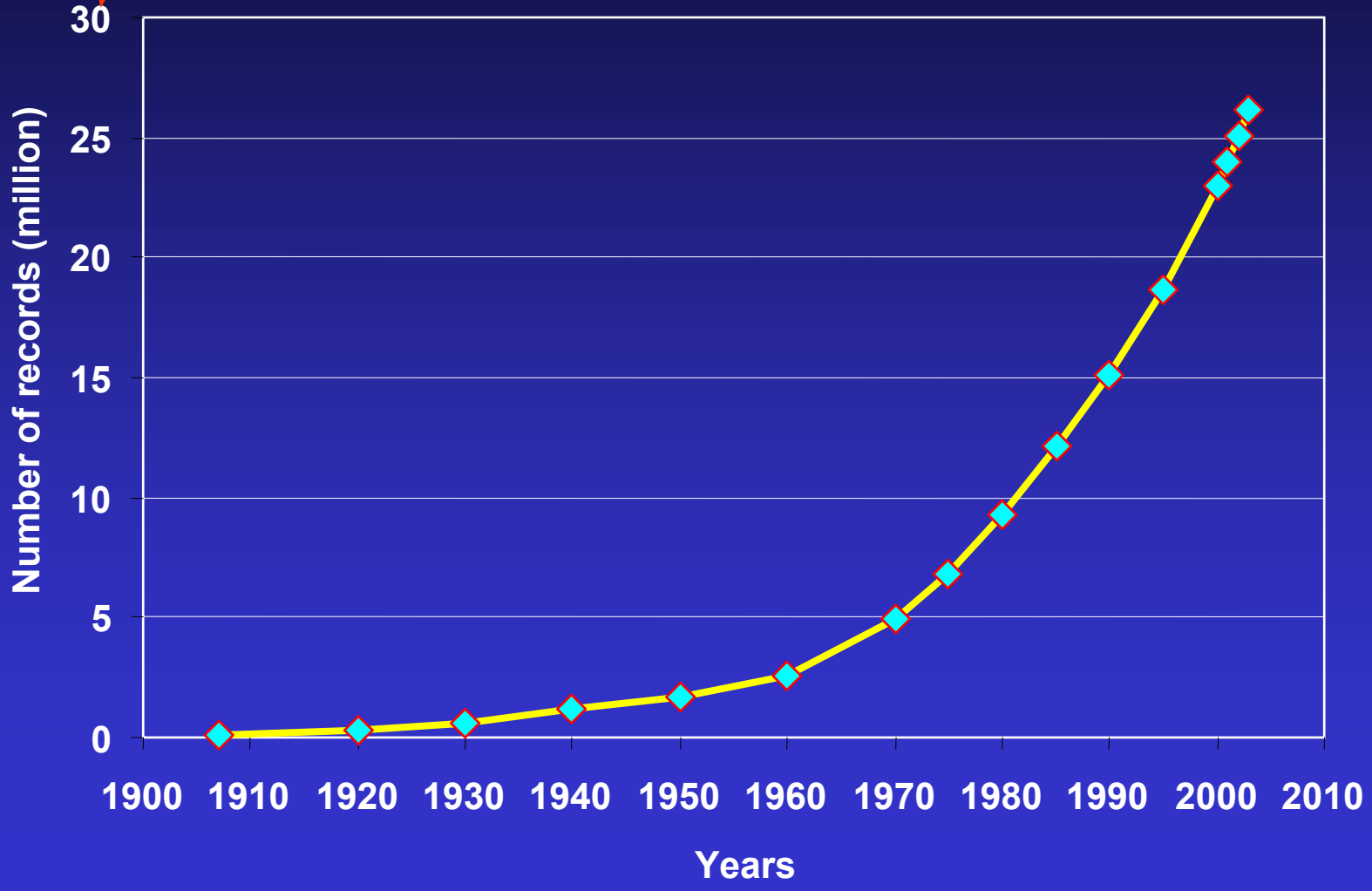
	20	10.0	5.0	2.5.	1.25.	0.625	0.313	0.156	0.078
28 14.4.2003	4,3	3,7	4	6,7	6,3	8,3	10,3	9,7	12
28 21.4.2003	5,7	4,7	6	10	9,3	10,3	13,7	15,7	17
28 28.4.2003	9,3	7,3	8,3	13,3	13	13,7	17,7	19,3	22,7

koncentracija v mmol/L

POENOTENO MERILO IN BARVE

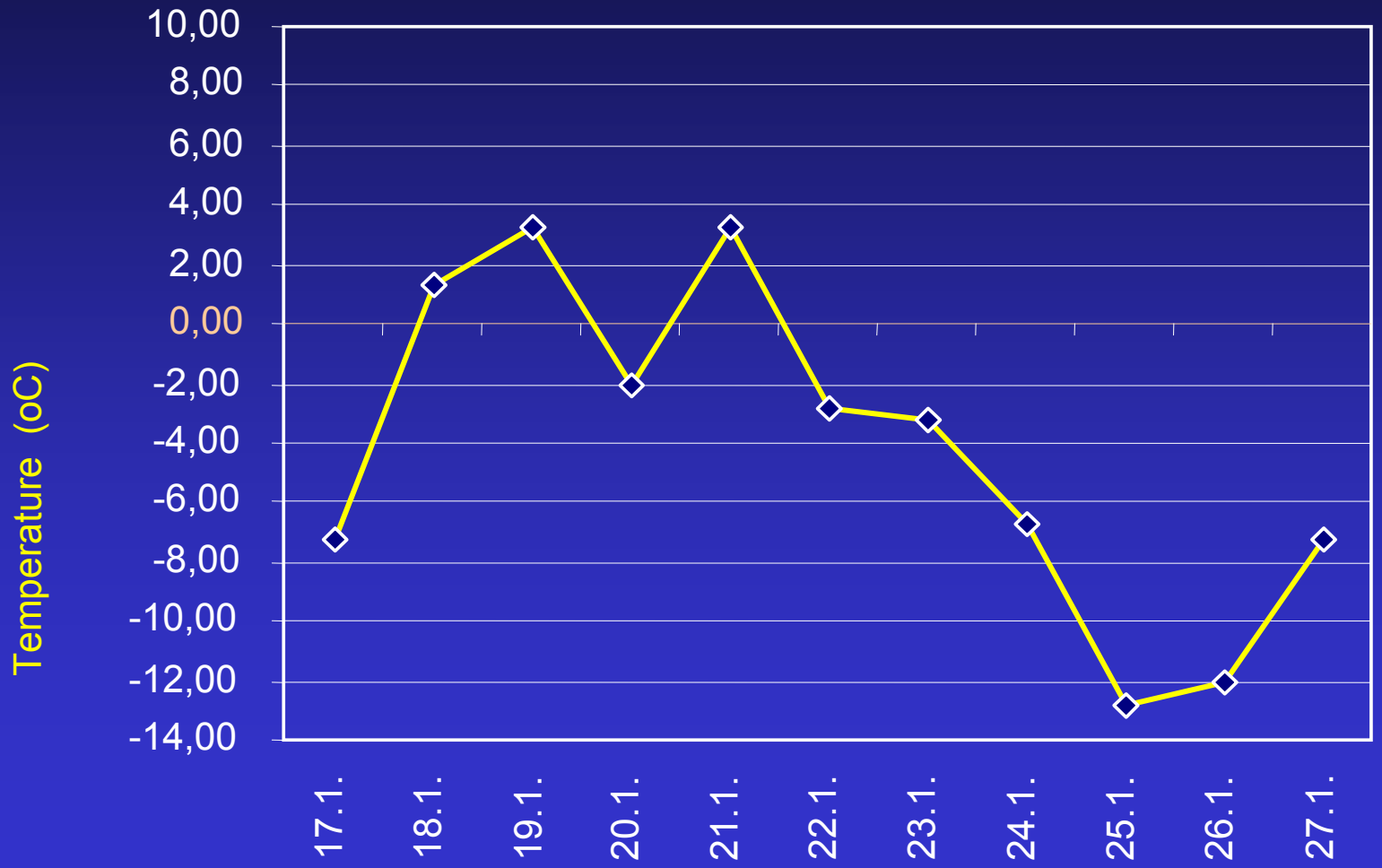
Zvezna krivulja

Chemical Abstracts bibliographic database



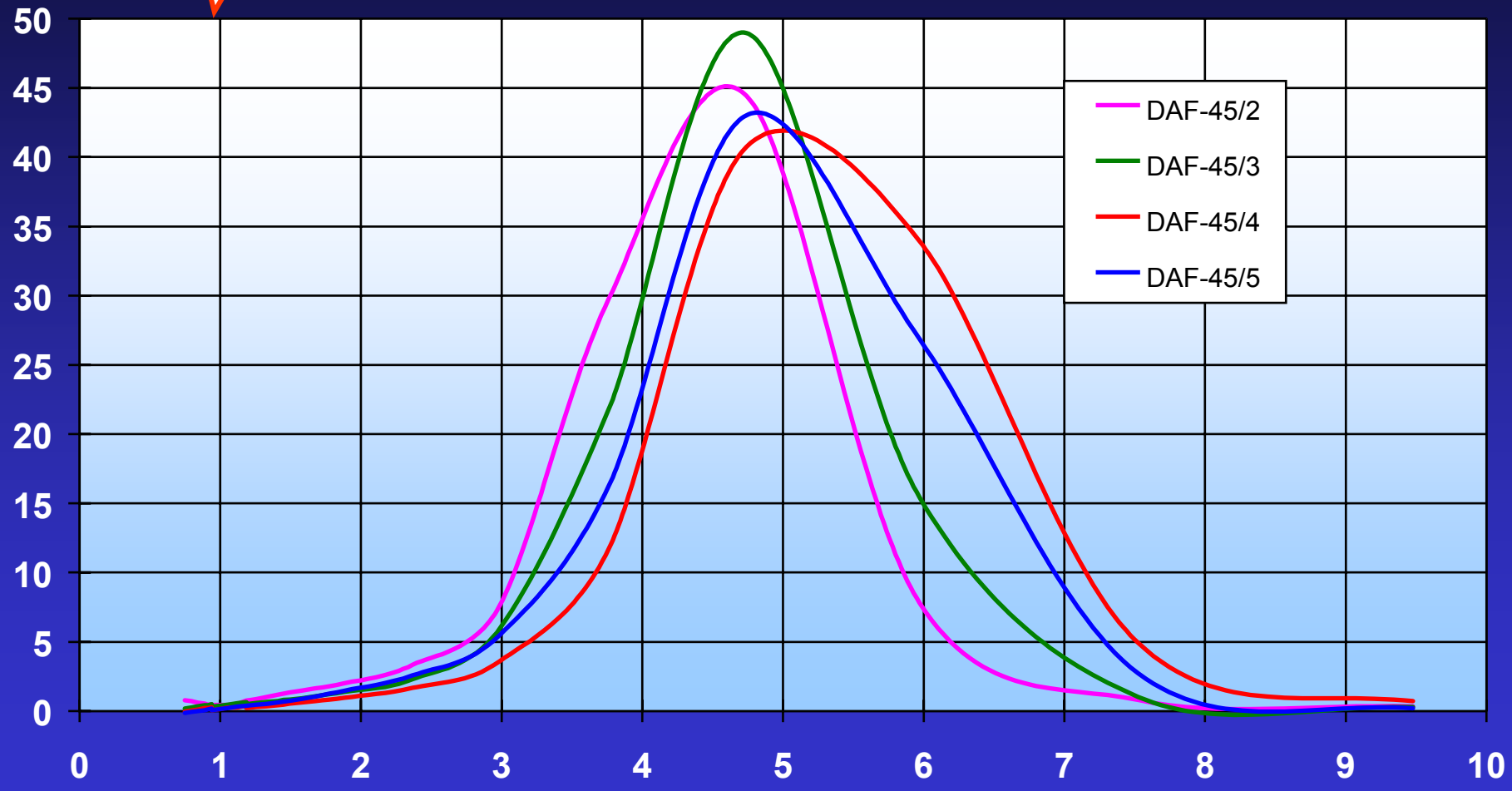
Zvezna krivulja

Average daily temperatures



Zvezna krivulja

Size distribution of hardened microcapsules containing Daphne repellent in isopropyl miristate

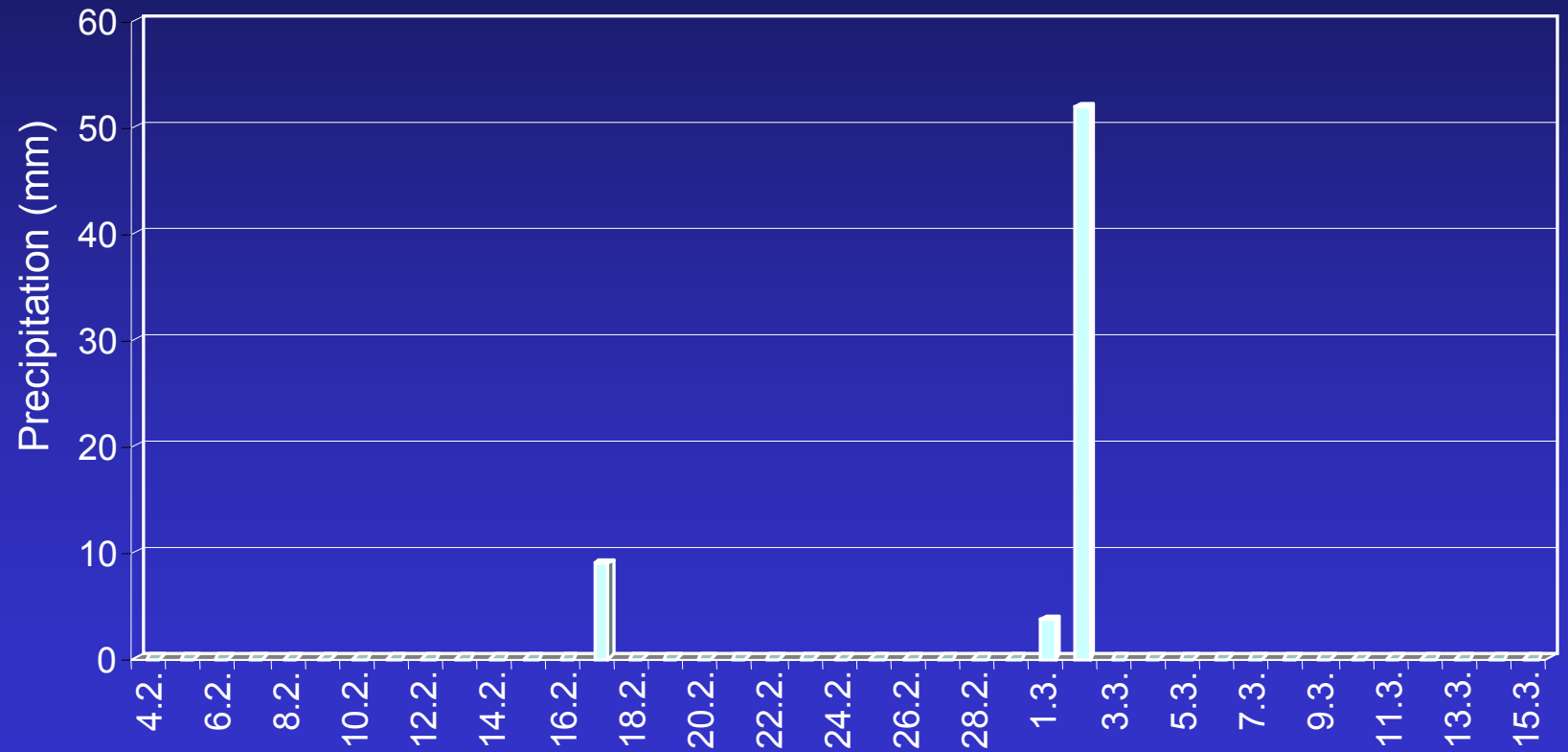


(Coulter Counter TA II)

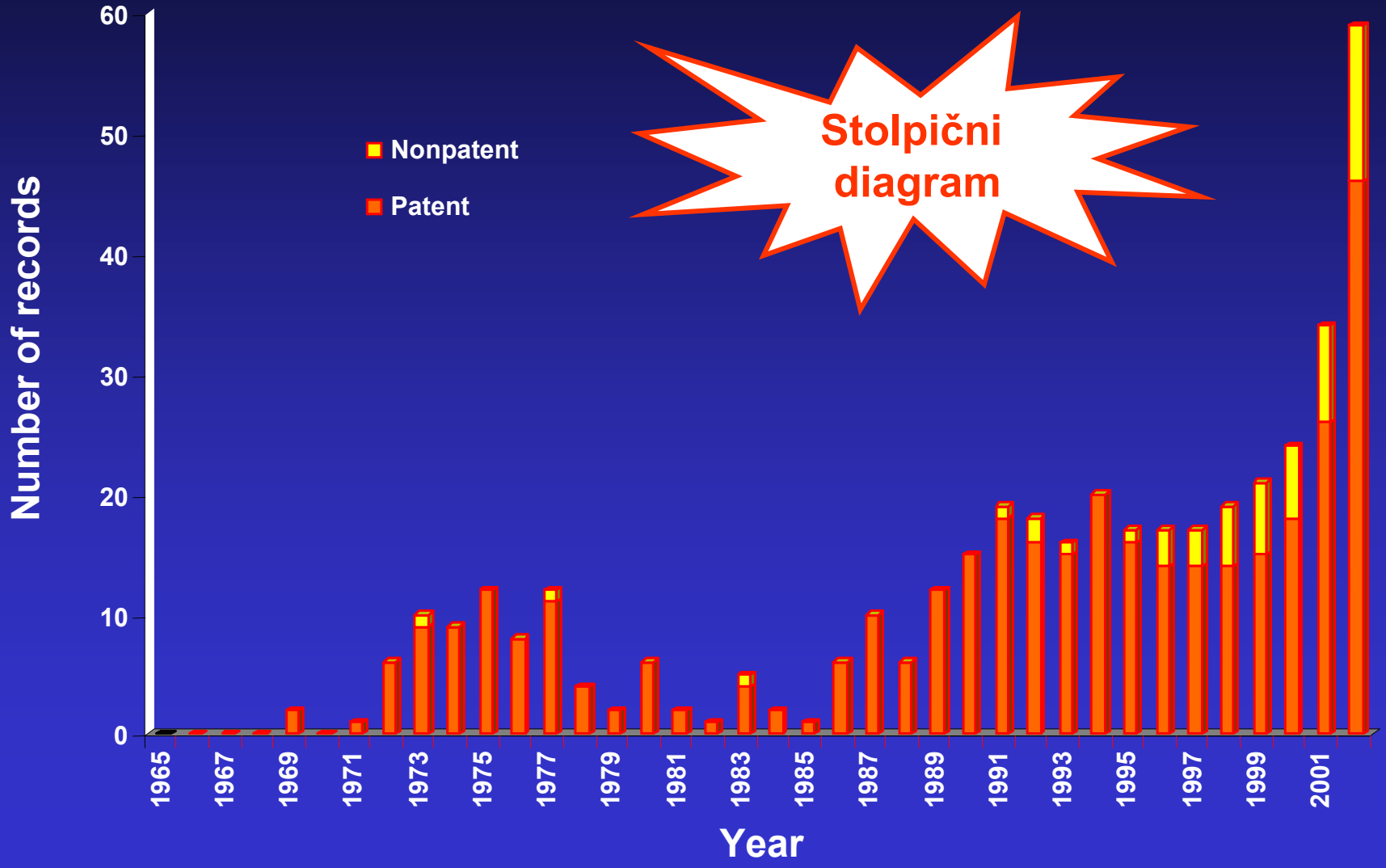
Microcapsule diameter (μm)

Stolpični diagram – diskretni podatki

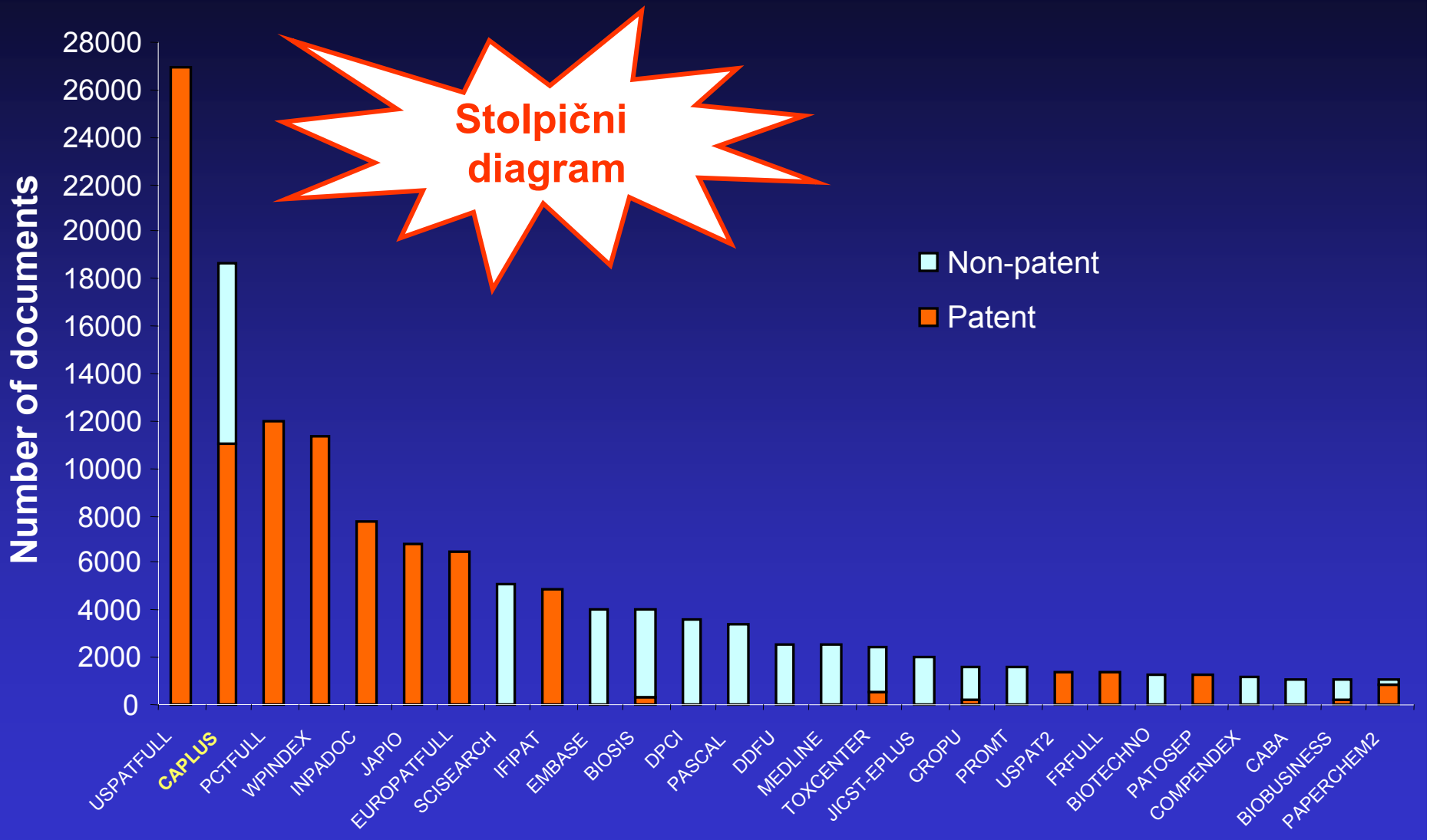
Precipitation (rain)



Graphic presentation of results: Microencapsulation in textiles



Bibliographic databases containing more than 1000 records on microencapsulation

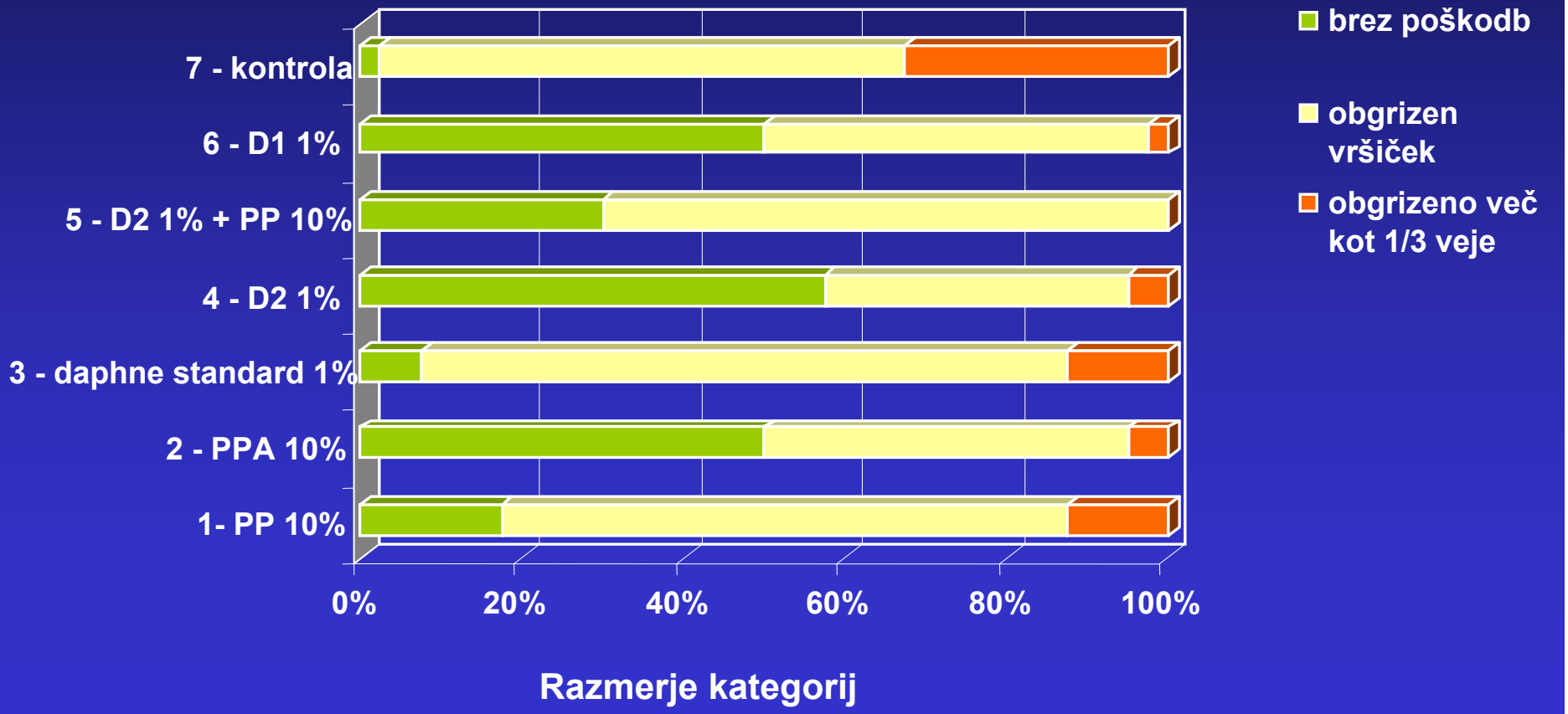


(STN International, database clusters Chemistry, Bioscience, Patents; search profile *microcapsul? or microencapsul?;* processed May 2004.

Poskus 2

(4. februar - 15. marec 2000)

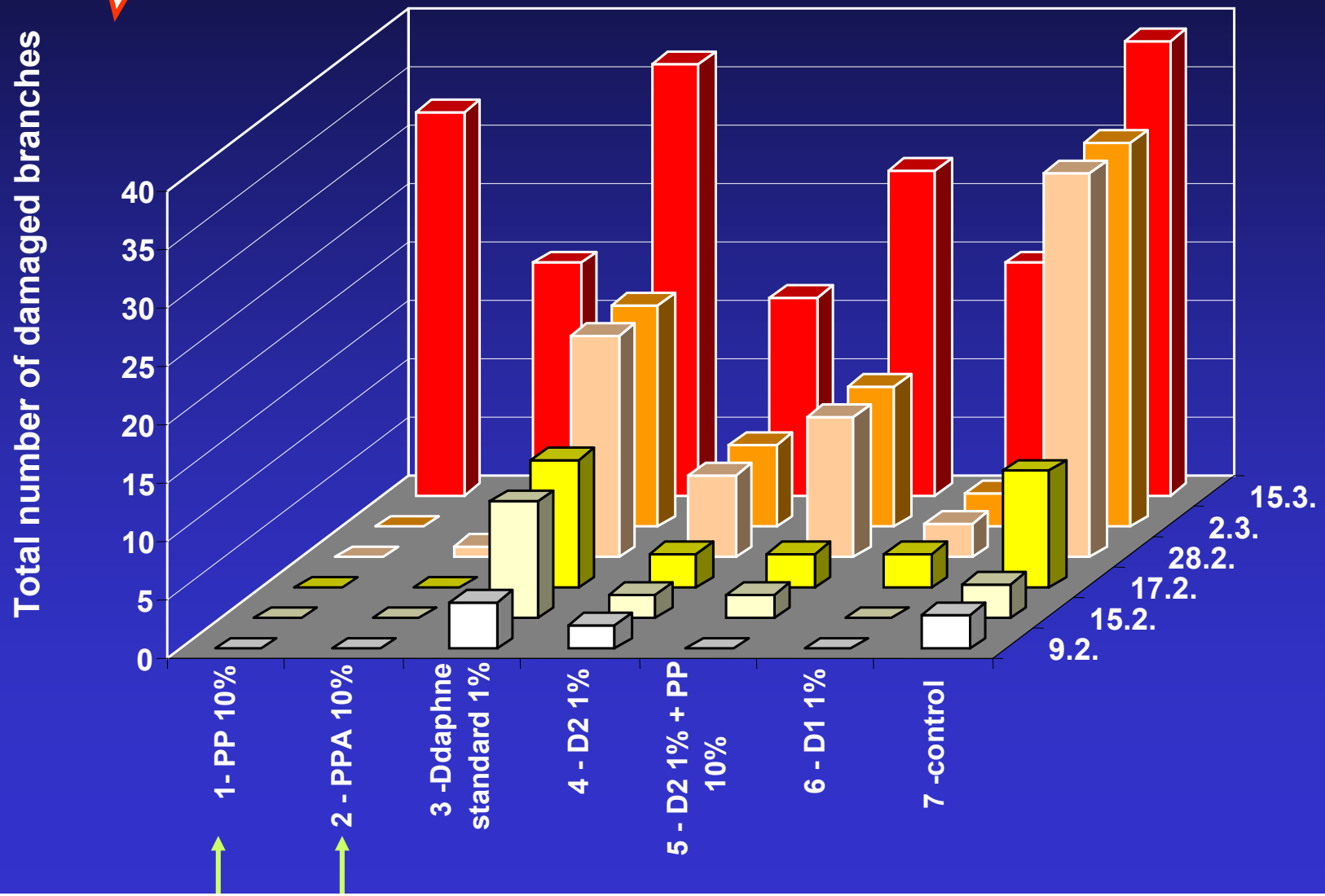
primerjava odstotkov



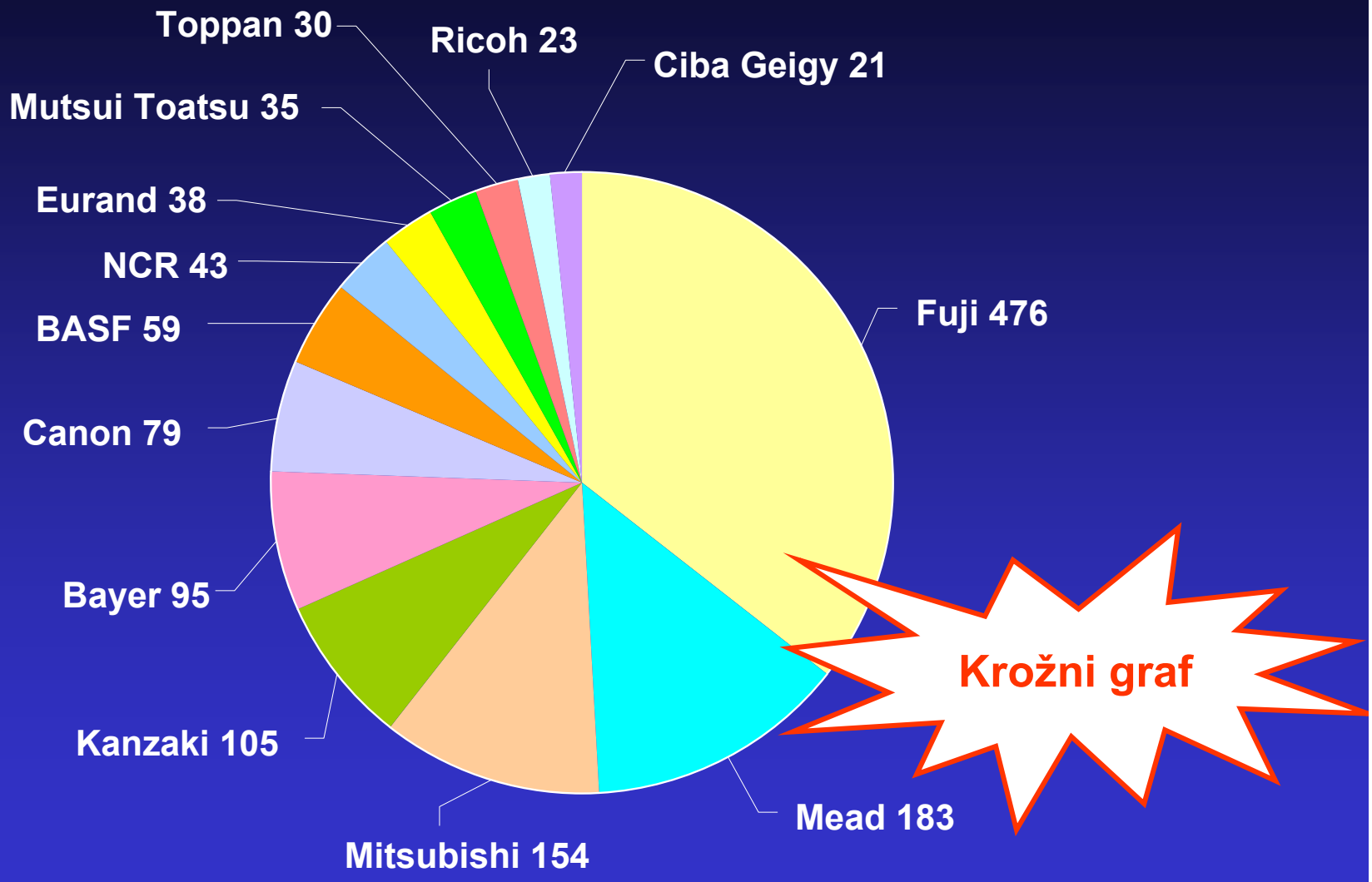
3D- Stolpični diagram

Results of experiment 2: milder winter conditions

(4 February - 15 March 2000)



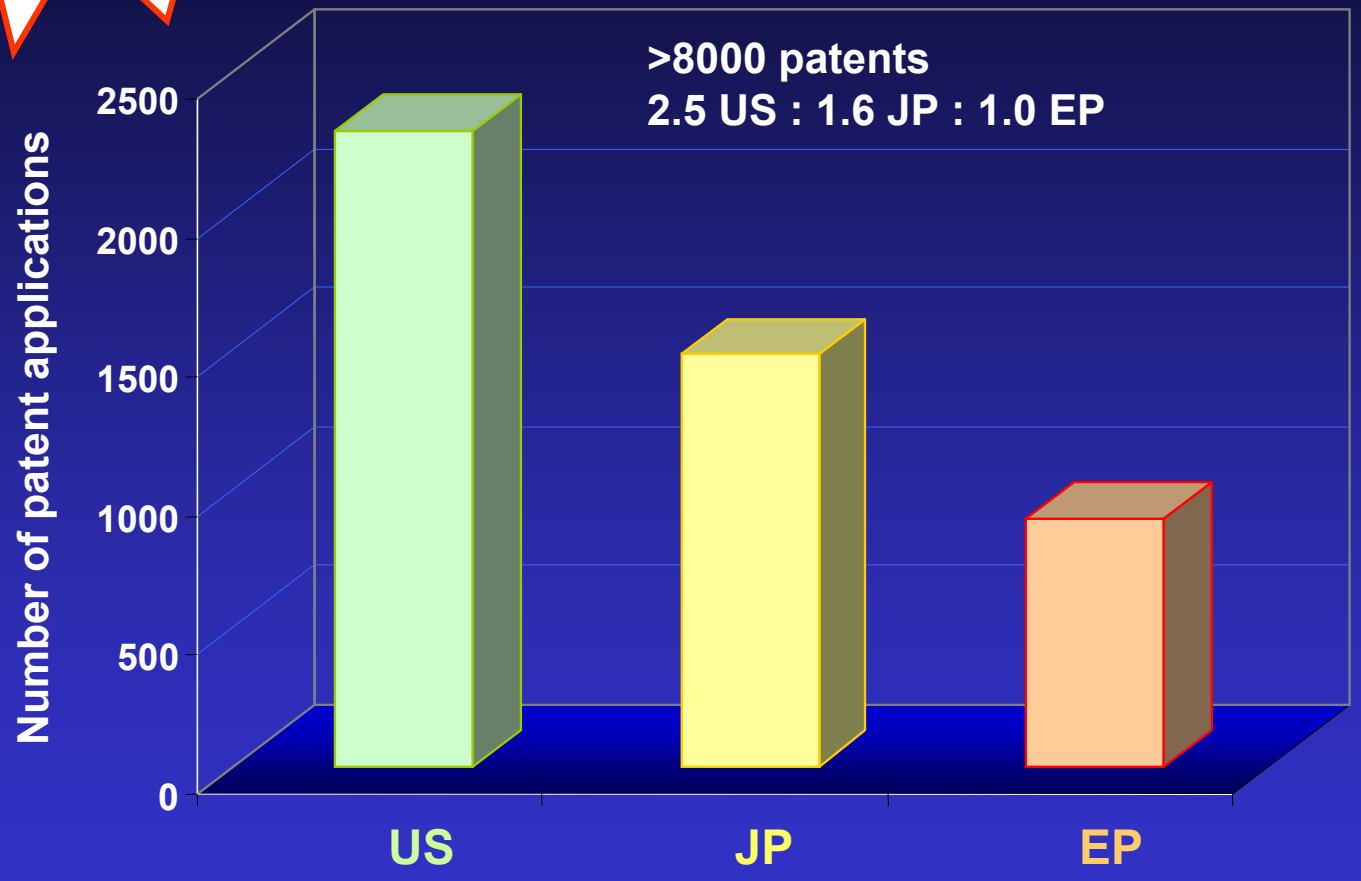
Patent applicants with more than 20 patents on microencapsulation in the Espacenet patent database



Search profile: Keyword(s) in title or abstract: *microcapsule or microcapsules or microencapsulation or microencapsulated,* Applicant: *Fuji* (applicant names)

Stolpični diagram

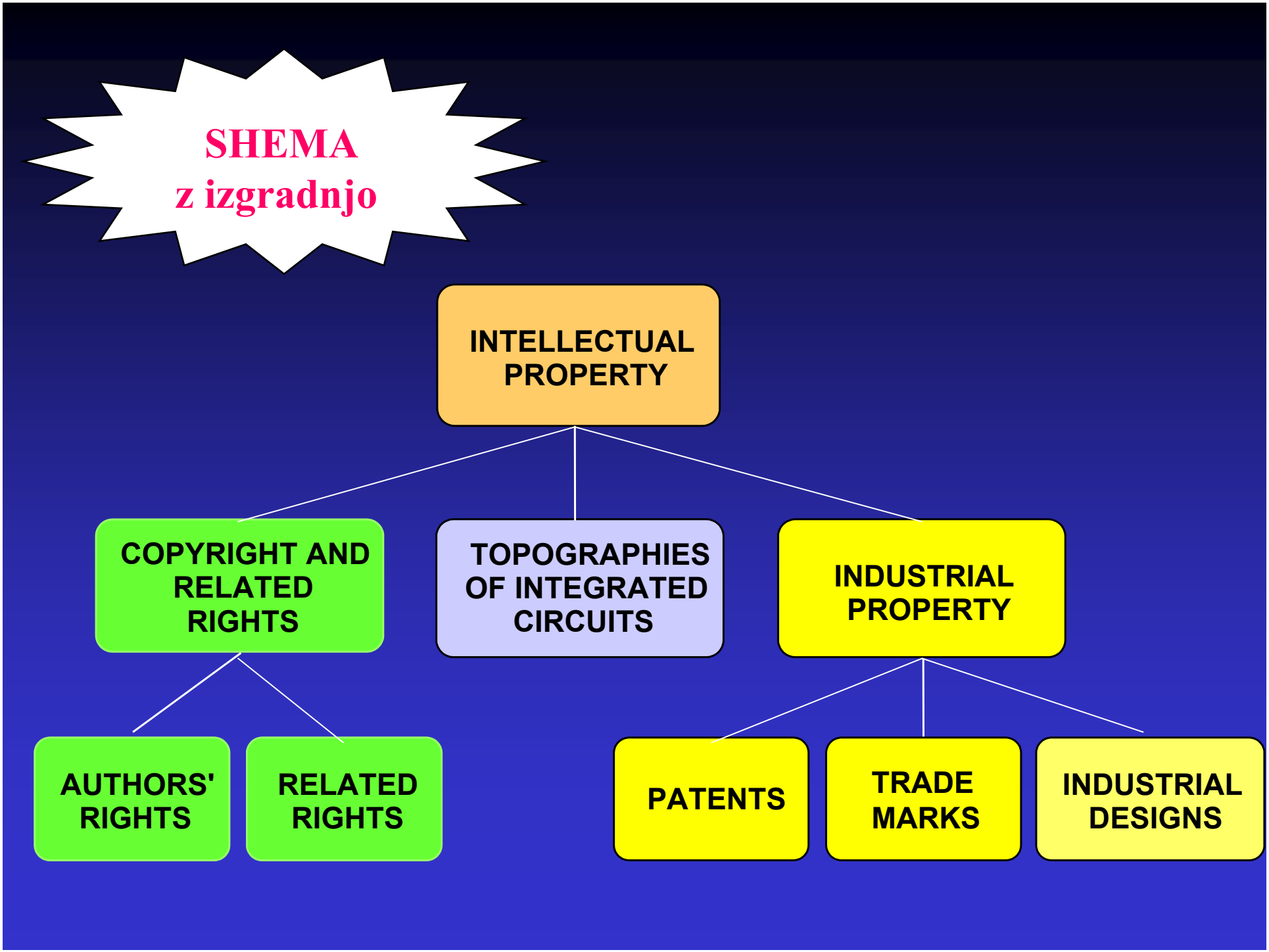
and European patent applications on on in the Espacenet patent database



(Advanced Search - search profile: Keyword(s) in title or abstract: *microcapsule or microcapsules or microencapsulation or microencapsulated,* Application number: *US* (or JP, EP)

Sheme

- Rezultat urejanja podatkov - nazorno pokažejo zgradbo
- Drevesne oblike - od splošnega proti specifičnemu
- Sheme postopkov
- Celotna shema naenkrat ali dograjevanje na zaslonu


SHEMA
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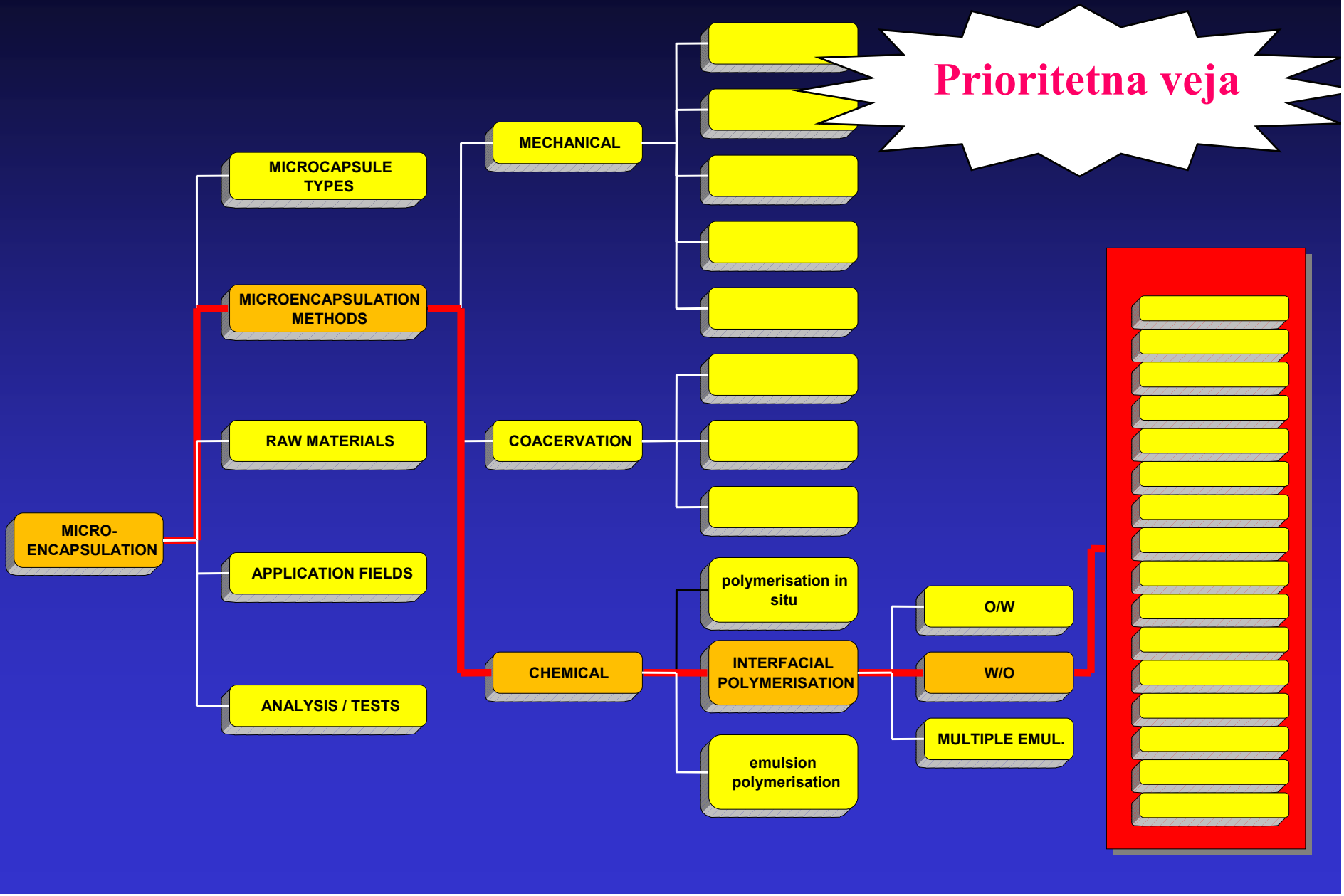
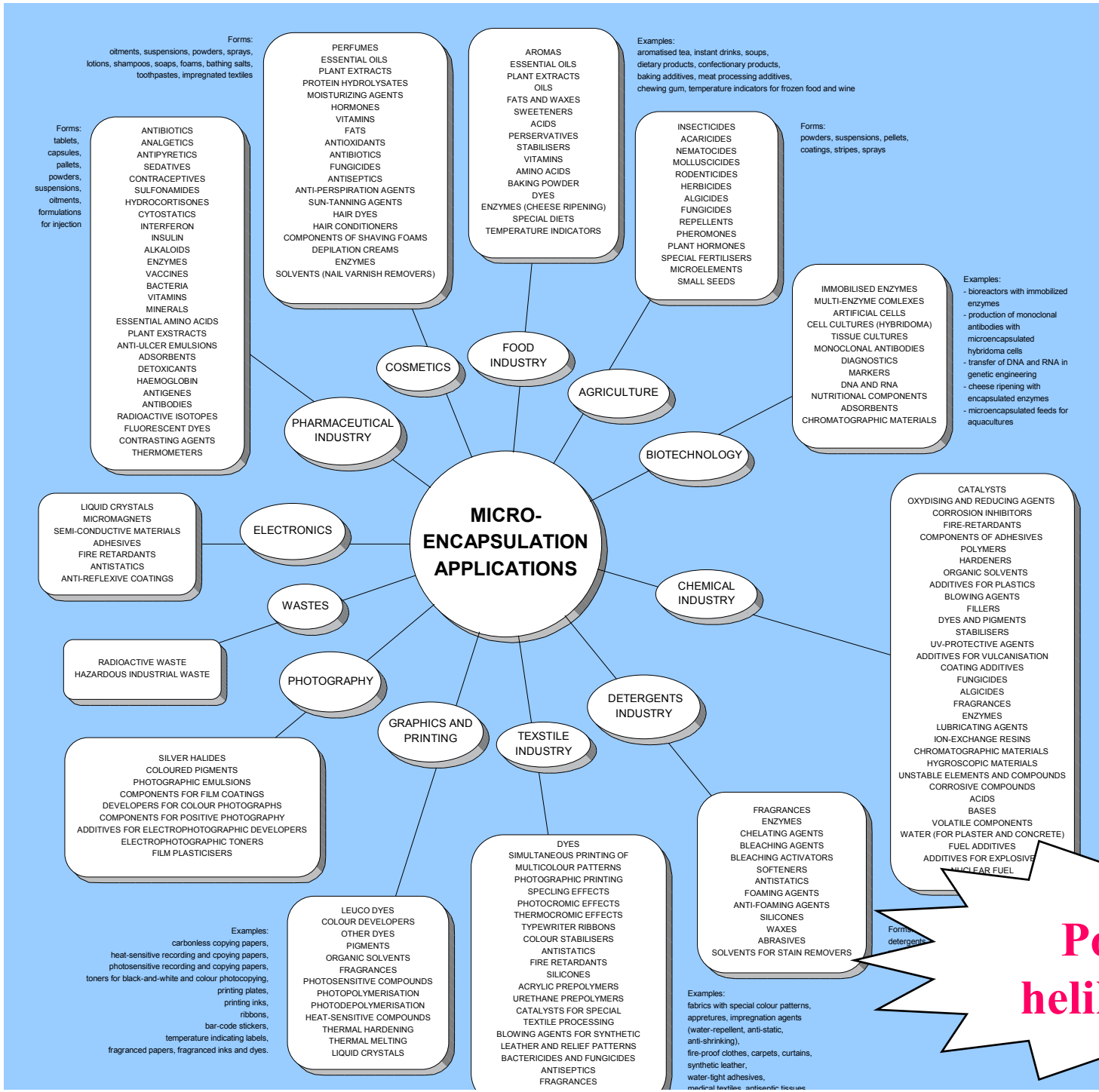
INTELLECTUAL PROPERTY
COPYRIGHT AND RELATED RIGHTS
TOPOGRAPHIES OF INTEGRATED CIRCUITS
INDUSTRIAL PROPERTY
AUTHORS' RIGHTS
RELATED RIGHTS
PATENTS
TRADE MARKS
INDUSTRIAL DESIGNS

SELECTING THE PRIORITY BRANCH:
Microencapsulation by interfacial polymerisation in W/O emulsion systems

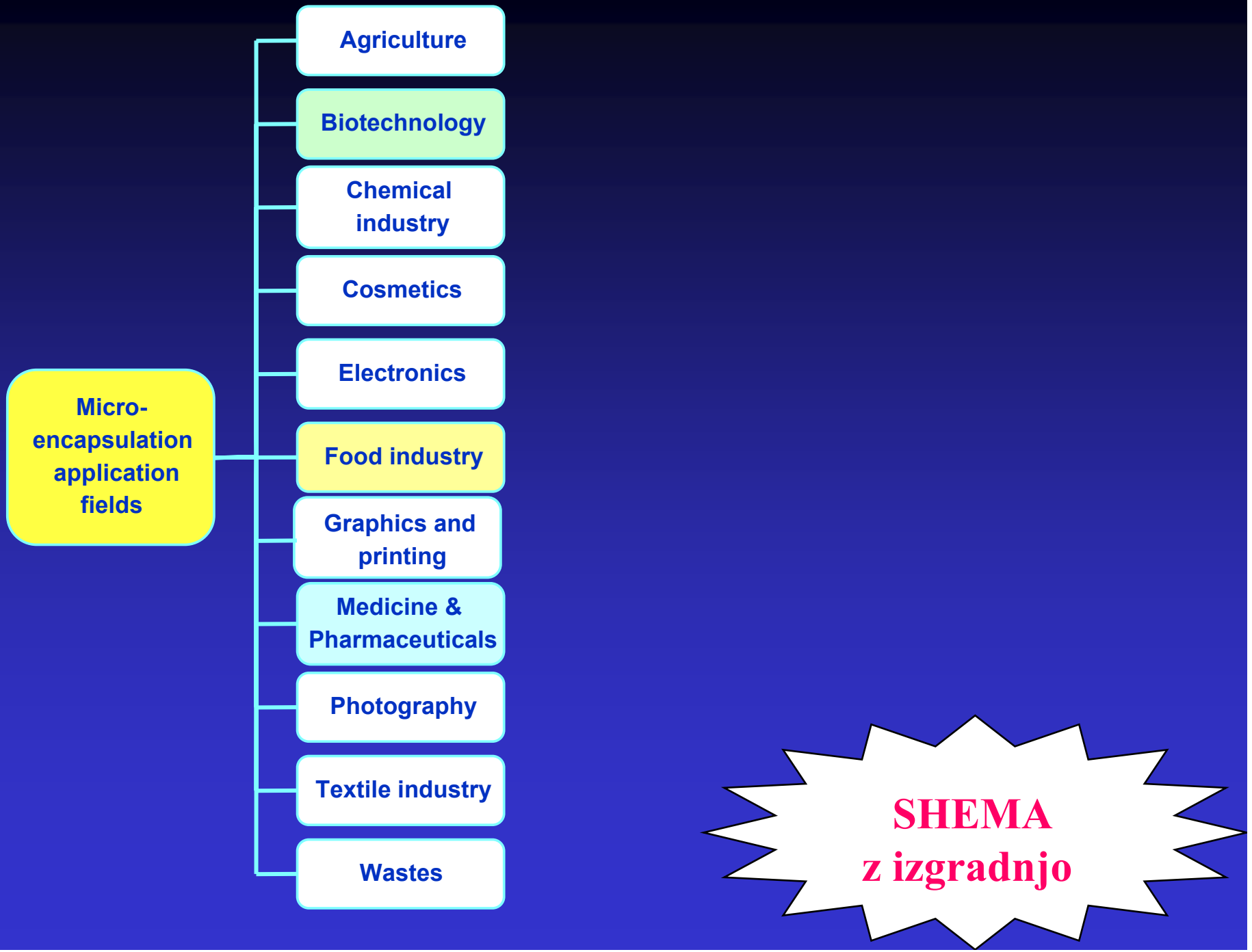


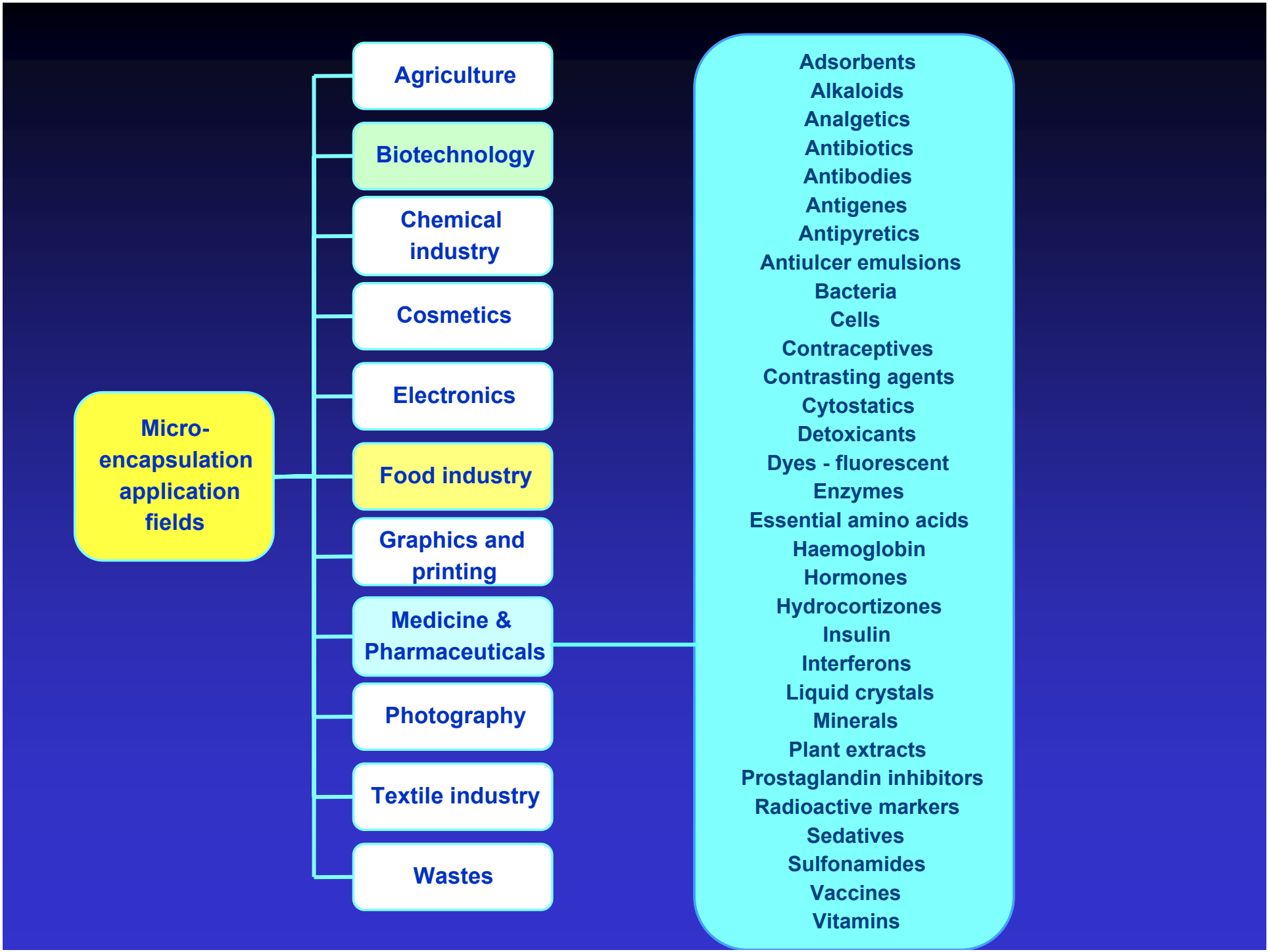
A module on micro-encapsulation applications

a map for defining unoccupied market niches



Pogled s helikopterja


Micro-encapsulation application fields
Agriculture
Biotechnology
Chemical industry
Cosmetics
Electronics
Food industry
Graphics and printing
Medicine & Pharmaceuticals
Photography
Textile industry
Wastes
SHEMA
z izgradnjo


Micro-encapsulation application fields
Agriculture
Biotechnology
Chemical industry
Cosmetics
Electronics
Food industry
Graphics and printing
Medicine & Pharmaceuticals
Photography
Textile industry
Wastes
Adsorbents
Alkaloids
Analgetics
Antibiotics
Antibodies
Antigenes
Antipyretics
Antiulcer emulsions
Bacteria
Cells
Contraceptives
Contrasting agents
Cytostatics
Detoxicants
Dyes - fluorescent
Enzymes
Essential amino acids
Haemoglobin
Hormones
Hydrocortizones
Insulin
Interferons
Liquid crystals
Minerals
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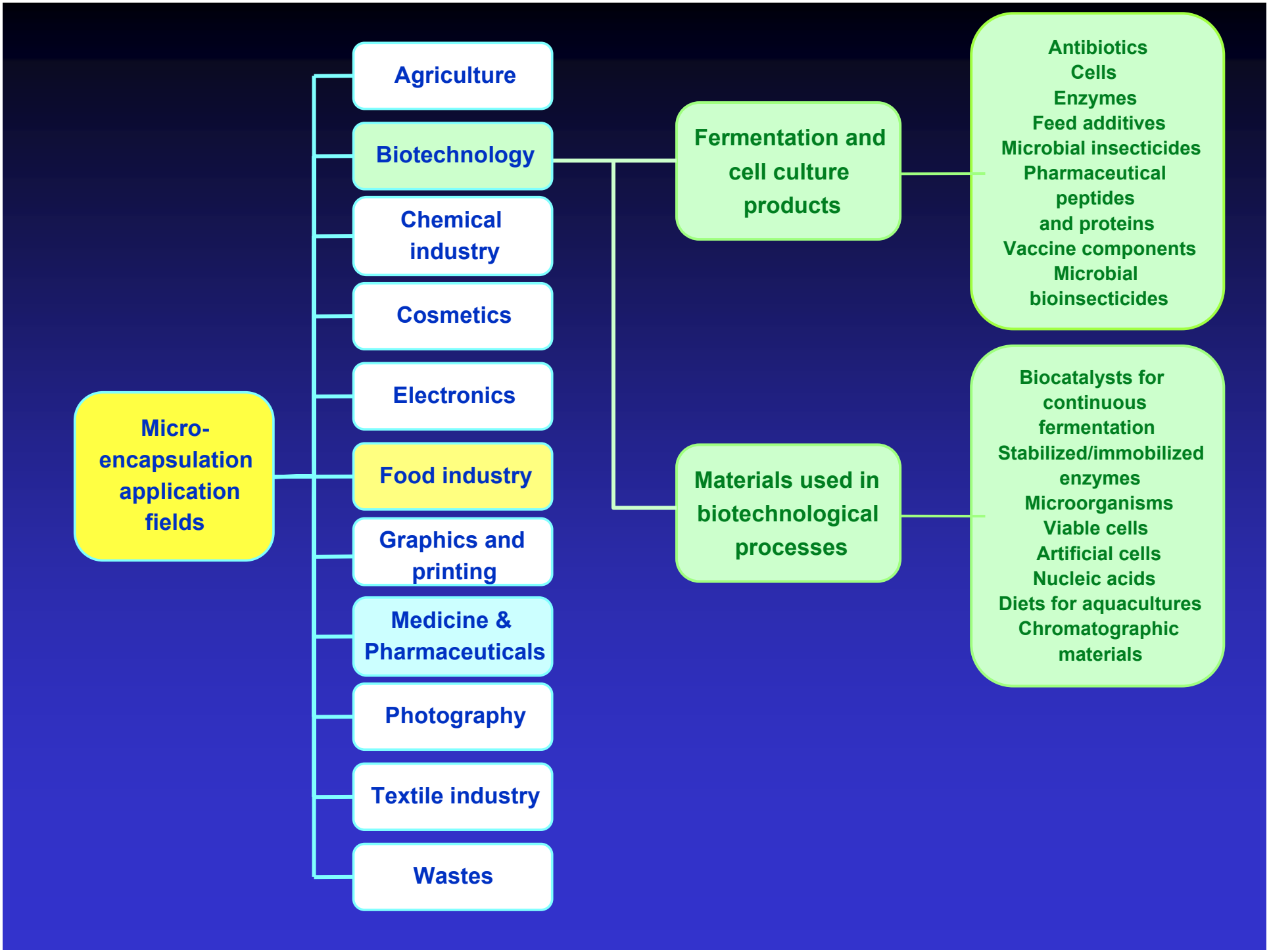
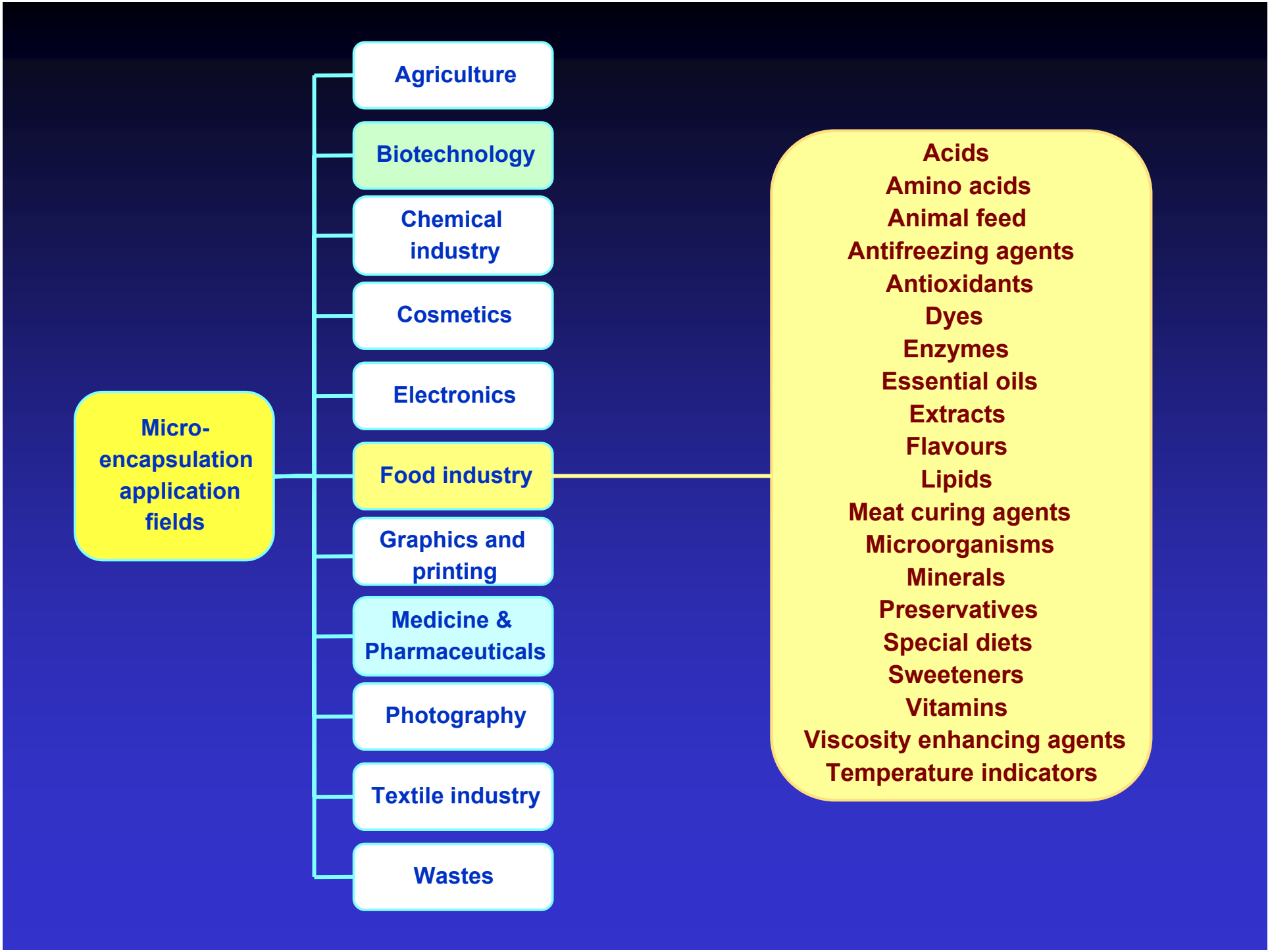
Sulfonamides
Vaccines
Vitamins


Micro-encapsulation application fields
Agriculture
Biotechnology
Chemical industry
Cosmetics
Electronics
Food industry
Graphics and printing
Medicine & Pharmaceuticals
Photography
Textile industry
Wastes
Fermentation and cell culture products
Materials used in biotechnological processes
Antibiotics
Cells
Enzymes
Feed additives
Microbial insecticides
Pharmaceutical peptides and proteins
Vaccine components
Microbial bioinsecticides
Biocatalysts for continuous fermentation
Stabilized/immobilized enzymes
Microorganisms
Viable cells
Artificial cells
Nucleic acids
Diets for aquacultures
Chromatographic materials


Micro-encapsulation application fields
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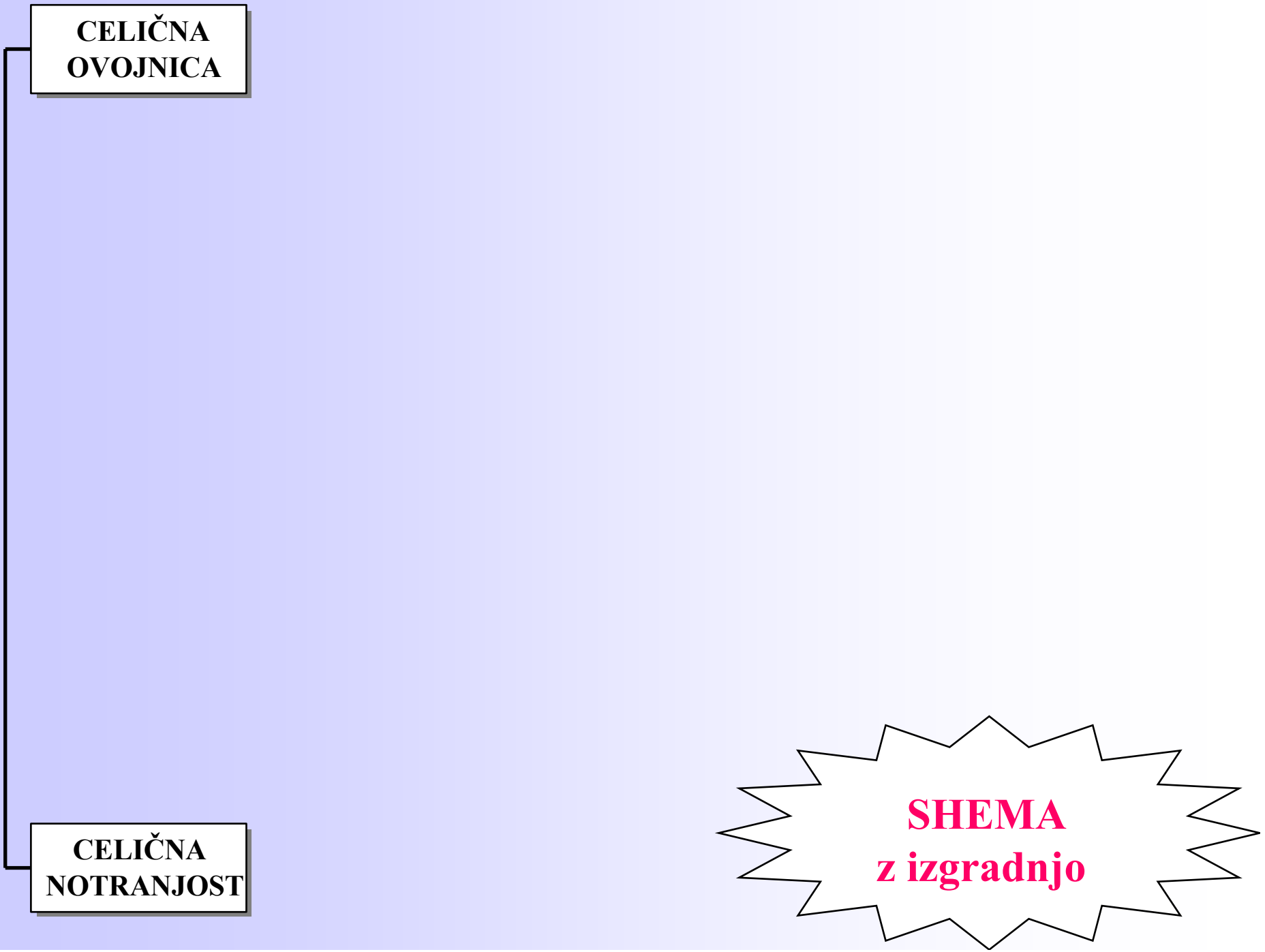
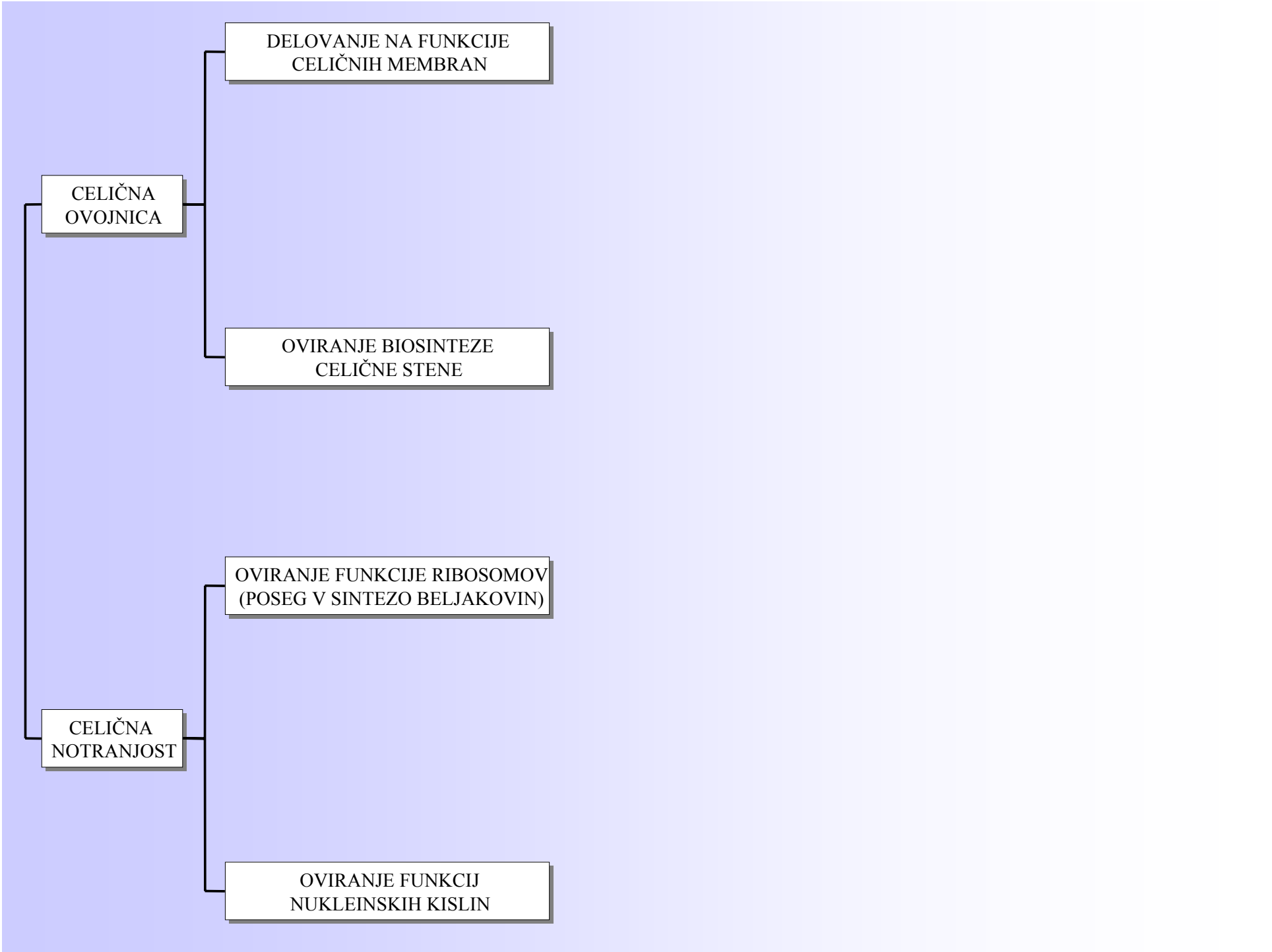
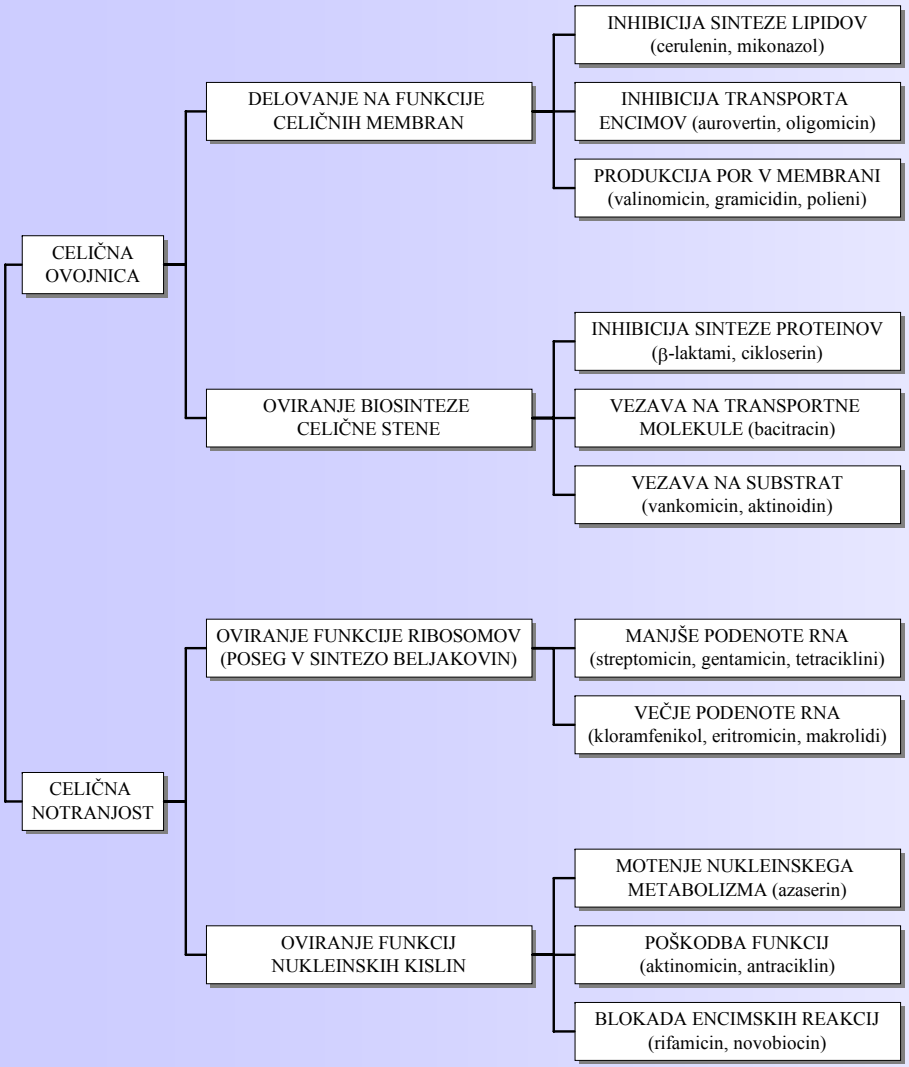
Electronics
Food industry
Graphics and printing
Medicine & Pharmaceuticals
Photography
Textile industry
Wastes
Acids
Amino acids
Animal feed
Antifreezing agents
Antioxidants
Dyes
Enzymes
Essential oils
Extracts
Flavours
Lipids
Meat curing agents
Microorganisms
Minerals
Preservatives
Special diets
Sweeteners
Vitamins
Viscosity enhancing agents
Temperature indicators


CELIČNA OVOJNICA
CELIČNA NOTRANJOST
SHEMA
z izgradnjo


CELIČNA OVOJNICA
DELOVANJE NA FUNKCIJE CELIČNIH MEMBRAN
OVIRANJE BIOSINTEZE CELIČNE STENE
CELIČNA NOTRANJOST
OVIRANJE FUNKCIJE RIBOSOMOV (POSEG V SINTEZO BELJAKOVIN)
OVIRANJE FUNKCIJ NUKLEINSKIH KISLIN


CELIČNA OVOJNICA
DELOVANJE NA FUNKCIJE CELIČNIH MEMBRAN
INHIBICIJA SINTEZE LIPIDOV (cerulenin, mikonazol)
INHIBICIJA TRANSPORTA ENCIMOV (aurovertin, oligomicin)
PRODUKCIJA POR V MEMBRANI (valinomicin, gramicidin, polieni)
OVIRANJE BIOSINTEZE CELIČNE STENE
INHIBICIJA SINTEZE PROTEINOV (β-laktami, cikloserin)
VEZAVA NA TRANSPORTNE MOLEKULE (bacitracin)
VEZAVA NA SUBSTRAT (vankomicin, aktinoidin)
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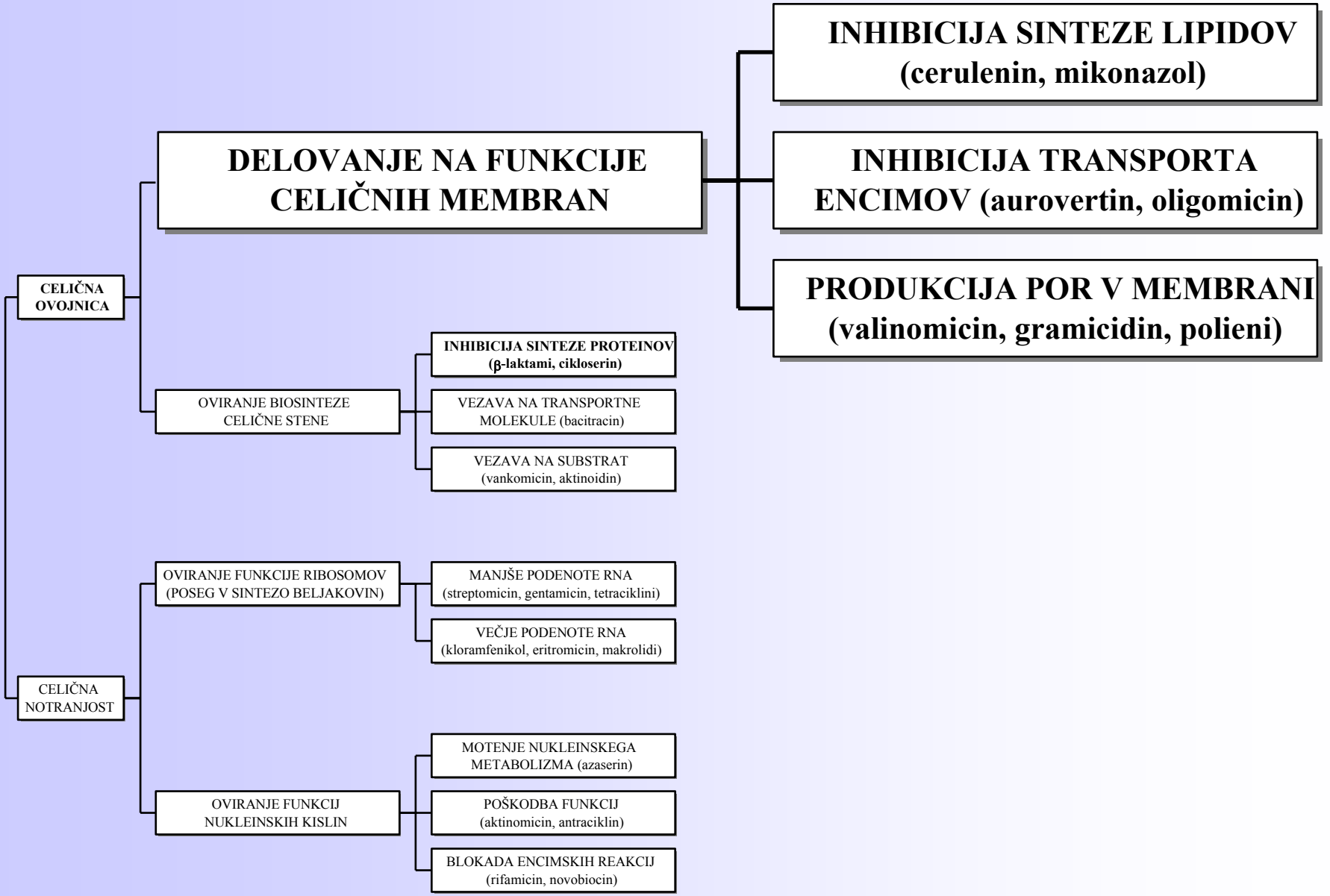
VEČJE PODENOTE RNA (kloramfenikol, eritromicin, makrolidi)
OVIRANJE FUNKCIJ NUKLEINSKIH KISLIN
MOTENJE NUKLEINSKEGA METABOLIZMA (azaserin)
POŠKODBA FUNKCIJ (aktinomicin, antraciklin)
BLOKADA ENCIMSKIH REAKCIJ (rifamicin, novobiocin)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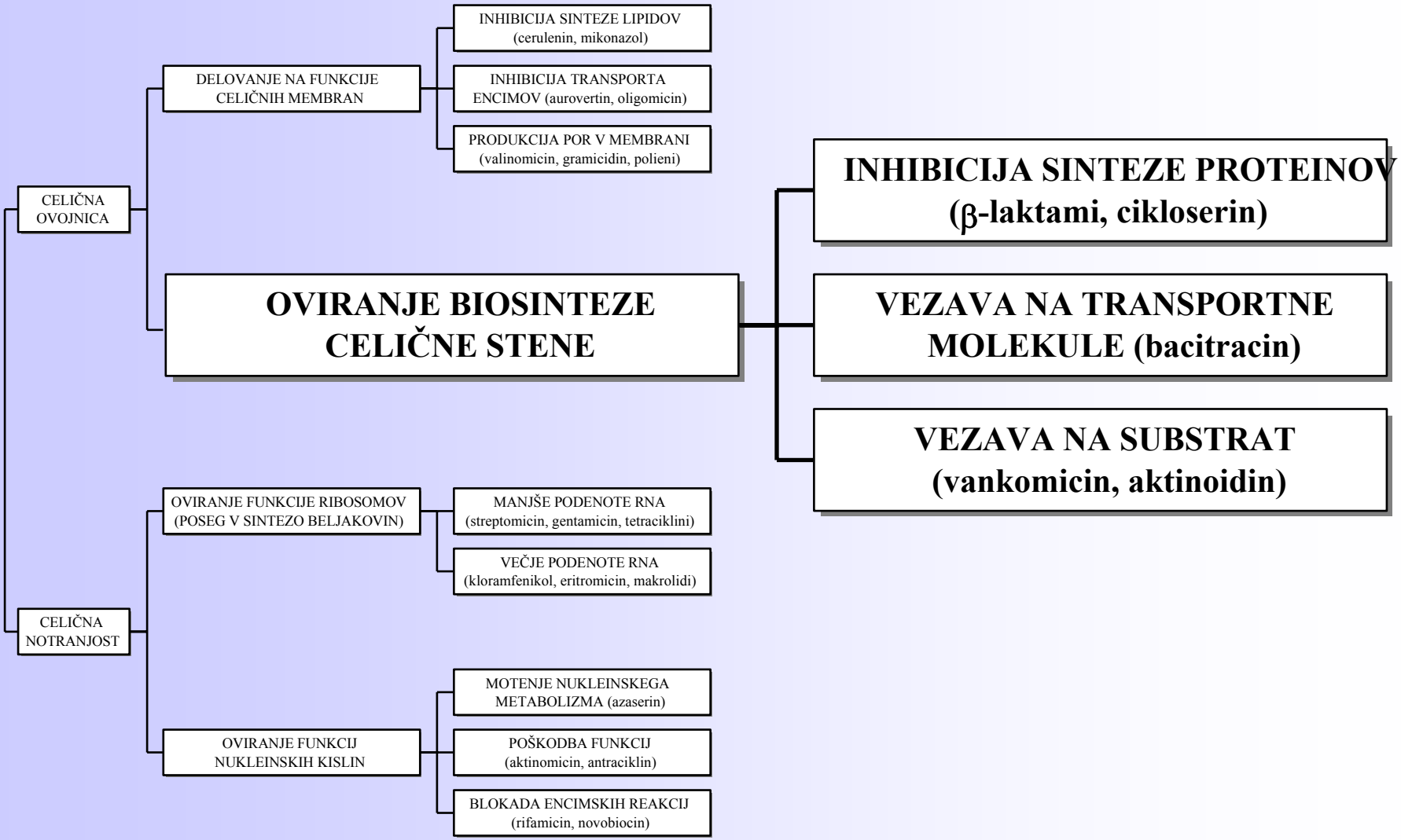
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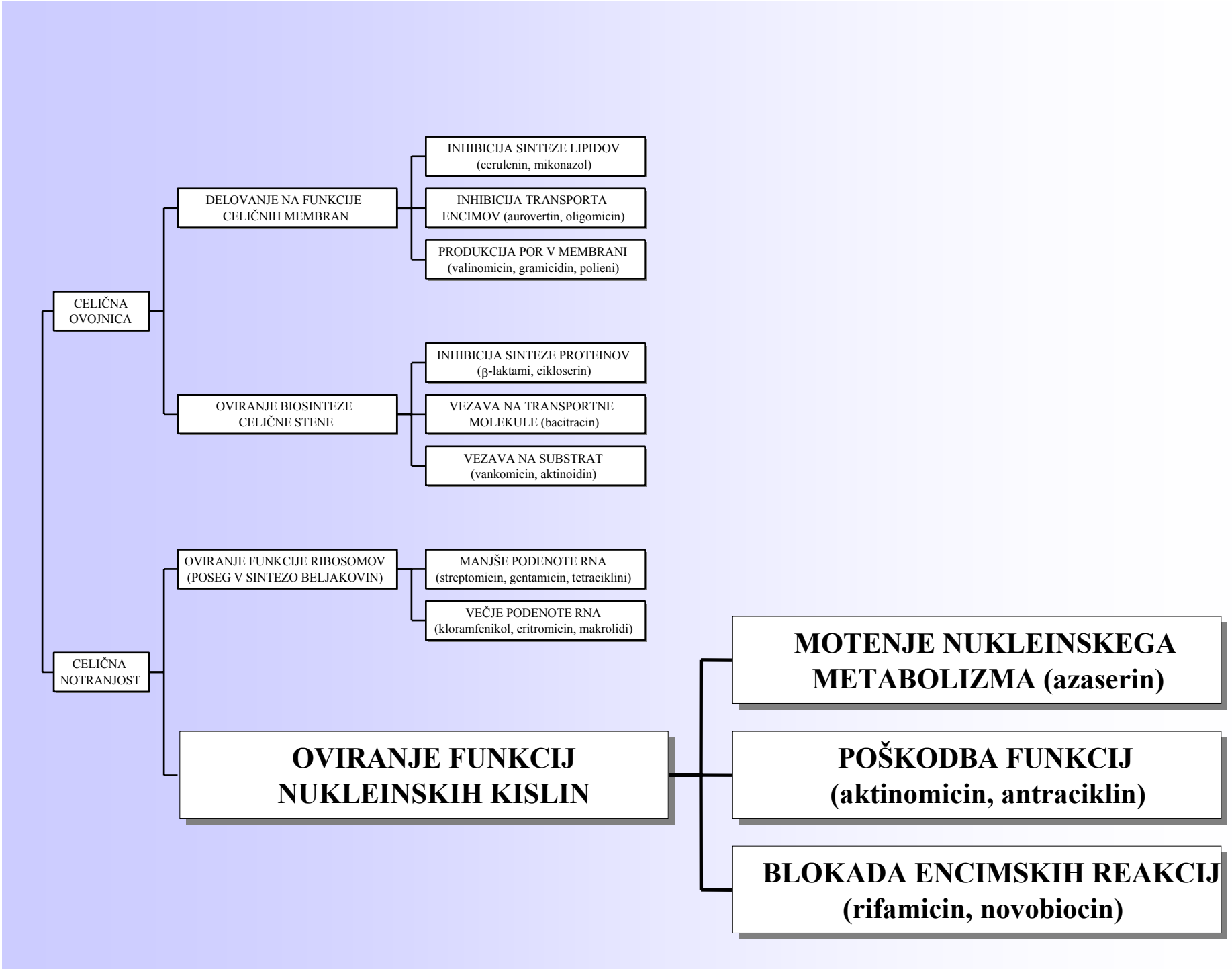
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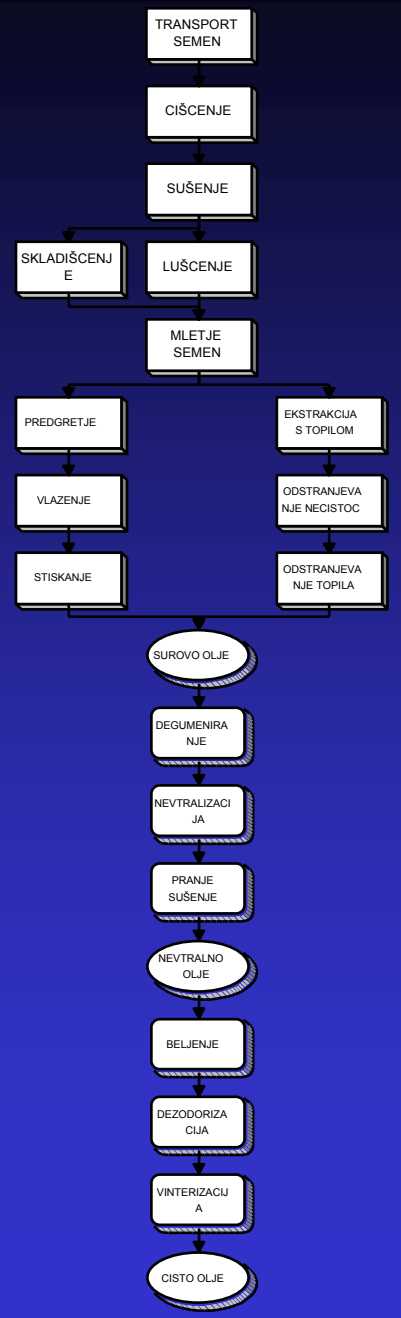
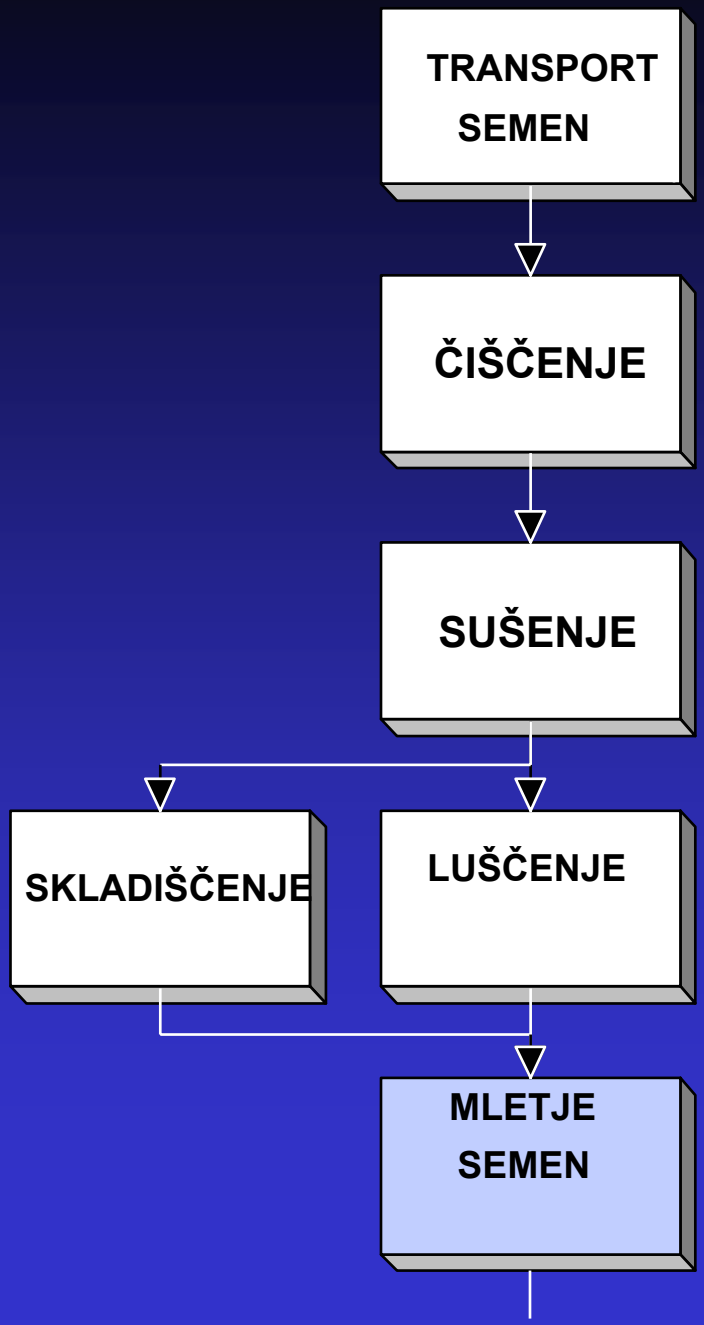
BLOKADA ENCIMSKIH REAKCIJ (rifamicin, novobiocin)

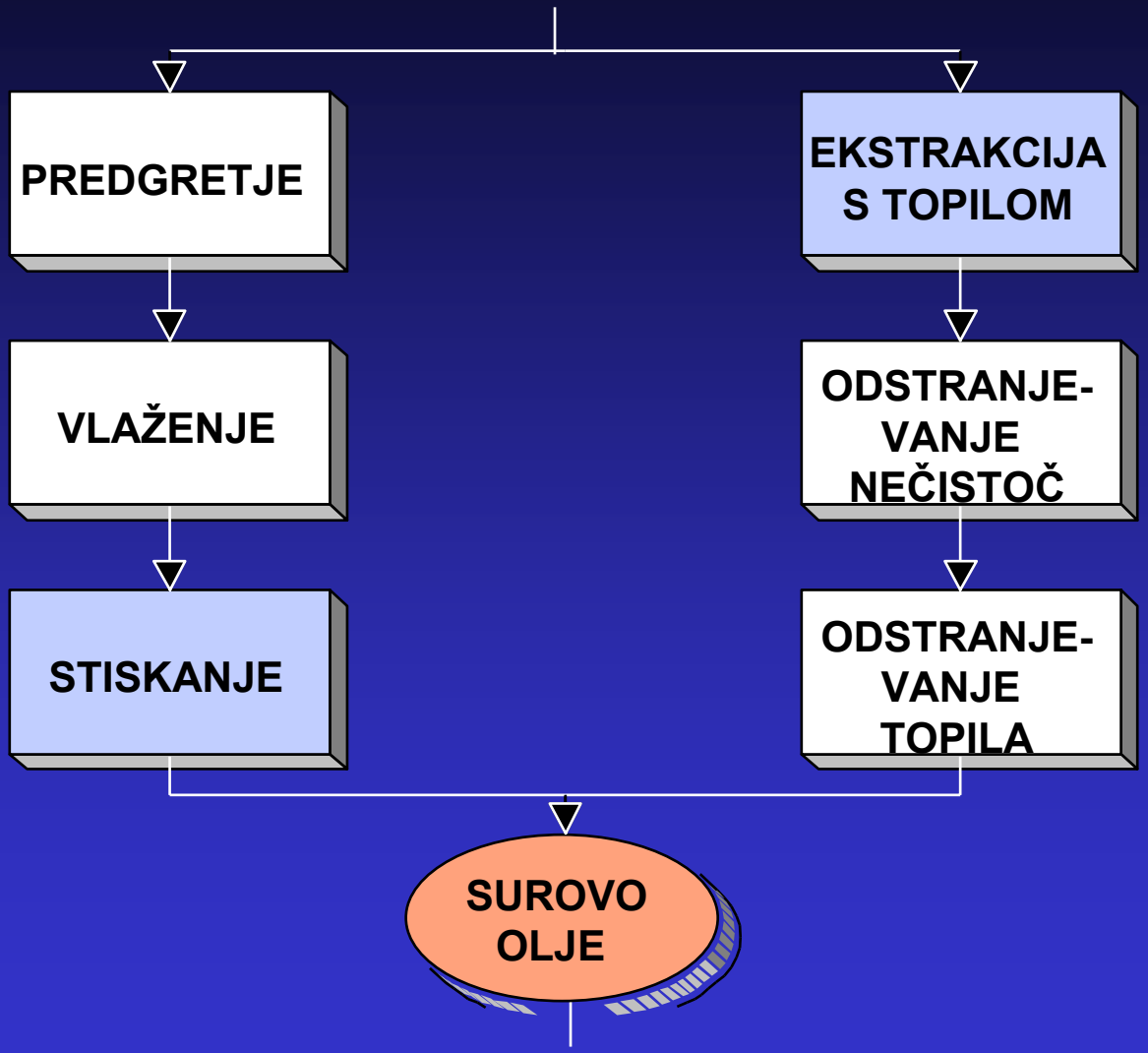
POSTOPEK PRIDOBIVANJA OLJA

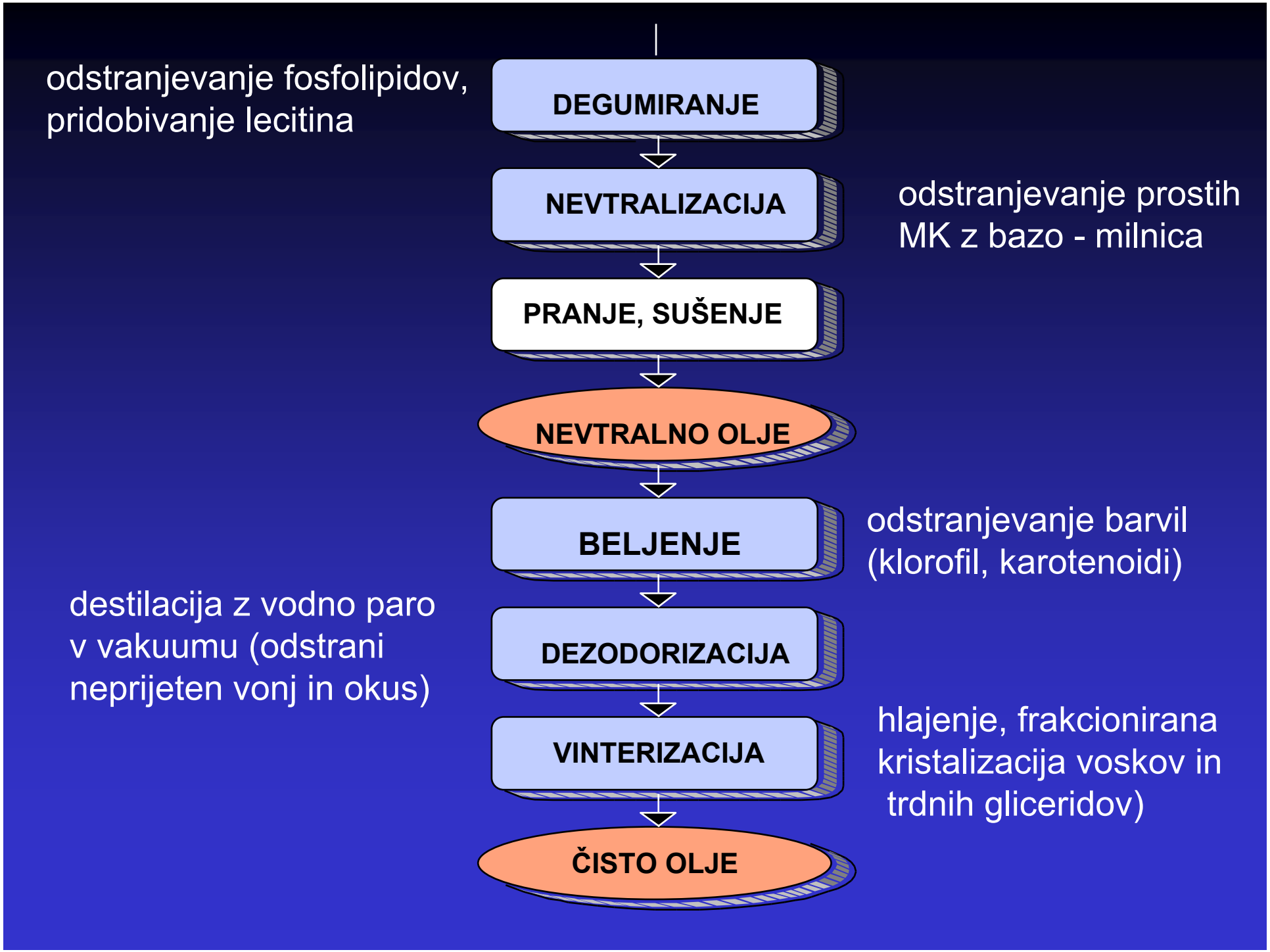


SHEMA POSTOPKA – celoten pogled



SHEMA POSTOPKA – Pregled po delih


PREDGRETJE
VLAŽENJE
STISKANJE
EKSTRAKCIJA S TOPILOM
ODSTRANJE-VANJE NEČISTOČ
ODSTRANJE-VANJE TOPILA
SUROVO OLJE

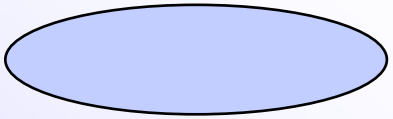

odstranjevanje fosfolipidov, pridobivanje lecitina
DEGUMIRANJE
NEVTRALIZACIJA
odstranjevanje prostih MK z bazo - milnica
PRANJE, SUŠENJE
NEVTRALNO OLJE
BELJENJE
odstranjevanje barvil (klorofil, karotenoidi)
destilacija z vodno paro v vakuumu (odstrani neprijeten vonj in okus)
DEZODORIZACIJA
VINTERIZACIJA
hlajenje, frakcionirana kristalizacija voskov in trdnih gliceridov)
ČISTO OLJE

PRIMERJAVE POSTOPKOV

Determination of information density for

designing a process backbone

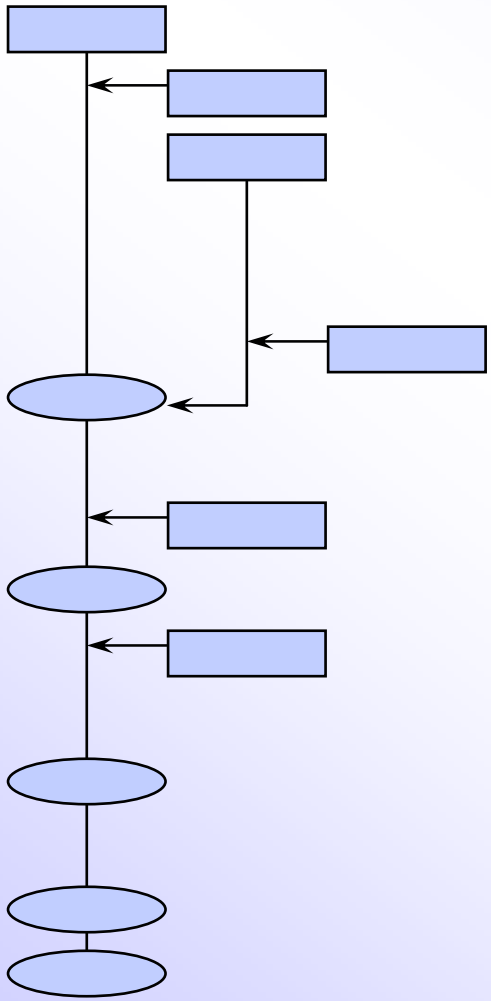
RAW MATERIALS



PROCESSES

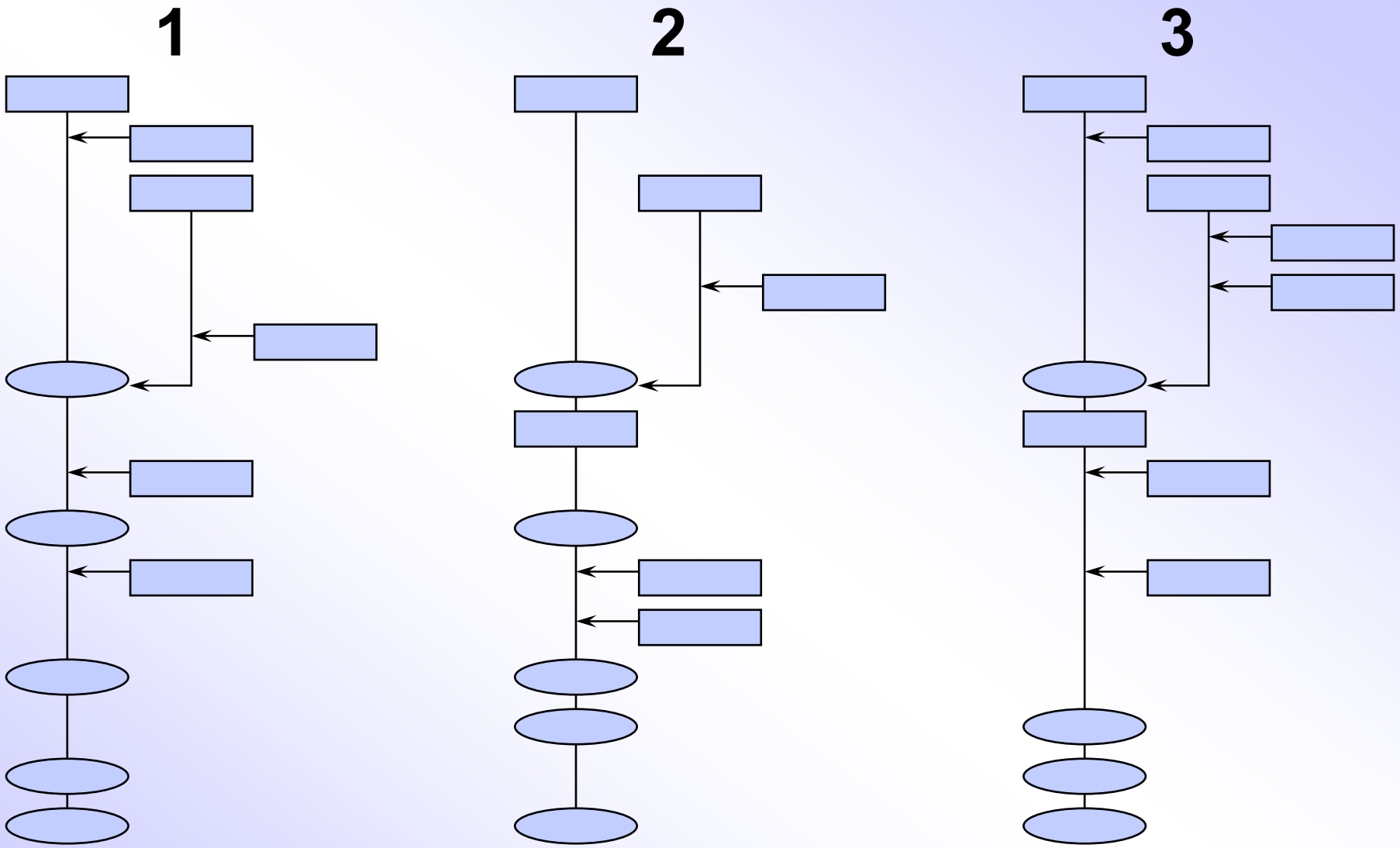
Determination of information density for

designing a process backbone



RAW MATERIALS

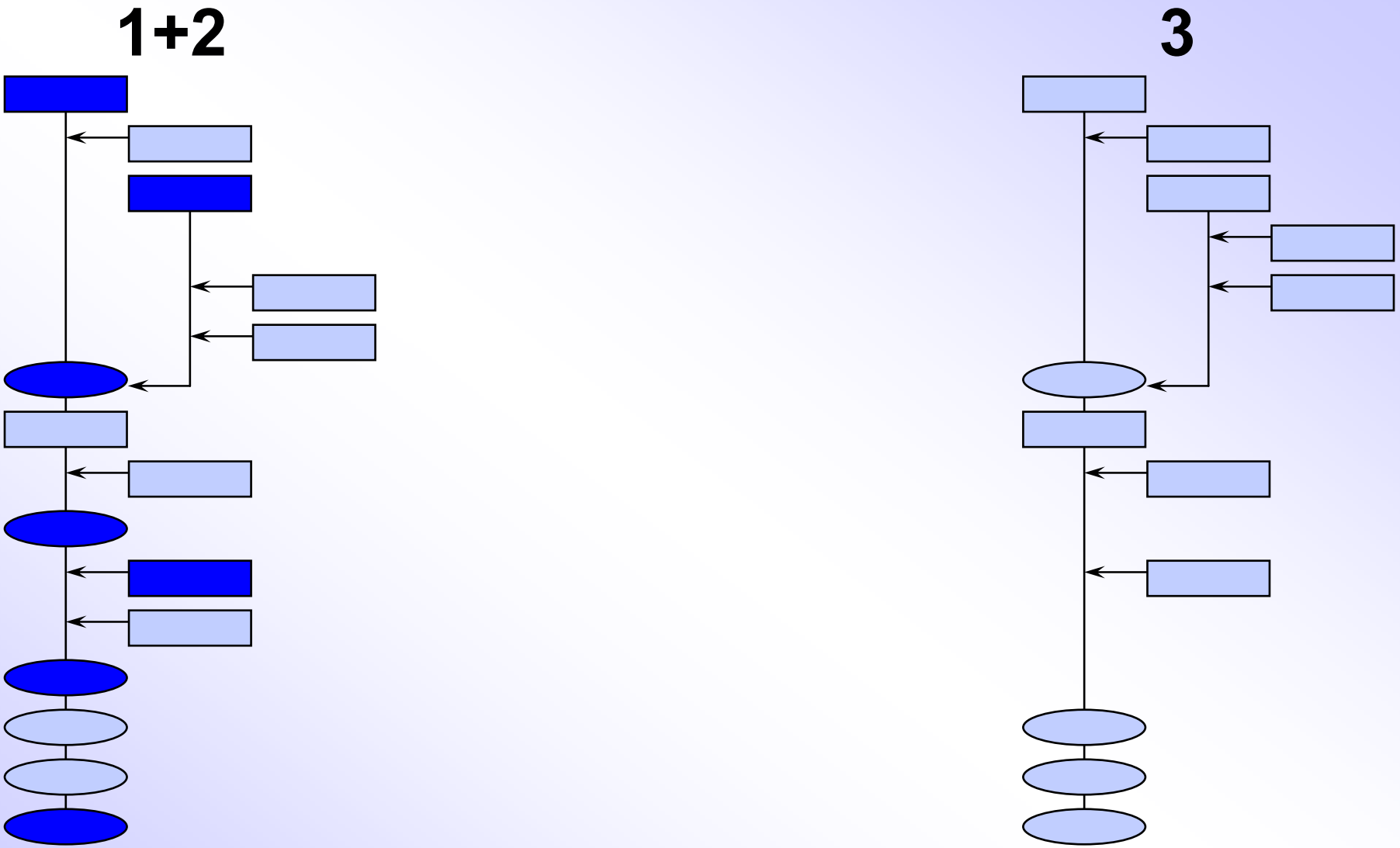
PROCESSES



COMPARISON AND OVERLAPPING OF SCHEMES

RAW MATERIALS

PROCESSES

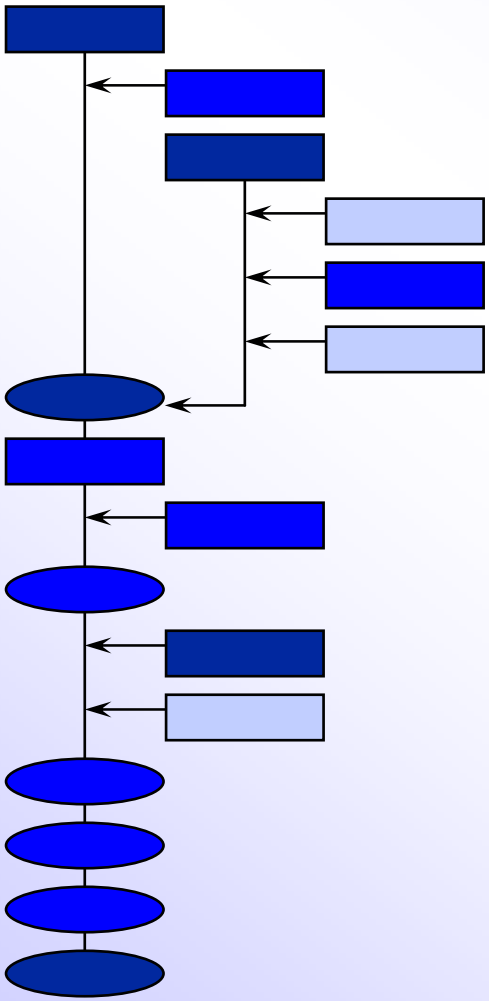


COMPARISON AND OVERLAPPING OF SCHEMES

RAW MATERIALS

PROCESSES

1+2+3

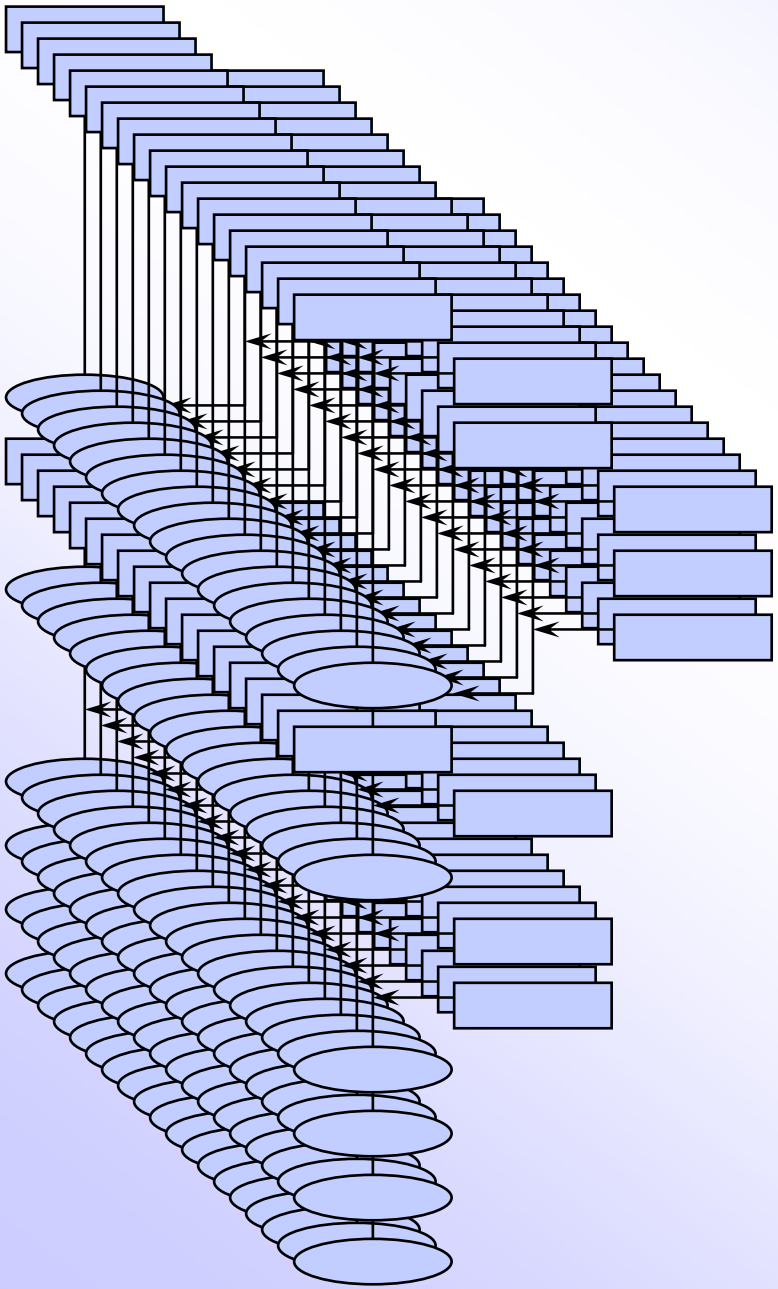


COMPARISON AND OVERLAPPING OF SCHEMES

RAW MATERIALS

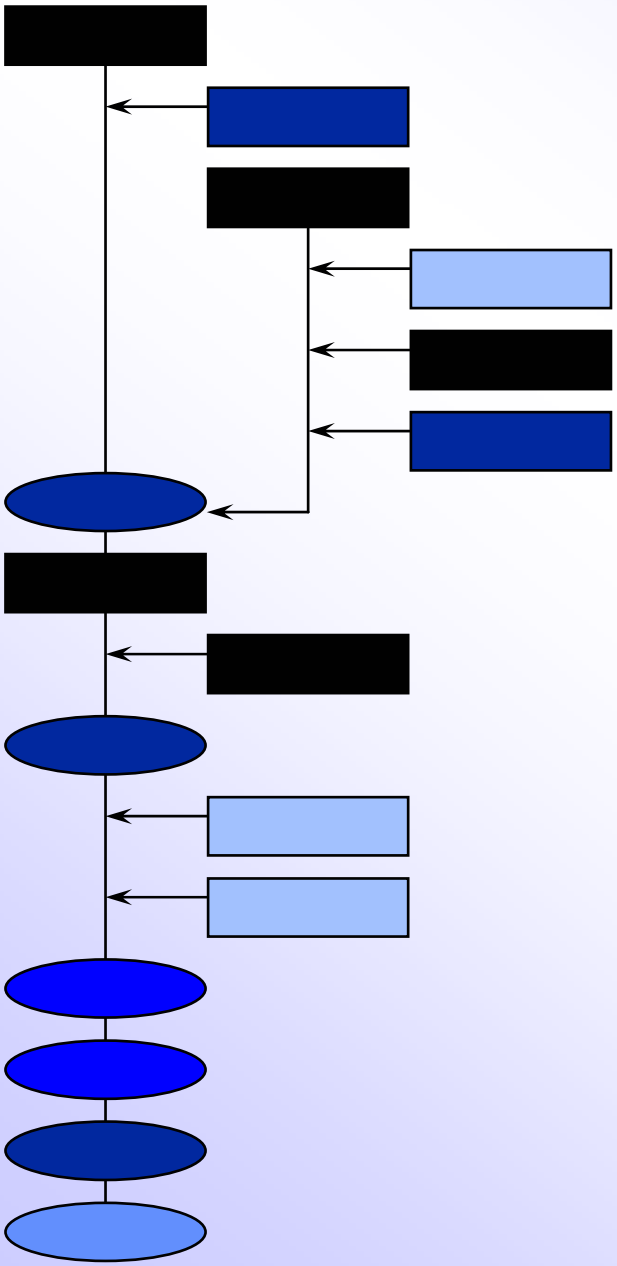
PROCESSES

1+2+3+...+n



determination of **information density** - comparing and overlapping a large number of schemes

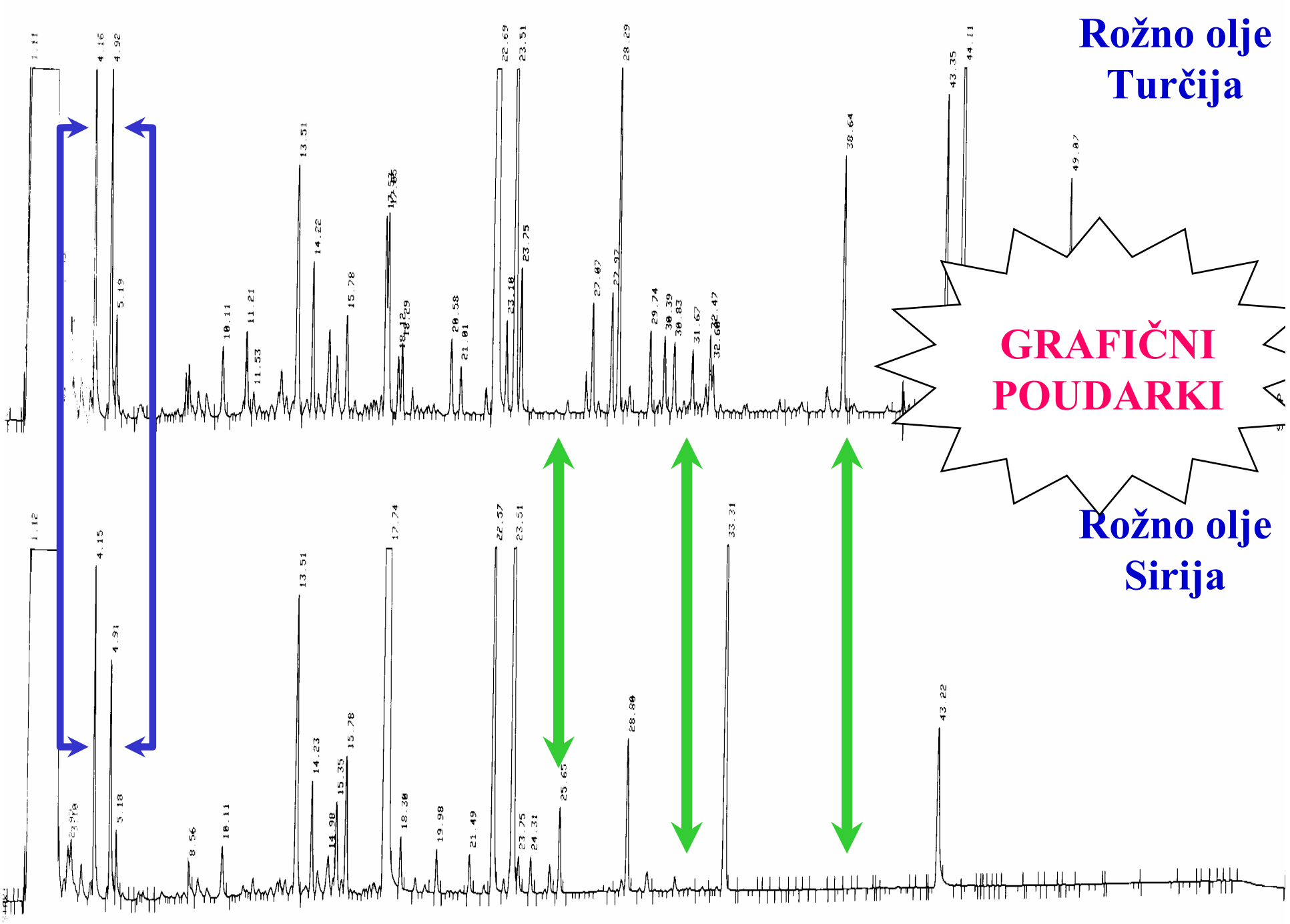
Hypothetical process backbone (for further laboratory optimisation)



Information density (predicting probability)

- 80 - 100 %
- 60 - 79 %
- 40 - 59 %
- 20 - 39 %
- < 20 %

Uporaba dodatnih učinkov

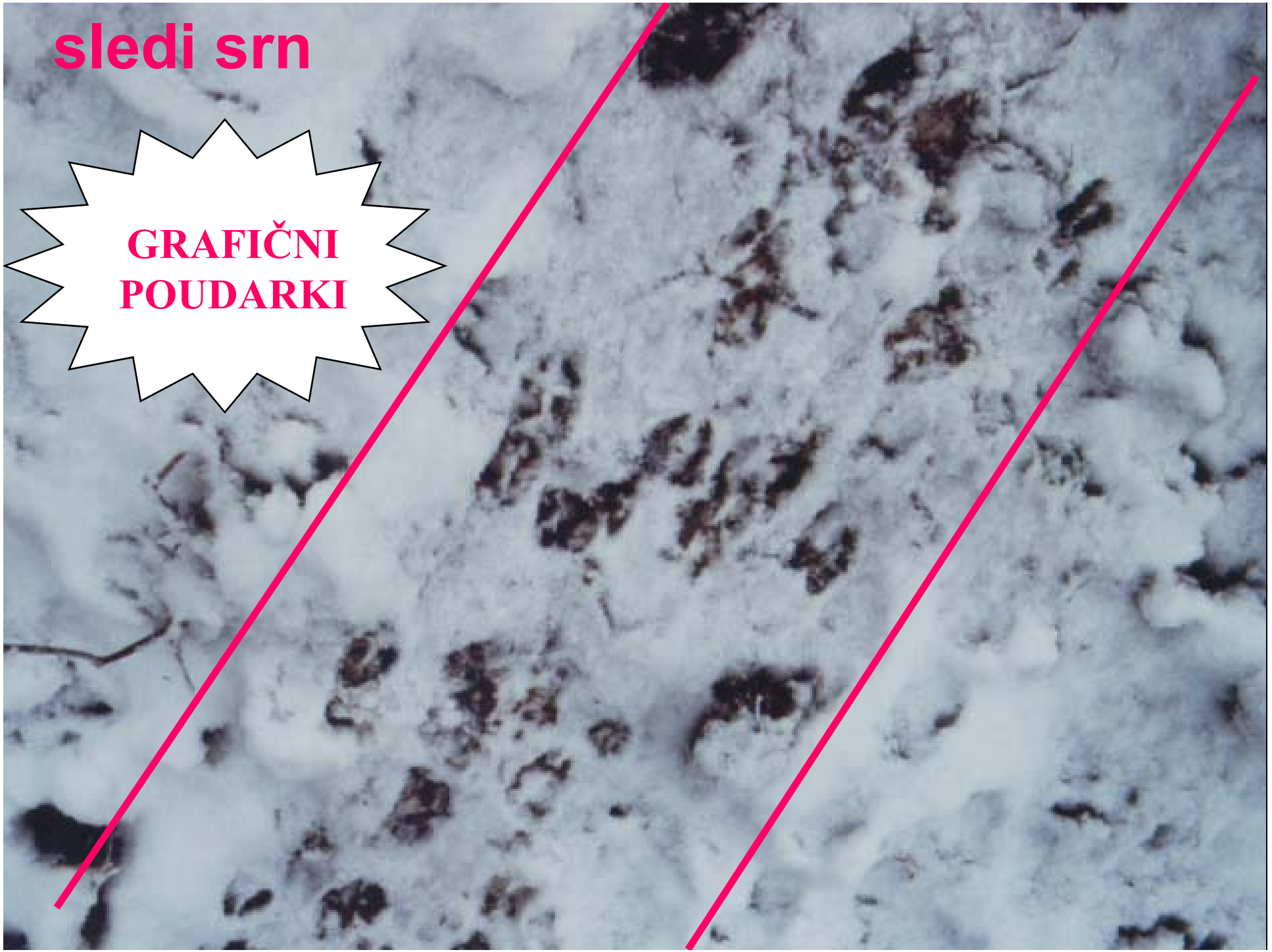

Rožno olje
Turčija
GRAFIČNI
POUDARKI
Rožno olje
Sirija

Tališče nasičenih maščobnih kislin

GRAFIČNI POUDARKI

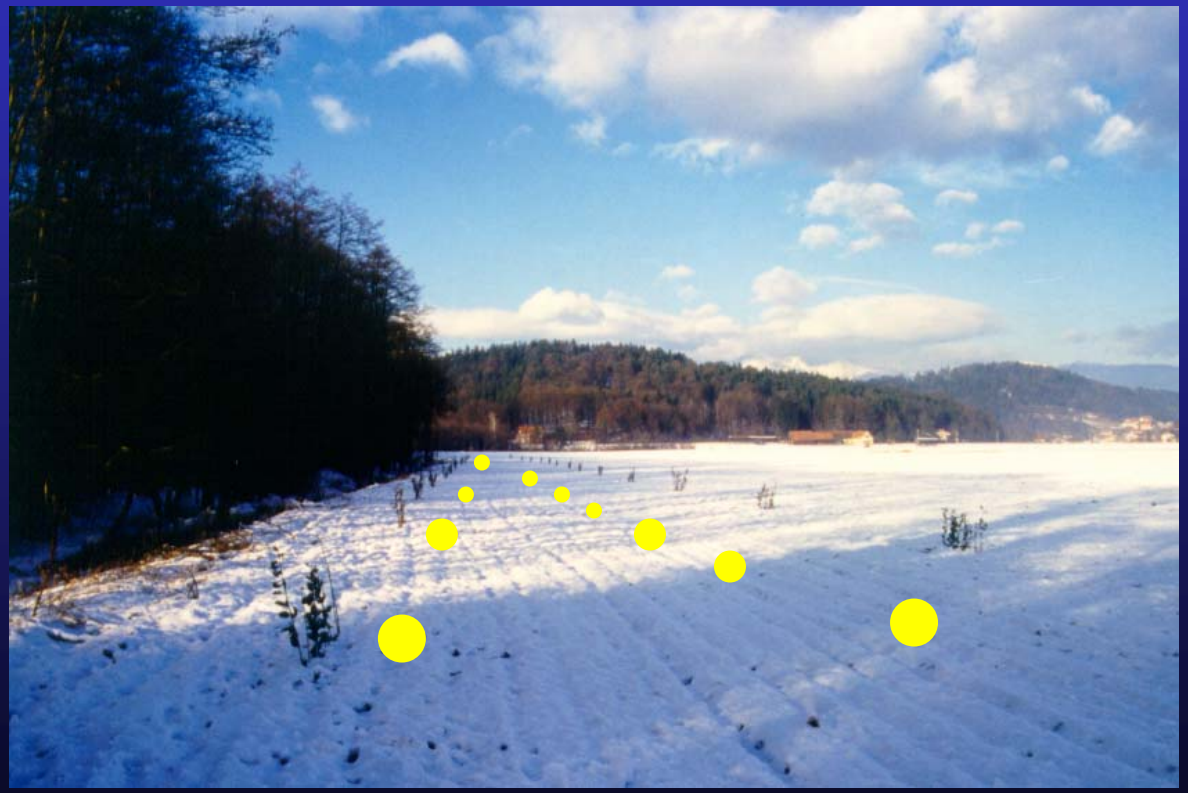
	Tališče °C
LAVRINSKA K. 12:0	44,2
MIRISTINSKA K. 14:0	53,9
PALMITINSKA K. 16:0	63,1
STEARINSKA K. 18:0	69,6
ARAHINSKA K. 20:0	76,5
LIGNOCERINSKA K. 24:0	86,0

sledi srne


sledi srn
GRAFIČNI
POUDARKI

GRAFIČNI POUDARKI

Postavitev poskusa



6 oz. 7 postopkov v 4 ponovitvah z naključnim izborom po blok metodi

razdalja med postopki 20 m

GRAFIČNI POUDARKI

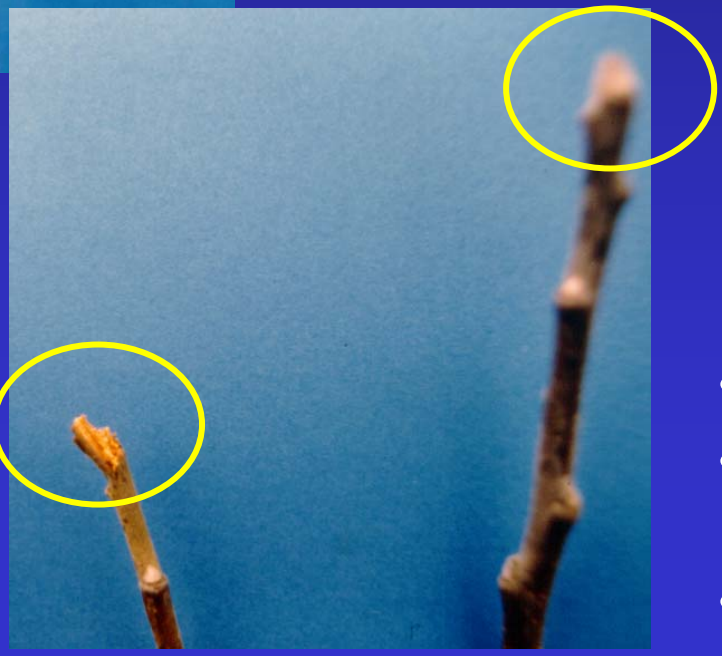
Postavitev poskusa

Ponovitev (parcelica):

vaba z 10 bohotivkami v razdalji 10 cm

GRAFIČNI POUDARKI

Ocenjevanje poškodb



Število poškodb:
seštevek poškodovanih vej v štirih ponovitvah (4 x 10 = 40)

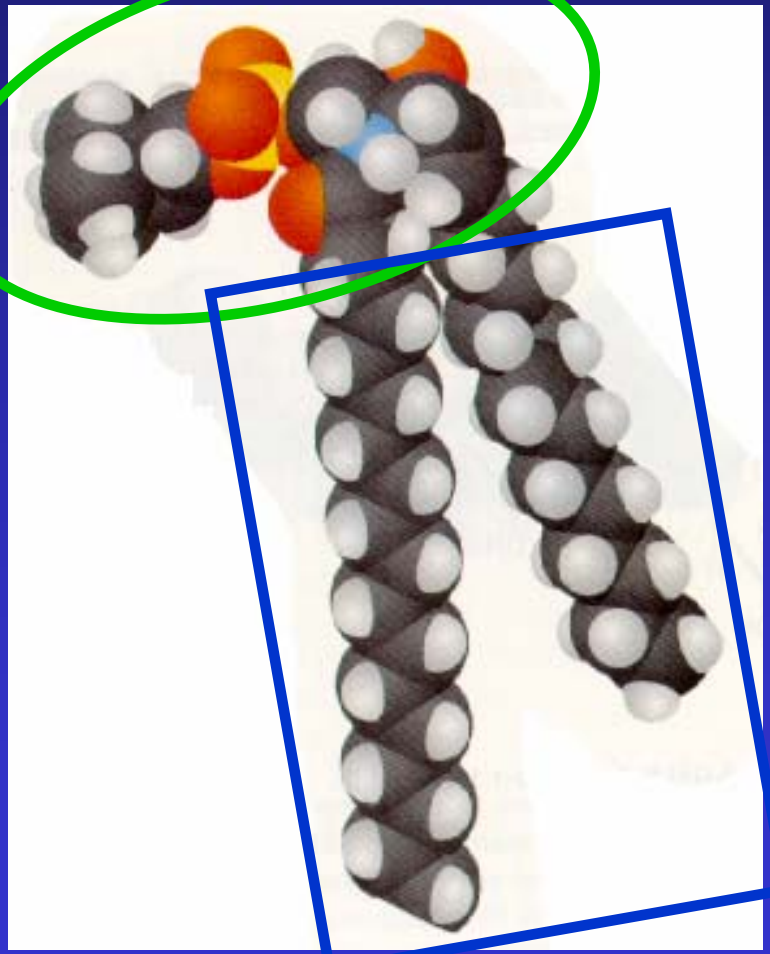
Kategorije poškodb:

- brez poškodb
- obgrizen vršiček
- obgrizeno več kot 1/3 veje

POLARNOST LIPIDOV

GRAFIČNI POUDARKI

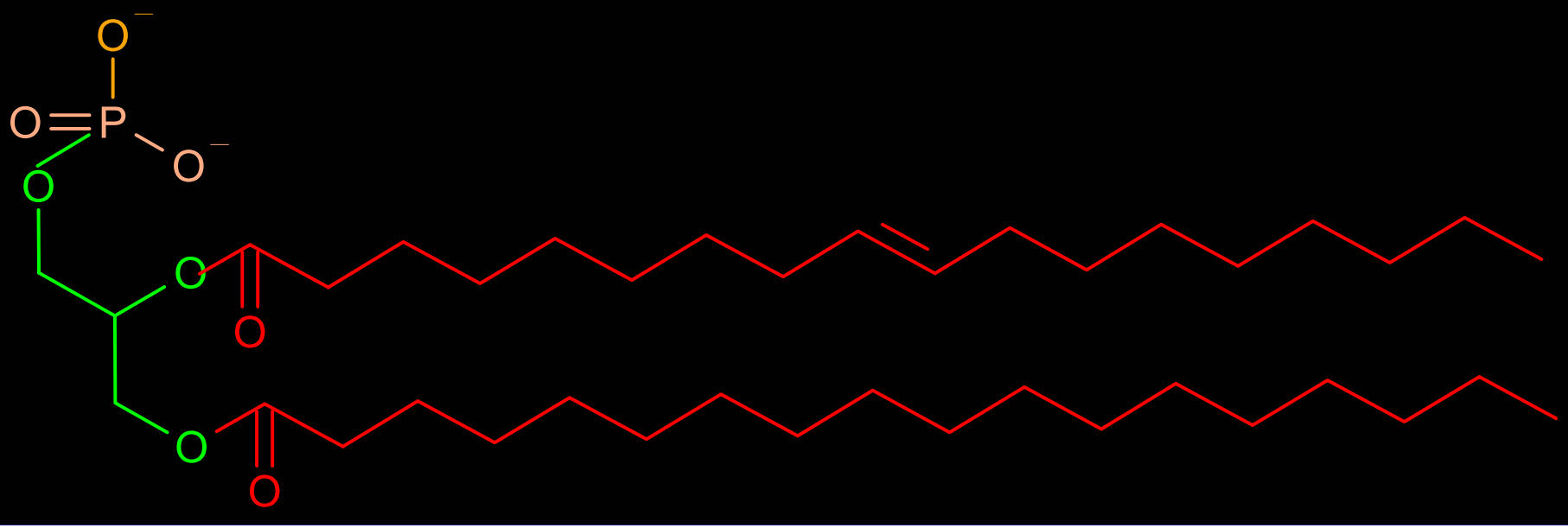
polarna glava



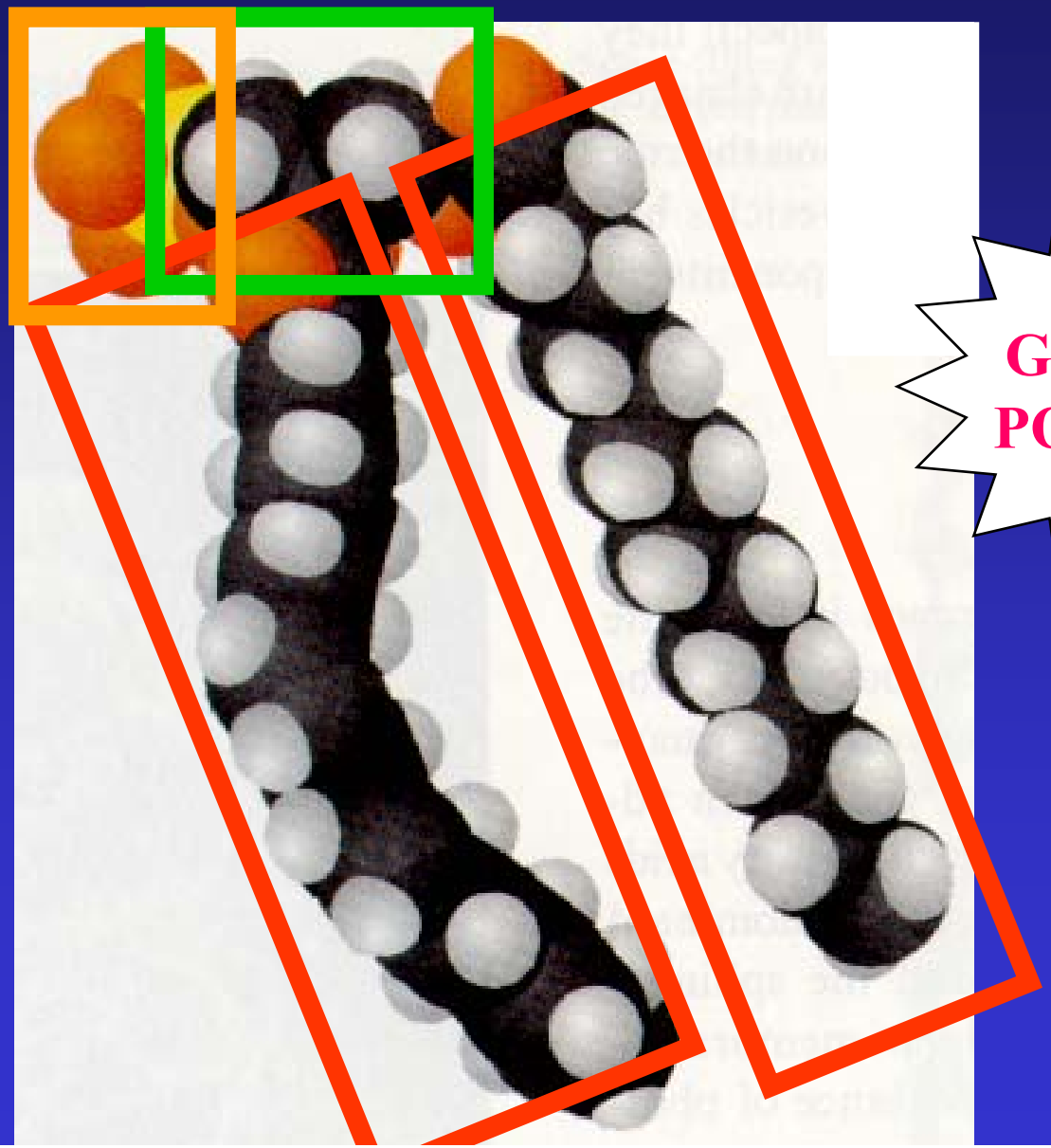
nepolarni rep

Fosfatidat (fosfatidna kislina)

GRAFIČNI POUDARKI



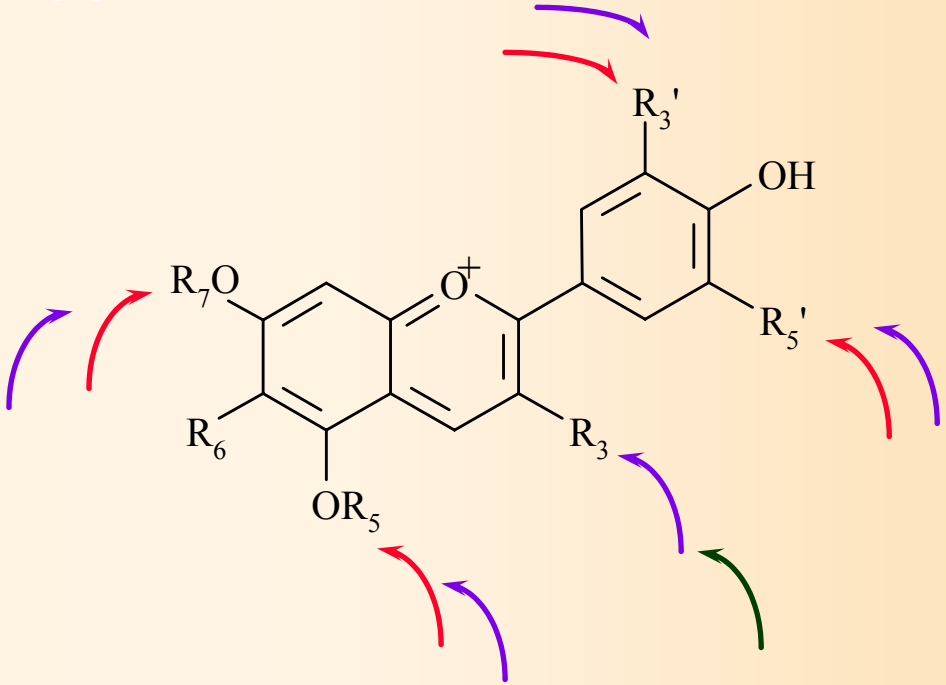
Fosfatidat (fosfatidna kislina)



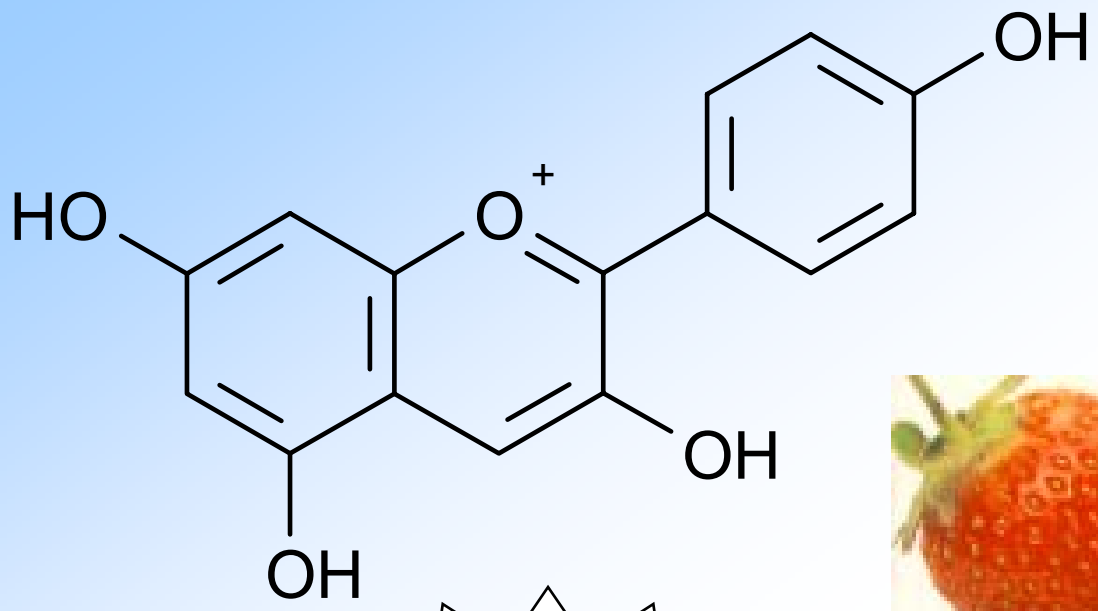
GRAFIČNI POUDARKI

Povečevanje stabilnosti

- metoksilacija
- glikozilacija
- acilacija



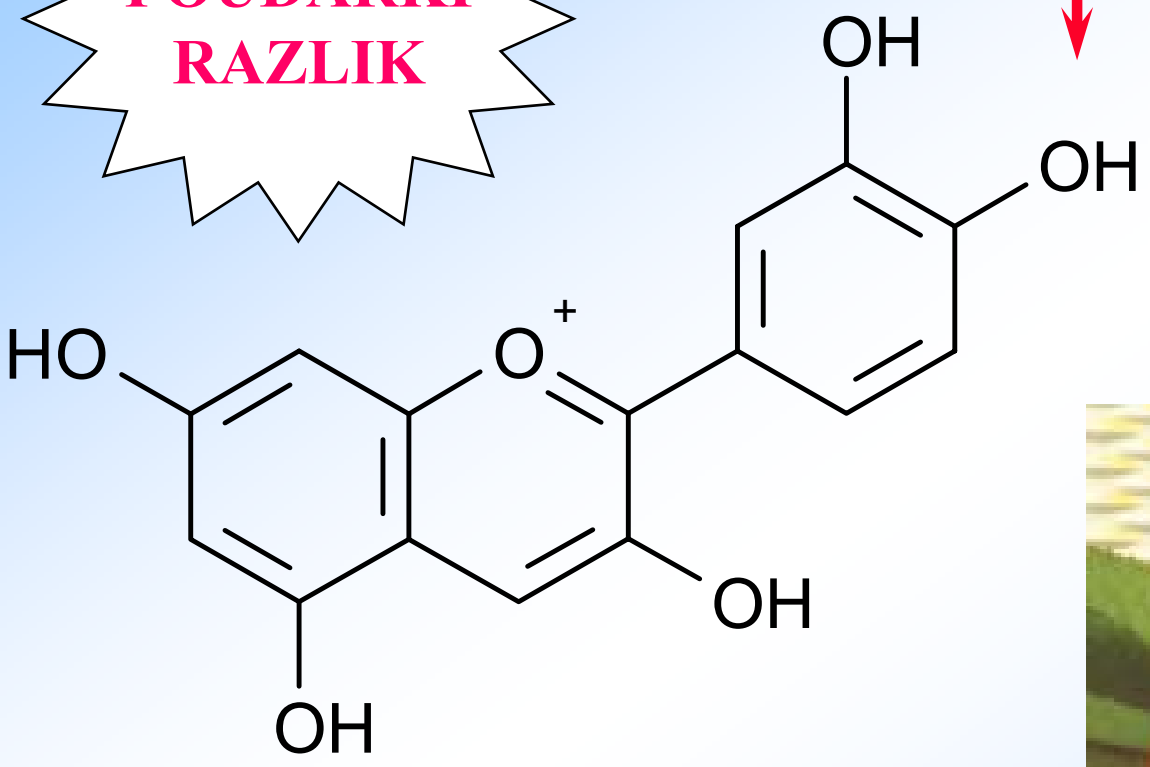
GRAFIČNI POUDARKI



POUDARKI
RAZLIK

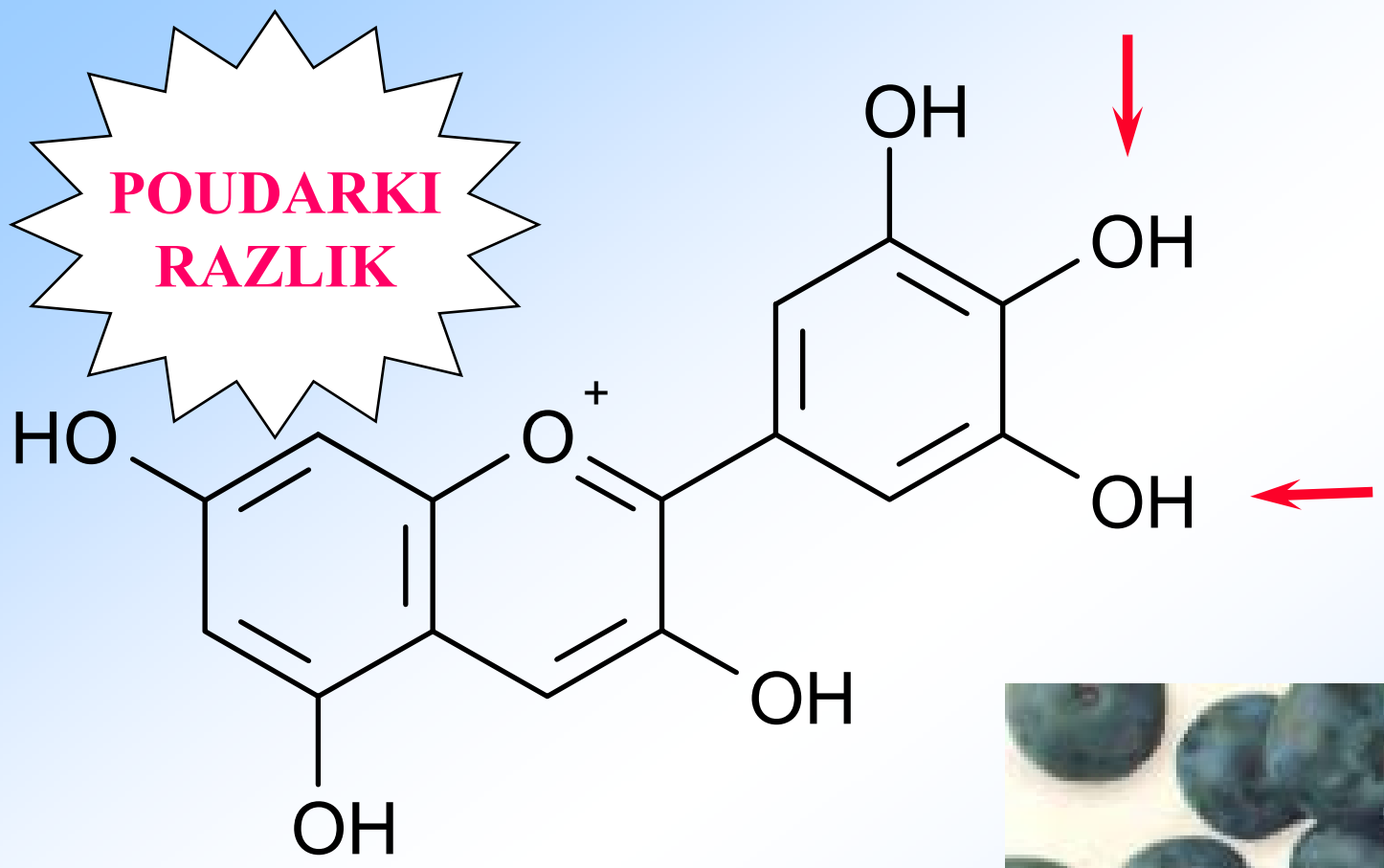
PELARGONIDIN
(npr. jagode)

POUDARKI RAZLIK



CIANIDIN
(češnje, maline, rdeči ribez, lupine jabolk...)

POUDARKI RAZLIK



DELFINIDIN
(črni ribez, borovnice, rdeče pomaranče)

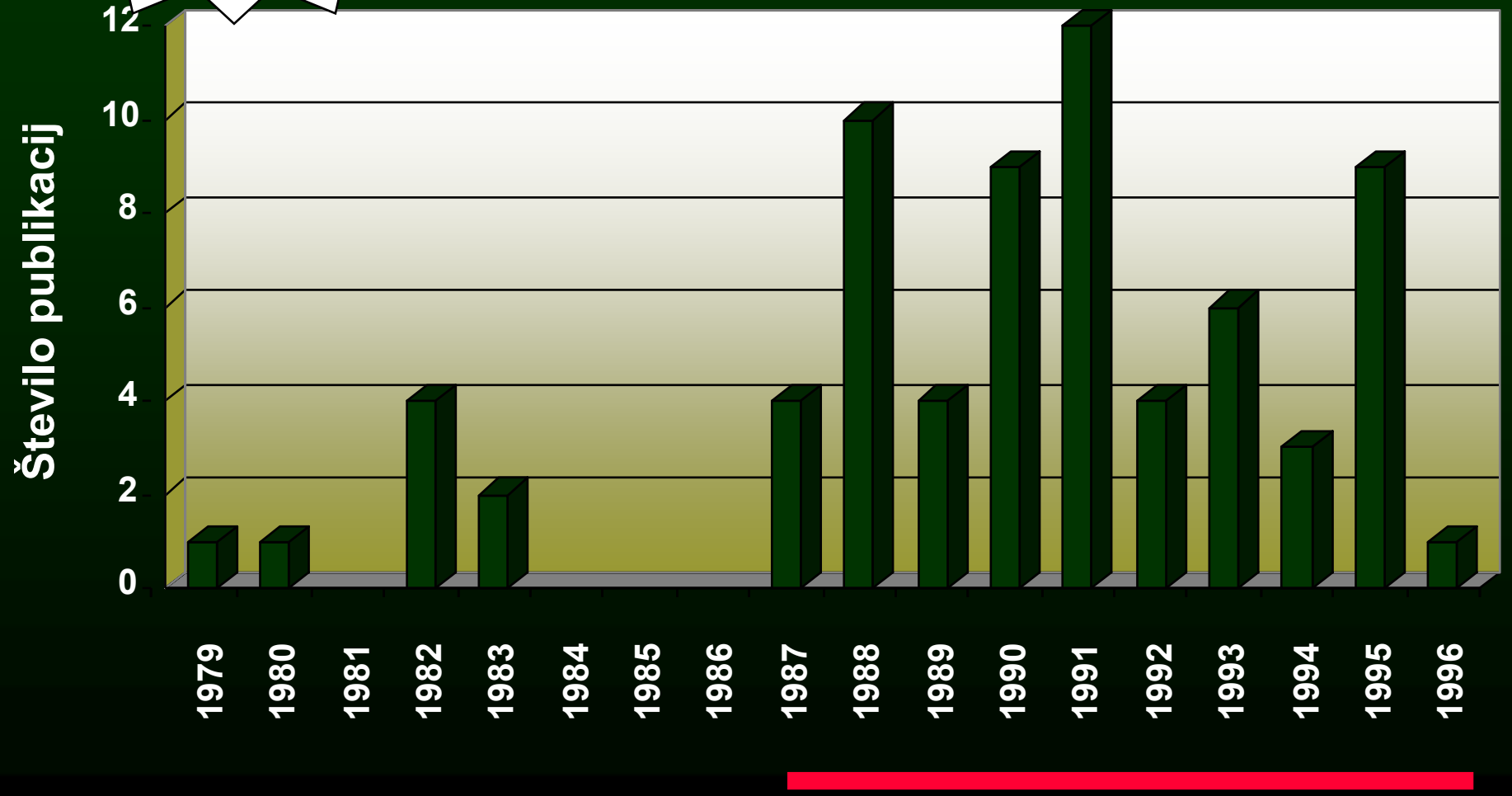
2. Poskus z repelenti in vabami z jablanovimi [illegible] za odganjanje srn in poljskih zajcev

Komentar rezultatov

Uporabljeno sredstvo	Konc., dolžina	Datum ogleda: število poškodovanih mladic							
		25. 11.	27. 11.	29. 11.	2. 12.	4. 12.	7. 12.	12. 12.	16. 12.
kontrola (netretirano)	-	-	1	1	2	3	10	10	10
DAF nekapsuliran	1%	-	-	-	3	3	6	6	10
DAF 100/1	1%	-	-	-	-	-	-	10	10
DAF 50/2	1%	-	-	-	-	-	10	10	10
DAF 100/1	5%	-	-	-	-	-	-	10	10
DAF 50/2	5%	-	-	-	-	-	-	4	6
trak fliselin 30 g/m^2	3 m	-	-	-	-	-	-	-	8
trak fliselin 20 g/m^2	3 m	-	-	-	2	2	4	5	10
DAF 100/2 CMC	premaz	-	-	-	-	-	-	-	-
DAF 50/2 CMC	premaz	-	-	-	-	-	-	-	-

Mikrokapsulirani repelenti (CA)

Komentar rezultatov



Graphic presentation of results: Microencapsulation in textiles

Komentar rezultatov