

International Conference  
**S+M(L)=KI**<sup>15</sup>

Faculty of  
Chemical  
Engineering and  
Technology  
Zagreb

Croatian  
Society of  
Chemical  
Engineers

**XV Meeting of  
Young Chemical  
Engineers**

**S+M(L)=KI**<sup>15</sup>

**22<sup>nd</sup> and  
23<sup>rd</sup>  
February  
2024**

 **EuChemS**  
European Chemical Society

[www.fkit.unizg.hr/smlki](http://www.fkit.unizg.hr/smlki)

**PROGRAM SKUPA**

**Conference Program**

XV Meeting of Young Chemical Engineers

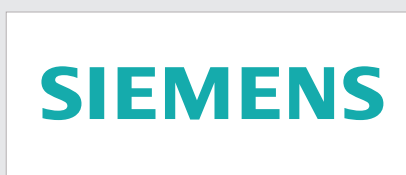
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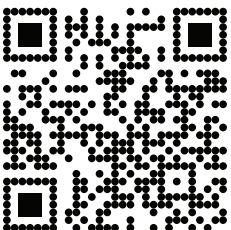


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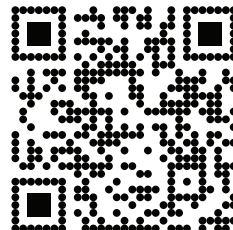


**HIS**

HRVATSKI INŽENJERSKI SAVEZ  
CROATIAN ENGINEERING ASSOCIATION



BOOK OF ABSTRACTS |  
KNJIGA SAŽETAKA



CONFERENCE PROGRAM |  
PROGRAM SKUPA



## MJESTO ODRŽAVANJA | VENUE

Sveučilište u Zagrebu Fakultet kemijskog inženjerstva i tehnologije | *University of Zagreb Faculty of Chemical Engineering and Technology*

Zagreb, Trg Marka Marulića 19 & 20

Velika dvorana   <i>Hall A</i>	Trg Marka Marulića 19
Predavaonica A – podrum   <i>Lecture room A – basement</i>	Trg Marka Marulića 19
Vijećnica   <i>Faculty Council Hall</i>	Trg Marka Marulića 19
Velika dvorana   <i>Hall B</i>	Trg Marka Marulića 20
Predavaonica B – prvi kat   <i>Lecture room B – the first floor</i>	Trg Marka Marulića 20
Klub nastavnika – podrum   <i>The Faculty Club – basement</i>	Trg Marka Marulića 20

## PRIJAVE SUDIONIKA | REGISTRATIONS

Ulazni hol u glavnoj zgradi | *Entrance hall in the main building* Trg Marka Marulića 19

Četvrtak, 22. veljače 2024. | *Thursday, 22<sup>nd</sup> February 2024* 08:00 – 17:00

Petak, 23. veljače 2024. | *Friday, 23<sup>rd</sup> February 2024* 08:00 – 10:00

## OTVARANJE SUSRETA | OPENING CEREMONY

Velika dvorana | *Hall A* Trg Marka Marulića 19

Četvrtak, 22. veljače 2024. | *Thursday, 22<sup>nd</sup> February 2024* 09:00 – 10:00

## USMENA IZLAGANJA | ORAL PRESENTATIONS

Velike dvorane, prema rasporedu | *Hall A & B, according to the timetable* Trg Marka Marulića 19 & 20

Četvrtak, 22. veljače 2024. | *Thursday, 22<sup>nd</sup> February 2024* 10:00 – 16:45

Petak, 23. veljače 2024. | *Friday, 23<sup>rd</sup> February 2024* 09:00 – 16:30

## POSTERI | POSTERS

Predavaonice A i B, podrum, prema rasporedu | *Lecture rooms A & B – basement and the first floor, according to the timetable* Trg Marka Marulića 19 & 20

Četvrtak, 22. veljače 2024. | *Thursday, 22<sup>nd</sup> February 2024* 09:00 – 17:45 posteri s brojem | *posters with number 1 – 66*

Petak, 23. veljače 2024. | *Friday, 23<sup>rd</sup> February 2024* 09:00 – 15:30 posteri s brojem | *posters with number 67 – 133*

Postere je potrebno postaviti na panoe na dan definiran rasporedom ujutro (8:00 – 9:00 h) i skinuti na kraju dana. | *Posters should be placed on the boards in the morning (8:00 – 9:00 h) according to the timetable and be removed at the end of the day.*

## POSTERSKA SEKCIJA | POSTER SESSION

Četvrtak, 22. veljače 2024. | Thursday, 22<sup>nd</sup> February 2024

16:45 – 17:45

Predavaonica A | Lecture room A  
Trg Marka Marulića 19

posteri s brojem | posters with number 1 – 31

Predavaonica B | Lecture room B  
Trg Marka Marulića 20

posteri s brojem | posters with number 32 – 66

Petak, 23. veljače 2024. | Friday, 23<sup>rd</sup> February 2024

14:30 – 15:30

Predavaonica A | Lecture room A  
Trg Marka Marulića 19

posteri s brojem | posters with number 67 – 100

Predavaonica B | Lecture room B  
Trg Marka Marulića 20

posteri s brojem | posters with number 101 – 133

Mole se autori da budu pokraj postera za vrijeme posterske sekcije. |  
Authors are kindly invited to stand by their posters during poster session.

## STANKA ZA KAVU | COFFEE BREAK

Vijećnica | Faculty Council Hall

Trg Marka Marulića 19

## ZATVARANJE SUSRETA I DODJELA NAGRADA | CLOSING CEREMONY AND AWARDS

Velika dvorana | Hall A

Trg Marka Marulića 19

Petak, 23. veljače 2024. |  
Friday, 23<sup>rd</sup> February 2024

17:00 – 17:30

## DOMJENAK | BANQUET

Klub nastavnika – podrum | The Faculty Club – basement

Trg Marka Marulića 20

Petak, 23. veljače 2024. |  
Friday, 23<sup>rd</sup> February 2024

17:45 –

09:00 – 10:00 Otvaranje Susreta | *Opening ceremony*

Velika dvorana | *Hall A*

Trg Marka Marulića 19

**PLENARNO PREDAVANJE | *PLENARY LECTURE***

Moderatori | *Chairs:* Željka Ujević Andrijić, Krunoslav Žižek

10:00 – 11:00 **Bojan Jerbić**  
UMJETNA INTELIGENCIJA – IZAZOV DIGITALNE BUDUĆNOSTI  
*ARTIFICIAL INTELLIGENCE – THE CHALLENGE OF THE DIGITAL FUTURE*

11:00 – 11:45 **STANKA ZA KAVU | *COFFEE BREAK***

**POZVANA PREDAVANJA | *INVITED LECTURES***

Moderatori | *Chairs:* Krunoslav Žižek, Marin Kovačić

11:45 – 12:15 **Maša Safundžić Kučuk**  
KAKO FAKULTETSKO GRADIVO POSTAJE LIJEK: PUSTOLOVINA OD KNJIGE DO LJEKARNE  
*HOW COLLEGE MATERIAL BECOMES MEDICINE: ADVENTURES FROM BOOK TO PHARMACY*

12:15 – 12:45 **Ivan Güttler**  
KLIMATSKE PROMJENE: SAŽETAK NAJNOVIJEG ZBIRNOG IZVJEŠĆA MEĐUVLADINOG PANELA O KLIMATSKIM PROMJENAMA (IPCC)  
*CLIMATE CHANGE: SUMMARY OF THE LATEST INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC) REPORT*

12:45 – 13:15 **Primož Jovanovič**  
*EN ROUTE TO SUSTAINABLE OXYGEN ELECTROCATALYSIS: EMPLOYMENT OF ADVANCED ELECTROCHEMICAL METHODS*

13:15 – 14:15 **STANKA ZA KAVU | *COFFEE BREAK***

## USMENA IZLAGANJA | ORAL PRESENTATIONS

Velika dvorana | Hall A

Trg Marka Marulića 19

### Biokemijsko inženjerstvo | Biochemical engineering

Moderatori | Chairs: Anita Šalić, Monika Šabić Runjavec

- 14:15 – 14:30**     **Mehmet Mervan Čakar**, Theofania Andreadaki, Simon Charnock, Wolf-Dieter Fessner, Zvezdana Findrik Blažević  
*KINETIC CHARACTERIZATION OF BIOCATALYSTS IN SYNTHESIS OF N-ACETYLNEURAMINIC ACID*
- 14:30 – 14:45**     **Petra Maleš**, Danijela Bakarić  
*THE SIGNIFICANCE OF CHOLESTEROL FOR MYELIN LIPID PHASES*
- 14:45 – 15:00**     **Nika Bilić**, Renata Biba, Mario Cindrić  
*DEVELOPMENT OF MULTIDIMENSIONAL CHROMATOGRAPHY FOR SEPARATION OF PEPTIDES USING AUTOMATED SOLID-PHASE MICROEXTRACTION*

### 15:00 – 15:30     STANKA ZA KAVU | COFFEE BREAK

### Razvoj materijala i proizvoda | Materials and products development

Moderatori | Chairs: Marin Kovačić, Zvonimir Katančić

- 15:30 – 15:45**     **Luka Dornjak**, Anamarija Rogina  
*CHITOSAN/BIOACTIVE GLASS SCAFFOLDS AS POTENTIAL DRUG CARRIERS*
- 15:45 – 16:00**     **Mateja Filković**, Maja Mihoci, Tea Mihelj Josipović, Iva Perić, Domagoj Vrsaljko  
*CHALLENGES OF GLASS AS A PRIMARY PACKAGING MATERIAL FOR BLACK ALKALINE STERILE FORMULATION*
- 16:00 – 16:15**     **Antonio Močinić**, Ozana Mišura, Marijana Đaković  
*CRYSTALS UNDER MECHANICAL STRESS: UNRAVELING FLEXIBLE RESPONSIVENESS*
- 16:15 – 16:30**     **Danica Jovašević**  
*SYNTHESIS OF POLYAMIDO-SILOXANES*
- 16:30 – 16:45**     **Ivana Trkulja**, Jelena Tanasić, Marija Kostić, Ivan Ristić  
*DEVELOPMENT OF POLYMER HYDROGELS FOR BIOMEDICAL APPLICATION*

### 16:45 – 17:45     POSTERSKA SEKCIJA | POSTER SESSION

Predavaonica A – podrum | Lecture room A – basement

Trg Marka Marulića 19

posteri s brojem | posters with number 1 - 31

### Godišnja HDKI skupština | Annual Assembly of CSCE

Klub nastavnika | The Faculty Club – basement

Trg Marka Marulića 20

14:00 – 15:00

## USMENA IZLAGANJA | ORAL PRESENTATIONS

Velika dvorana | Hall B

Trg Marka Marulića 20

### Kemijsko inženjerstvo | Chemical engineering

Moderatori | Chairs: Željka Ujević Andrijić, Ana Petračić

- 14:15 – 14:30**      **David Fabek**  
DIGITALNI BLIZANAC INDUSTRIJSKOG POSTROJENJA  
*DIGITAL TWIN OF AN INDUSTRIAL PLANT*
- 14:30 – 14:45**      **Anabela Ljubić**, Ivan Karlo Cingesar, Domagoj Vrsaljko, Anita Šalić, Irena Škorić  
*DEVELOPMENT OF AN INTEGRATED MILLISYSTEM FOR CONTINUOUS SYNTHESIS AND SEPARATION OF RESVERATROL ANALOGUES*
- 14:45 – 15:00**      **Ivana Stojmilović**, Tomislav Domanovac, Monika Šabić Runjavec, Martina Trtinjak, Marija Vuković Domanovac  
*KINETIC MODELLING EX-SITU BIOREMEDIATION OF LEACHATE*

**15:00 – 15:30**

### STANKA ZA KAVU | COFFEE BREAK

### Primijenjena kemija | Applied chemistry

Moderatori | Chairs: Andrej Vidak, Dragana Vuk

- 15:30 – 15:45**      **Marko Zubak**, Sara Krivačić, Željka Boček, Petar Kassal  
*FABRICATION OF AN INKJET-PRINTED ELECTROCHEMICAL AZITHROMYCIN SENSOR USING INTENSE PULSED LIGHT*
- 15:45 – 16:00**      **Ines Cazin**, Milena Olga Gleirscher, Mathias Fleisch, Marco Sangermano, Sandra Schlögl  
*SPATIALLY CONTROLLING THE MECHANICAL PROPERTIES OF 3D PRINTED OBJECTS BY DUAL-WAVELENGTH DIGITAL LIGHT PROCESSING*
- 16:00 – 16:15**      **André Cabrita**, Sandra Gomes, Jaime Fernandes, Nuno Alvarenga, Paulo Cameira dos Santos, Miguel Minhalma  
*CONCENTRATION AND PURIFICATION OF CARDOON (*Cynara cardunculus* L.) FLOWER EXTRACTS BY ULTRAFILTRATION*
- 16:15 – 16:30**      **Nikolina Beljan**, Ivan Nemet, Sanda Rončević  
*MORFOLOŠKE ZNAČAJKE ŽELJEZOVIH NANOČESTICA PRI SORPCIJI ODABRANIH IONA LANTANOIDA*  
*MORPHOLOGICAL CHARACTERISTICS OF IRON NANOPARTICLES AFTER LANTHANIDES ION SORPTION*
- 16:30 – 16:45**      **Karla Kukina Gradečak**, Katarina Leko, Andrea Usenik, Nikola Cindro, Vladislav Tomišić  
*KOMPLEKSIRANJE ALKALIJSKIH I ZEMNOALKALIJSKIH KATIONA S TERCIJARNIM AMIDNIM DERIVATOM KALIKS[6]ARENA*  
*COMPLEXATION OF ALKALI AND ALKALINE EARTH METAL CATIONS BY TERTIARY-AMIDE CALIX[6]ARENE DERIVATIVE*

**16:45 – 17:45**

### POSTERSKA SEKCIJA | POSTER SESSION

Predavaonica B – prvi kat | Lecture room B – the first floor

Trg Marka Marulića 20

posteri s brojem | posters with number 32 – 66

**PLENARNO PREDAVANJE | PLENARY LECTURE**

Velika dvorana | Hall A

Trg Marka Marulića 19

Moderatori | Chairs: Anita Šalić, Krunoslav Žižek

09:00 – 10:00 Sanja Martinez, Ivana Šoić  
*THE CHALLENGES OF TECHNOLOGY TRANSFER IN CORROSION ENGINEERING*

**POZVANA PREDAVANJA | INVITED LECTURES**

Moderatori | Chairs: Anita Šalić, Krunoslav Žižek

10:00 – 10:30 Igor Dejanović  
*MOŽE LI DESTILACIJA BITI ZELENI PROCES?  
CAN DISTILLATION GO GREEN?*

10:30 – 11:00 Ivana Šoljić Jerbić  
*IZAZOVI U RAZVOJU INOVATIVNIH KOMPLEKSNIH LIJEKOVA S PRODULJENIM  
OSLOBAĐANJEM  
CHALLENGES IN THE DEVELOPMENT OF INNOVATIVE COMPLEX MEDICINES WITH  
EXTENDED RELEASE*

11:00 – 11:30 STANKA ZA KAVU | COFFEE BREAK

Moderatori | Chairs: Andrej Vidak, Monika Šabić Runjavac

11:30 – 12:00 Arijana Filipić  
*NOVEL TECHNOLOGY FOR CLEAN WATER*

12:00 – 12:30 Katarina Mužina  
*MAKRO USPJESI NA NANO RAZINI - ČARI ZNANSTVENOG ISTRAŽIVANJA  
MACRO SUCCESSES ON THE NANO LEVEL – THE CHARMS OF SCIENTIFIC RESEARCH*

12:30 – 12:45 STANKA ZA KAVU | COFFEE BREAK

**IZLAGANJA SPONZORA | SPONSOR PRESENTATIONS**

Moderatori | Chairs: Željka Ujević Andrijić, Dajana Kučić Grgić

12:45 – 13:00 Luka Bilić, Selvita d.o.o.  
*COMPUTATIONAL CHEMISTRY IN DRUG DISCOVERY*

13:00 – 13:15 Hrvoje Jenei, Ivana Komparić, NEUCHEMIE d.o.o.  
*SPECIJALNI KEMIJSKI PROIZVODI ZA INDUSTRIJSKU UPORABU - RAZVOJ I PRIMJENA  
SPECIALTY CHEMICALS FOR INDUSTRIAL USE - DEVELOPMENT AND APPLICATIONS*

13:15 – 13:30 Mirela Župan, SHIMADZU d.o.o.  
*AIRSIGHT- TWO-IN-ONE SOLUTION FOR MICROPLASTIC ANALYSIS*

13:30 – 13:45 Luka Vučemilović Šimunović, Ema Podravski, Altium International d.o.o.  
*LABORATORIJSKA OPREMA: JUČER, DANAS I SUTRA  
LABORATORY EQUIPMENT: PAST, PRESENT AND FUTURE*

13:45 – 14:30 STANKA ZA KAVU | COFFEE BREAK

14:30 – 15:30 POSTERSKA SEKCIJA | POSTER SESSION

Predavaonica A – podrum | Lecture room A – basement

Trg Marka Marulića 19

posteri s brojem | posters with number 67 – 100

## USMENA IZLAGANJA | ORAL PRESENTATIONS

Velika dvorana | Hall A

Trg Marka Marulića 19

### Biokemijsko inženjerstvo | Biochemical Engineering

Moderatori | Chairs: Anita Šalić, Monika Šabić Runjavec

**15:30 – 15:45** **Martina Bagović**, Kristina Radošević, Manuela Panić, Marina Cvjetko Bubalo, Ivana Radojčić Redovniković  
*IMPROVEMENT OF MACROLIDE ANTIBIOTIC PROPERTIES BY RATIONALE DESIGN OF DEEP EUTECTIC SOLVENTS*

**15:45 – 16:00** **Petra Roksandić**, Irena Barukčić Jurina, Rajka Božanić, Katarina Lisak Jakopović  
*IMPACT OF MORINGA EXTRACT (Moringa oleifera) ON THE FERMENTATION PROCESS OF GOAT MILK*

### Razvoj materijala i proizvoda | Materials and products development

Moderatori | Chairs: Marin Kovačić, Monika Šabić Runjavec

**16:00 – 16:15** **Lucija Vlahović**, Andrea Lončarević, Anamarija Rogina  
*CHITOSAN/HYDROXYAPATITE COMPOSITE MICROPARTICLES AS DRUG CARRIERS*

**16:15 – 16:30** **Anđela Nosić**, Marijan-Pere Marković, Domagoj Vrsaljko  
*SOL-GEL METODA PRIPREME pH-SENZORSKIH FILMOVA NA OSNOVI LAKMUSA ZA PRIMJENU U MIKROREAKTORIMA*  
*PREPARATION OF pH SENSOR FILMS BASED ON LITMUS BY THE SOL GEL METHOD FOR THE APPLICATION IN MICROREACTORS*

**16:30 – 17:00** STANKA ZA KAVU | COFFEE BREAK

## 14:30 – 15:30 POSTERSKA SEKCIJA | POSTER SESSION

Predavaonica B – podrum | Lecture room B – basement

Trg Marka Marulića 20

posteri s brojem | posters with number 101 – 133

## USMENA IZLAGANJA | ORAL PRESENTATIONS

Velika dvorana | Hall B

Trg Marka Marulića 20

### Kemijsko inženjerstvo | Chemical Engineering

Moderatori | Chairs: Nenad Bolf, Ana Petračić

**15:30 – 15:45** **Mia Gotovuša**, Paula Huzjak, Marta Krasić, Martina Zadravec, Jelena Parlov Vuković, Fabio Faraguna  
*THE INFLUENCE OF THE STRUCTURE OF BRANCHED ISOMER OF SELECTED HIGHER ALCOHOL AND REACTION PARAMETERS ON BIODIESEL SYNTHESIS FROM WASTE COOKING OIL*

**15:45 – 16:00** **Nikola Rimac**, Željka Ujević Andrijić  
*SKRIVENO U PODACIMA: MJERENJE NEMJERLJIVOGA*  
*HIDDEN IN THE DATA: MEASURING THE UNMEASURABLE*

**16:00 – 16:15** **Katarina Sokač**, Lucija Vrban, Robert Vianello, Irena Škorić, Krunoslav Žižek  
*SOLVENT-FREE MECHANOCHEMICAL SYNTHESIS OF DASATINIB-CYCLODEXTRIN INCLUSION COMPLEXES - COMPUTATIONAL AND EXPERIMENTAL STUDY*

16:15 – 16:30

Lamija Ahmetović, Veronika Furlan, Urban Bren

COMPUTATIONAL MODELING OF ANTI-CARCINOGENIC EFFECTS OF NARINGENIN

16:30 – 17:00

STANKA ZA KAVU | COFFEE BREAK

### ZATVARANJE SUSRETA I DODJELA NAGRADA | CLOSING CEREMONY AND AWARDS

Velika dvorana | Hall A

Trg Marka Marulića 19

Petak, 23. veljače 2024. |  
Friday, 23<sup>rd</sup> February 2024

17:00 – 17:30

### DOMJENAK | BANQUET

Klub nastavnika – podrum | The Faculty Club – basement

Trg Marka Marulića 20

Petak, 23. veljače 2024. |  
Friday, 23<sup>rd</sup> February 2024

17:45 –



**POSTERSKA IZLAGANJA**  
***POSTER PRESENTATIONS***



Biokemijsko inženjerstvo | *Biochemical engineering*

- 1 Iva Beneti, Sara Maraš, Tea Sokač Cvetnić, Davor Valinger, Maja Benković, Tamara Jurina, Jasenka Gajdoš Kljusurić, Ana Jurinjak Tušek  
*APPLICATION OF THE MATHEMATICAL MODEL IN THE ANALYSIS OF THE EFFECT OF THE GLYCEMICAL LOAD OF A MIXED MEAL ON THE DYNAMICS OF GLUCOSE AND INSULIN*
- 2 Krsman Božović, Marija Kostić, Milica Perović, Ljiljana Janjušević, Mirjana Antov  
*ACTIVE EDIBLE FILMS AND COATINGS BASED ON SOY HULL PECTIN WITH THE ADDITION OF ESSENTIAL OILS*
- 3 Katarina Brkić, Anđela Matić, Marina Tišma  
*PROIZVODNJA, PROČIŠĆAVANJE I KARAKTERIZACIJA ENDO-1,4- $\beta$ -KSILANAZE IZ *Thermomyces lanuginosus*  
PRODUCTION, ISOLATION AND CHARACTERISATION OF ENDO-1,4-  $\beta$ -XYLANASE FROM *Thermomyces lanuginosus**
- 4 Sara Cetin, Elizabeta Zandona, Katarina Lisak Jakopović, Tomislava Vukušić Pavičić, Irena Barukčić Jurina  
*INFLUENCE OF EDIBLE WHEY PROTEIN BASED COATING FORTIFIED BY OLIVE (*OLEA EUROPEA* L.) LEAF EXTRACT ON SOME PARAMETERS OF ENZYMATICALLY COAGULATED CHEESE*
- 5 Anja Damjanović, Mia Radović, Manuela Panić, Martina Bagović, Kristina Radošević, Marina Cvjetko Bubalo, Ivana Radojčić Redovniković  
*DEEP EUTECTIC SOLVENTS – CREATING A GREEN SOLVENT FOR THE FUTURE THROUGH RATIONAL DESIGN*
- 6 Dejan Dragaš, Marija Kostić, Milica Perović, Ljiljana Janjušević, Mirjana Antov  
*EVALUATION OF PECTIN FROM SOY HULL AS AN INGREDIENT FOR EDIBLE FILMS AND COATINGS WITH LEMON GRASS ESSENTIAL OIL*
- 7 Marko Jovanović, Đura Nakarada, Stevan Blagojević, Hadi Waisi, Miloš Mojović  
*SELECTIVE ANTIRADICAL ACTIVITY OF BLACK GOJI LIPOSOMAL EXTRACTS: IMPLICATIONS FOR OXIDATIVE STRESS THERAPY*
- 8 Lea Karamatić, Emerik Leaković, Ana Vrsalović Presečki  
*KINETIČKA KARAKTERIZACIJA KETOREDUKTAZE U REAKCIJI OKSIDACIJE OPTIČKI AKTIVNOG ALKOHOLA  
KINETIC CHARACTERIZATION OF KETOREDUCTASE IN THE OXIDATION OF OPTICALLY ACTIVE ALCOHOL*
- 9 Predrag Karas, Milica Perović, Mirjana Antov  
*HEAT-INDUCED NANOPARTICLES FROM PUMPKIN LEAVES PROTEIN FRACTIONS AS NANOCARRIERS FOR ANTHOCYANINS*
- 10 Pia Keršič, Katja Vasić, Mateja Primožič, Željko Knez, Maja Leitgeb  
*OPTIMIZATION OF SEPARATION PROCESSES AND IMMOBILIZATION OF LACCASE OBTAINED FROM *PLEUROTUS OSTREATUS* AND *GANODERMA LUCIDUM**
- 11 Karla Krešić, Barbara Arambašić, Petra Plavčić, Dino Skendrović, Ana Vrsalović Presečki  
*KINETIČKA KARAKTERIZACIJA IMOBILIZIRANOG ENZIMA DERA  
KINETIC CHARACTERIZATION OF IMMOBILIZED DERA ENZYME*
- 12 Korina Krog, Tea Sokač Cvetnić, Davor Valinger, Maja Benković, Tamara Jurina, Jasenka Gajdoš Kljusurić, Ivana Radojčić Redovniković, Ana Jurinjak Tušek  
*GRAPE SKIN COMPOST QUALITY AND MATURITY ASSESSMENT*

- 13 **Nika Kučuk, Mateja Primožič, Željko Knez, Maja Leitgeb**  
*FORMULATION OF LIPOSOMES WITH ENCAPSULATED HELICHRYSUM ITALICUM FOR THE COSMETICS INDUSTRY*
- 14 **Kaja Kupnik, Mateja Primožič, Vanja Kokol, Željko Knez, Maja Leitgeb**  
*DEVELOPEMENT OF ANTIBACTERIAL NANOCELLULOSE FILMS WITH BIOACTIVE COMPOUNDS FROM PERSEA AMERICANA SEEDS*
- 15 **Nina Kustudić, Tatjana Đorđević, Mihajlo Valuh, Mirjana Antov**  
*COMPARATIVE STUDY OF ARABINOXYLANS EXTRACTED FROM WHEAT CHAFF WITH SPECIAL REFERENCE TO THEIR VISCOSITY*
- 16 **Emerik Leaković, Karsten Siems, Michel Feussi Tala, Antonia Habazin, Zvezdana Findrik Blažević, Ana Vrsalović Presečki**  
*RHODODENDROL PRODUCTION – MODEL VALIDATION*
- 17 **Marijan Logarušić, Mia Radović, Ivana Radojčić Redovniković, Marina Cvjetko Bubalo**  
*BIOINSPIRED SOLVENTS: DEEP EUTECTIC SOLVENTS BASED ON OSMOLYTES FOR STABILIZATION OF ENZYMES*
- 18 **Blaženko Marjanović, Tea Sokač Cvetnić, Davor Valinger, Maja Benković, Tamara Jurina, Jasenka Gajdoš Kljusurić, Ana Jurinjak Tušek**  
*POTENTIAL OF PORTABLE NEAR INFRARED SPECTROMETER FOR MONITORING PHYSICAL-CHEMICAL PROPERTIES OF *Spirulina platensis* AQUEOUS EXTRACTS*
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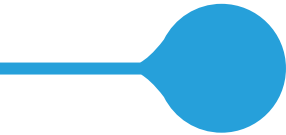


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# JGL Establishes Scientific Advisory Board to Advance the Development of Innovative and Complex Products



*This is a big step forward for us, and for Croatia as a whole, because we are developing science-based, advanced products tailored to the needs of patients and consumers, says JGL*

The JGL Scientific Advisory Board was established in September 2021 with the aim of positioning JGL as an innovator in the development of advanced, differentiated products in three strategic therapeutic areas – flu and cold, ophthalmology and dermatology. This independent body comprises top domestic and foreign experts and raises the science profile of the company's R&D projects. The company now operates in 60 markets around the world, either directly or through partners, and its portfolio consists of 150 brands, 300 products and 650 variations tailored to the needs of specific markets.

- The establishment of the Scientific Advisory Board is another step forward in the development of innovative products around which we build our science and innovation ecosystem. The goal of this body is to cooperate with the JGL team and steer existing and develop new ideas for the company's manufacturing and technology portfolio, all of it based on sound science, says Mislav Vučić, CEO of JGL. He also adds that he is very proud of the combination of cutting-edge science and talent, especially during their annual in-person meetings, where they network and share relevant, science-based knowledge and ideas through synergy and lay the groundwork for increasing the company's competitiveness.

Third SAB meeting was organized in September 2023. The Advisory Board consists of nine experts, internationally recognised in their respective fields,

same being of high relevance for JGL projects. They include Prof. Henning H. Blume, PhD, Prof. Ralph Mösges, PhD, Prof. Stipan Jonjić, PhD, Jag Ahluwalia, PhD, Prof. Özgen Özer, PhD, Prof. Vladimir Trkulja, PhD, Chief Physician Sonja Jandroković, PhD, Andreas Bilstein, PhD, and Prof. Jasmina Lovrić, PhD. The team is coordinated by Zdravka Knežević, PhD, Director of Scientific Operations at JGL, who participated in a number of similar initiatives and projects and has over 30 years of experience in R&D, drug registration, and clinical development.

- I am delighted that I get to share my knowledge and experience from international companies at JGL, as well as cooperate with a great team of experts from the EU, UK, Turkey and other global markets on the Board. I believe that this represents great progress for JGL and our teams, as well as for Croatia as a whole, because we will be able to develop new products for the benefit of our patients and the treatment needs of modern society, with clear scientific rationale, emphasises Knežević.

In cooperation with SAB Memebres, relevant JGL teams conducted a series of innovative formulation, preclinical, clinical, and analytical studies in 2022 and 2023, all with the aim of creating a network of relevant knowledge and identifying new projects for the company's therapeutic areas and technology portfolio.







*The JGL Scientific Advisory Board with JGL team*

### A Major European Manufacturer of Sterile Forms

For more than 30 years, JGL has been growing and developing its business globally. Thanks to continued investments in R&D, production facilities and technology, it currently ranks among the leading manufacturers of sterile pharmaceutical forms in the EU. The business, research and manufacturing complex JGL Pharma Valley in Rijeka combines best practices in production process management, state-of-the-art technology in pharmaceutical production and high environmental standards.

In September 2023, company celebrated the completion of the investment in the INTEGRA capital project, which featured the unveiling of new laboratories for research, development and quality control, a pilot plant and a sterile production line for drops and sprays set to increase our production capacity by 60 per cent. JGL's new robotic logistics and distribution centre with 17,500 pallet spaces in Rijeka's Kukuljanovo business zone was also presented.

### Nearly 85 Per Cent of Revenue Comes From Exports

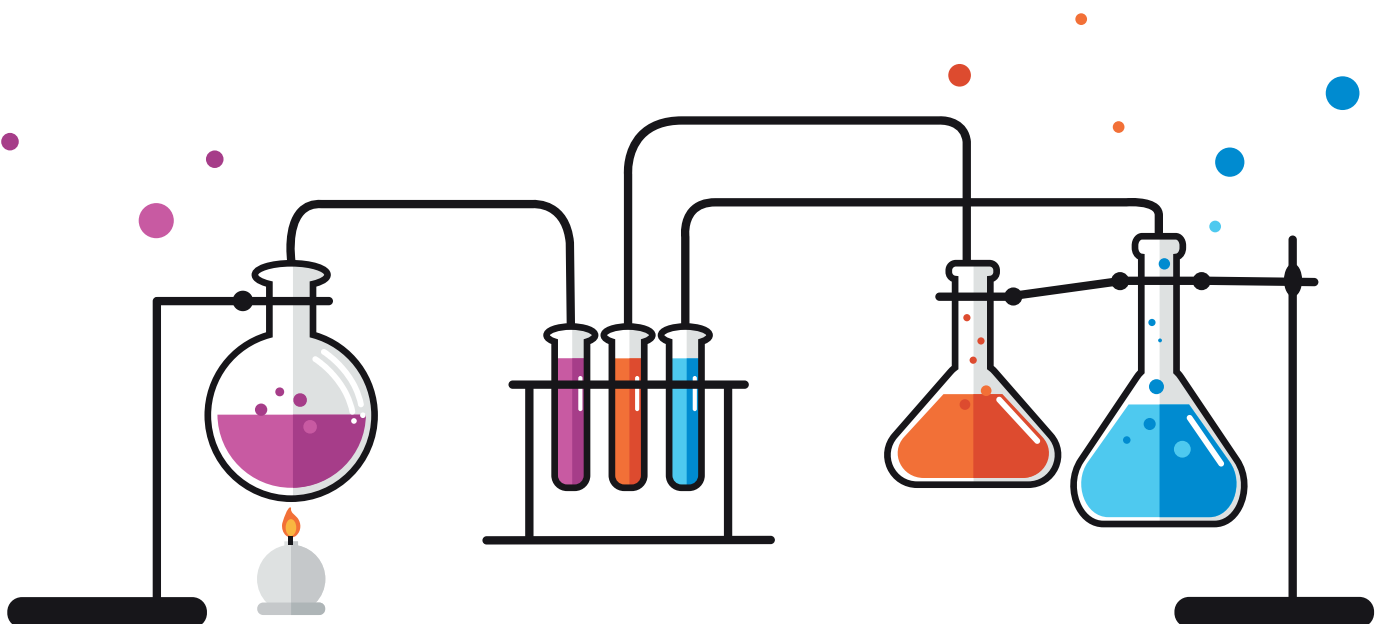
In 2022, the JGL Group generated a total of EUR 190 million in revenue, of which EUR 181.3 million was operating revenue, and EUR 32.4 million in operating profit (EBITDA). Nearly 85 per cent of the company's core earnings is generated outside of Croatia, and JGL Group employs just over a thousand people.

The company's leading export brand is Aqua Maris, launched in 1999, which consists of 100% natural products based on seawater from the Adriatic, used for the prevention and treatment of upper respiratory tract diseases. Other key brands include Vizol S, Meralys, Aknekutan and Dramina.

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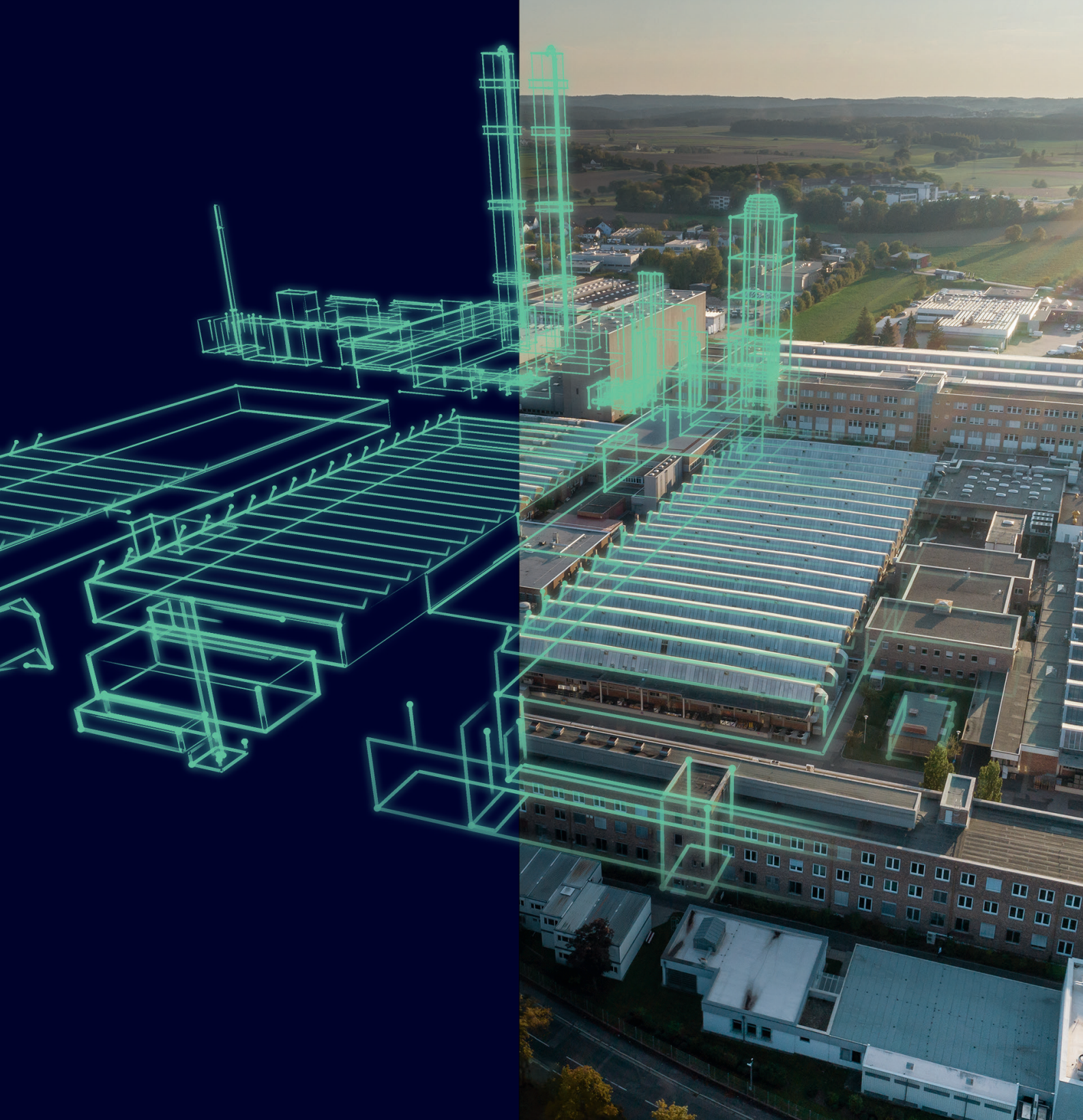
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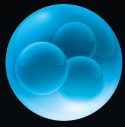


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