

CURRICULUM VITAE



Name, Surname: Karina Egle
Scientific degree: Doctoral Degree in Chemistry, Material science and technologies (Ph.D.)
Academic level: Researcher
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Working experience: *since 2020* - Riga Technical University, Institute of Biomaterials and Bioengineering, researcher;
2018-2020 Riga Technical University, Rudolfs Cimdins Riga Biomaterials Innovation and Development Centre, scientific assistant;
2018-2018 Riga Technical University, Rudolfs Cimdins Riga Biomaterials Innovation and Development Centre, laboratory assistant in scientific work.

Working experience abroad:

17.04.2023.-26.04.2023. AO Foundation, AO Research Institute, Davos Platz, Switzerland. Short-Term Visit "In vivo/in vitro imaging" within the BBCE project Nr.857287
27.02.2023-17.03.2023. Mobility at the Goethe University Hospital, Department of Oral and Maxillofacial Surgery, Frankfurt. Short-Term Visit "Visit focusing on basics of the cellular reaction to biomaterials with special focus on the biomaterial physic-chemical properties *in vitro*" within RISEus2 project Nr.952347;
12.09.2022-09.12.2022. AO Foundation, AO Research Institute, Davos Platz, Switzerland. Long-Term Visit "In vivo/in vitro imaging" within the BBCE project Nr.857287;
13.09.2021.-08.10.2021. Mobility at the Goethe University Hospital, Department of Oral and Maxillofacial Surgery, Frankfurt. Short-Term Visit "Visit focusing on the use of platelet-rich fibrin as a cell suspension in combination with biomaterials as a drug delivery system" within RISEus2 project Nr.952347;
20.05.2019.-24.05.2019. Mobility at the Goethe University Hospital, Department of Oral and Maxillofacial Surgery, Frankfurt.

Education: *2020-2024*, doctoral studies in Riga Technical University, Faculty of Materials Science and Applied Chemistry, program "Chemistry, Materials Science and Engineering";
2018-2020 master studies in Riga Technical University, Faculty of Material Science and Applied Chemistry;
2015-2020 Bachelor studies in Riga Stradins University, Faculty of Law;
2014-2018 Bachelor studies in Riga Technical University, Faculty of Material Science and Applied Chemistry;
2011-2014 Daugavpils State Gymnasium.

Language skills: Latvian– mother tongue
English – fluently
Russian – moderate
German – basic

SCIENTIFIC PUBLICATIONS:

1. L. Micko, I. Skadins, G. Salms, A. Dubnika, K. Egle, O. Radzins, M. D'Este, S. Verrier, A. Dons, M. Zolovs, I. Salma. "Injectable platelet-rich fibrin for modelling of mandibular lower border defects in bilateral sagittal split osteotomy". *Journal of Cranio Maxillofacial Surgery*, **2025** Oct;53(10):1769-1779. doi: 10.1016/j.jcms.2025.07.018.
2. I. Jurgelane, K. Egle, A. Grava, D. Galkina, M. Brante, M. Melnichuks, M. Skrinda-Melne, G. Salms, A. Dubnika. Exploring the effects of cannabidiol encapsulation in liposomes on their physicochemical properties and biocompatibility. *Drug Delivery*, **2025**, Dec;32(1):2460666. doi: 10.1080/10717544.2025.2460666.
3. K. Egle, E. Dohle, V. Hoffmann, I. Salma, S. Al-Maawi, S. Ghanaati, A. Dubnika. Fucoidan/chitosan hydrogels as carrier for sustained delivery of platelet-rich fibrin containing bioactive molecules. *International Journal of Biological Macromolecules*, **2024**, 262(Pt 1), 129651. doi: 10.1016/j.ijbiomac.2024.129651.
4. L. Micko, I. Salma, I. Skadins, K. Egle, G. Salms, A. Dubnika. Can Our Blood Help Ensure Antimicrobial and Anti-Inflammatory Properties in Oral and Maxillofacial Surgery?. *International Journal of Molecular Sciences*, **2023**, 24(2), 1073. doi: 10.3390/ijms24021073.
5. K. Egle, I. Skadins, A. Grava, L. Micko, V. Dubniks, I. Salma, A. Dubnika. Injectable Platelet-Rich Fibrin as a Drug Carrier Increases the Antibacterial Susceptibility of Antibiotic—Clindamycin Phosphate. *International Journal of Molecular Sciences*, **2022**, 23(13), 7407. doi: 10.3390/ijms23137407.
6. A. Grava, K. Egle, A. Dubnika. Enzymatically Crosslinked In Situ Synthesized Silk/Gelatin/Calcium Phosphate Hydrogels for Drug Delivery. *Materials*, **2021**, 14(23), 7191. doi: 10.3390/ma14237191.
7. K. Egle, I. Salma, A. Dubnika. From Blood to Regenerative Tissue: How Autologous Platelet-Rich Fibrin Can Be Combined with Other Materials to Ensure Controlled Drug and Growth Factor Release. *International Journal of Molecular Sciences*, **2021**, 22(21), 11553. doi: 10.3390/ijms222111553.
8. A. Dubnika, K. Egle, M. Skrinda-Melne, I. Skadins, J. Rajadas, I. Salma. Development Development of Vancomycin Delivery Systems Based on Autologous 3D Platelet-Rich Fibrin Matrices for Bone Tissue Engineering. *Biomedicines*, **2021**, 9(7), 814. doi: 10.3390/biomedicines9070814.
9. K. Egle, A. Dubnika. Development of bioadhesive biomaterials based on silk and hyaluronic acid. *Key Engineering Material*. **2020**, Vol. 850. doi: 10.4028/www.scientific.net/KEM.850.236

Total number of publications: 9 in Scopus

Total number of citations: 114 (by 100 documents)

Hirsh index in Scopus: 5

SCIENTIFIC CONFERENCES:

1. K. Egle, M. Melnickuks, I. Salma, A. Dubnika. Marine-Derived Collagen as a Key Component in Bone Biomaterial Development. European Conference on Marine Natural Products (XIV ECMNP), **2025**, 30 September – 3 October, Piran, Slovenia.
2. A. Dubnika, K. Egle, N. Saha, D. Loca, I. Salma. From Marine-based biopolymer coatings to injectable hydrogels: a versatile platform for sustained delivery of therapeutics. European Conference on Marine Natural Products (XIV ECMNP), **2025**, 30 September – 3 October, Piran, Slovenia.
3. L. Andza, M. Andzs, V. Nefjodovs, J. Zoldners, U. Milbreta, M. Skute, K. Egle, A. Dubnika. Alkil-pretreated densification of birch wood for potential use in osteosynthesis bone implants. 34th Annual Conference of the European Society for Biomaterials, **2025**, 7th-11th September, Turin, Italy.
4. K. Egle, I. Salma, I. Skadins, A. Dubnika. Autologous vs Commercial Fibrin: Material Perspectives for Controlled Drug Delivery. Scandinavian Society for Biomaterials 2025 18th Annual Meeting, **2025**, 6-9 May, Hämeenlinna, Finland.
5. I. Jurgelane, D. Galkina, K. Egle, G. Salms, S. Tornaci, E. Toksoy Oner, A. Dubnika. Levan based hydrogel with insulin-like growth factor 1 to promote osteogenic differentiation. Scandinavian Society for Biomaterials 2025 18th Annual Meeting, **2025**, 6-9 May, Hämeenlinna, Finland.

6. E. Kelle, K. Egle, A. Dubnika. Development of Marine Polysaccharide and Silk Fibroin Hydrogels. RSU International Research Conference on Medical and Health Care Sciences „Knowledge for Use in Practise“, 2025 Annual Conference and Exhibition, **2025**, 24-28 March, Riga, Latvia.
7. L. Micko, I. Salma, I. Skadins, G. Salms, K. Egle, A. Dubnika, O. Radzins, M. Zolotovs. Immunological and Anti-Microbial Activity of Platelet-Rich Fibrin. RSU International Research Conference on Medical and Health Care Sciences „Knowledge for Use in Practise“, 2025 Annual Conference and Exhibition, **2025**, 24-28 March, Riga, Latvia.
8. I. Jurgelane, D. Galkina, K. Egle, G. Salms, A. Dubnika. Enhancing Tissue Engineering through Liposomes Containing Bioactive Molecules. RSU International Research Conference on Medical and Health Care Sciences „Knowledge for Use in Practise“, 2025 Annual Conference and Exhibition, **2025**, 24-28 March, Riga, Latvia.
9. K. Egle. Platelet rich fibrin matrices as carriers for drugs and bioactive molecules, 65th International Scientific Conference of RTU: Bioenergy Technologies and Biotechnologies, **2024**, 17 October, Riga, Latvia.
10. K. Egle, E. Dohle, A.G. Guex, V. Hoffmann, I. Salma, M. D'E`ste, S. Ghanaati, A. Dubnika. Modulation of Bioactive Molecule Release from Platelet-Rich Fibrin and Fucoidan/Chitosan Delivery System. The 12th World Biomaterials Congress, WBC 2024, **2024**, 26-31 May, Exco, Daegu, Korea.
11. A. Dubnika, K. Egle, L. Micko, I. Skadins, I. Salma. Platelet-Rich fibrin- from autologous bioactive molecule sustained delivery to antibacterial effect. The 12th World Biomaterials Congress, WBC 2024, **2024**, 26-31 May, Exco, Daegu, Korea.
12. K. Egle, A. Grava, E. Kelle, A. Dubnika. Silk-Based Hydrogels: Versatile Matrices for Biomedical Applications. Scandinavian Society for Biomaterials 2024 17th Annual Meeting, **2024**, 23rd – 26th April, Helsingør, Denmark.
13. K. Egle, E. Dohle, V. Hoffmann, I. Salma, S. Al-Maawi, S. Ghanaati, A. Dubnika. Exploring Platelet-Rich Fibrin Microstructure and Histology: with and without Hydrogel Carriers. 64th International Scientific Conference of RTU: Materials Science and Applied Chemistry, **2023**, 6 October, Riga, Latvia.
14. K. Egle, E. Dohle, V. Hoffman, I. Salma, S. Al-Maawi, S. Ghanaati, A. Dubnika. Fucoidan/chitosan hydrogels for sustained delivery of platelet-rich fibrin containing growth factors. 33rd Annual Conference of the European Society for Biomaterials, **2023**, 4th-8th September, Davos, Switzerland.
15. A. Dubnika, K. Egle, I. Skadins, M. Skrinda-Melne, L. Micko, A. Grava, V. Dubniks, I. Salma. Development of drug delivery systems based on autologous 3D platelet-rich fibrin matrices. TERMIS-AM 2023 Annual Conference, **2023**, 11th – 14th April, Boston, MA.
16. L. Micko, I. Salma, I. Skadins, G. Salms, A. Dubnika, K. Egle. Platelet-rich fibrin immunological testing methodology using Elisa assay. RSU International Research Conference on Medical and Health Care Sciences „Knowledge for Use in Practise“, 2023 Annual Conference and Exhibition, **2023**, 29th – 31th March, Riga, Latvia.
17. L. Micko, I. Skadins, I. Salma, A. Dubnika, K. Egle, G. Salms. Platelet-rich fibrin antibacterial activity against *Klebsiella pneumoniae*. RSU International Research Conference on Medical and Health Care Sciences „Knowledge for Use in Practise“, **2023**, 29th – 31th March, Riga, Latvia.
18. K. Egle, I. Skadins, A. Grava, L. Micko, V. Dubniks, I. Salma, A. Dubnika. Injectable platelet-rich fibrin as a drug carrier increases the antibacterial susceptibility of antibiotic-clindamycin phosphate. Scandinavian Society for Biomaterials 2023 16th Annual Meeting, **2023**, 21th – 24th March, Roros, Norway.
19. J. Vecstaudza, K. Egle, V. Stepanova, J. Locs. Granulation of calcium phosphates based on principles of Leidenfrost effect. Scandinavian Society for Biomaterials 2023 16th Annual Meeting, **2023**, 21th – 24th March, Roros, Norway.
20. L. Micko, K. Egle, A. Grava, I. Skadins, I. Salma, G. Salms, A. Dubnika. Antimicrobial activity of platelet-rich fibrin. 26th Congress of the European Association for Cranio-Maxillo-Facial Surgery, **2022**, 27th -30th September, Madrid, Spain.
21. K. Egle, E. Dohle, V. Hoffmann, I. Salma, S. Al-Maawi, S. Ghanaati, A. Dubnika. Fucoidan/chitosan hydrogels as matrices for sustained delivery of platelet-rich fibrin containing bioactive molecules. 32nd Annual Conference of the European Society for Biomaterials, **2022**, 4th-8th September, Bordeaux, France.

22. I. Salma, L. Micko, K. Egle, A. Dubnika. Development of protocol for obtaining autologous liquid PRF for local drug delivery systems. 32nd Annual Conference of the European Society for Biomaterials, **2022**, 4th-8th September, Bordeaux, France.
23. K. Egle, L. Micko, A. Grava, I. Salma, I. Skadins, A. Dubnika. Study on the effect of fibrin matrice on the antibacterial activity of clindamycin phosphate. Scandinavian Society for Biomaterials 2022 15th Annual Meeting, **2022**, 13th – 15th June, Jurmala, Latvia.
24. K. Egle, I. Salma, A. Dubnika. From blood to regenerative tissue: how autologous platelet-rich fibrin can be used as drug carrier system. Materials Science and Applied Chemistry, **2021**, 22nd October, Riga, Latvia.
25. K. Egle, A. Dubnika. Development of fibrin matrices for sustained drug delivery. 31st Conference of the European Society for Biomaterials, **2021**, 5th-9th September, Porto, Portugal.
26. K. Egle, I. Salma, I. Skadins, A. Dubnika. Study of autologous fibrin matrices for controlled drug delivery. Scandinavian Society for Biomaterials 2021, **2021**, 14th June, Jurmala, Latvia.
27. I. Skadins, L. Micko, I. Salma, A. Dubnika, K. Egle. Antibacterial properties of platelet-rich fibrin matrices saturated with vancomycin. Scandinavian Society for Biomaterials 2021, **2021**, 14th June, Jurmala, Latvia.
28. I. Skadins, A. Dubnika, K. Egle, A. Dovbenko, I. Salma, L. Micko. Antibacterial effect of autologous matrices. RSU International Research Conference on Medical and Health Care Sciences „Knowledge for Use in Practise“, **2021**, 24th – 26th March, Riga, Latvia
29. A. Dubnika, K. Egle, I. Skadins, I. Salma. Commercial vs autologous fibrin-handling from material point of view. RSU International Research Conference on Medical and Health Care Sciences „Knowledge for Use in Practise“, **2021**, 24th – 26th March, Riga, Latvia.
30. K. Egle, A. Dubnika. Development of fibrin matrices for controlled drug delivery. Riga Technical University 61st International Scientific Conference „Materials Science and Applied Chemistry“, **2020**, 23th October, Riga, Latvia.
31. K. Egle. Development of autologous fibrin matrices for controlled drug delivey. 61st Riga Technical University Student Scientific and Technical Conference, **2020**, 22nd May, Riga, Latvia.
32. A. Dubnika, K. Egle, M. Skrinda, D. Loca. Drug and growth factor dual delivery from biceramic hydroxyapatite scaffolds for bone tissue engineering. 31st Symposium & Annual Meeting of the International Society for Ceramics in Medicine, **2019**, 14th – 17th November, New Orleans, USA.
33. K. Egle, A. Dubnika. Development of bioadhesive biomaterials based on silk and hyaluronic acid. Riga Technical University 60th International Scientific Conference „Materials Science and Applied Chemistry“, **2019**, 24th October, Riga, Latvia.
34. K. Egle. Investigation of autologous fibrin glue for controlled drug delivery. 60th Riga Technical University Student Scientific and Technical Conference, **2019**, 26th April, Riga, Latvia.
35. A. Dubnika, M. Skrinda, K. Egle, I. Salma. Development of lipid based liposomes for adhesive patches. 3rd International Conference on Biological and Biomimetic Adhesives, **2018**, 20th -22nd November, Haifa, Israel.
36. K. Egle. Development of bioadhesive biomaterials based on silk and hyaluronic acid. 59th Riga Technical University Student Scientific and Technical Conference, **2018**, 27th April, Riga, Latvia.

AWARDS:

1. In 2025 – Baltic University Programme PhD Award in the research area of Natural Sciences and Technologies.
2. In 2025 – RTU „Young Scientist of the Year 2025” Award.

EXPERIENCE IN THE IMPLEMENTATION OF PROJECTS:

3. Project leader at Activity 1.1.1.9 "Post-doctoral Research" of the Specific Objective 1.1.1 "Strengthening research and innovative capacities and introduction of advanced technologies in the common R&D system" of the European Union's Cohesion Policy Programme for 2021-2027 (No 1.1.1.9/LZP/1/24/088) “Development of *in vitro* model for bone substitute material cellular response evaluation (VIBE)” (starting from 01.06.2025-31.05.2028).
4. Performer at M-era.net project “Bioactive injectable hydrogels for soft tissue regeneration after reconstructive maxillofacial surgeries (INJECT-BIO)” (2020-2024).

5. Performer at FLPP fundamental and applied research project “Development of antibacterial autologous fibrin matrices in maxillofacial surgery (MATRI-X)” (2021-2023).
6. Performer at Horizon2020 project “Baltic Biomaterials Centre of Excellence (BBCE)” GA857287 (2020-2027).
7. Performer at Horizon2020 project “Rising competitiveness of early stage researchers and research management in Latvia” (RISEus2), GA952347.
8. Performer at FLPP fundamental and applied research project “Future of synthetic bone graft materials - in vivo guided biosynthesis of biomimetic hydroxyapatite” (2018-2021).

SCIENTIFIC ACTIVITIES:

1. Organization of the COST Action: CA18238 European transdisciplinary networking platform for marine biotechnology (Ocean4Biotech) final meeting, **2024**, 5th - 7th March, Riga, Latvia.
2. INJECT-BIO project organized event “Pica ar biomateriālu pētņiem”, **2024**, 25th September, Riga, Latvia.
3. Organization of RISEus2 incoming visit “Visit focusing on the introduction of Platelet rich fibrin (PRF) and its role in the biomaterials’ research with respect to ethical requirements”, **2022**, August 29-September 1, Riga, Latvia.
4. Management of laboratory work within the RTU study course "Biocompatibility of Biomaterials" (histology and ELISA methods).
5. Organization of the Scandinavian Biomaterials Society 2022 (ScSB2022) conference, June 13-15, **2022**, Riga, Latvia.
6. Supervision of Master thesis for 1 student and Bachelor thesis for 2 students.
 - ✓ Master thesis: Elina Kelle “Silk Fibroin and Marine Polysaccharide Hydrogels and Mats: Development and Comparison”, will defend in 2026.
 - ✓ Bachelor thesis: Elina Kelle "Development of silk fibroin and marine polysaccharide hydrogels", defended in summer 2024.
 - ✓ Bachelor thesis: Evelīna Zasčižinska "Development of chitosan and fucoidan hydrogels for medical applications", defended in summer 2021.
7. Supervision/consultation of pupils on scientific research work:
 - ✓ Katrina Lorence “Effect of silk and marine polysaccharide hydrogels on cell viability: Potential for medical application”, defended in 2025.
 - ✓ Megija Upeniece “Effect of different concentrations of hydrogen peroxide on preosteoblast cell viability”, defended in 2025.
 - ✓ Martins Driksne "Histological analysis of autologous fibrin", defended in 2023.
 - ✓ Laura Vicmane "Utilization of fucoidan in the creation of drug delivery systems", defended in 2021.
 - ✓ Matiss Salms "Controlled vancomycin delivery using autologous fibrin matrices", defended in 2020.

PARTICIPATION IN TRAININGS:

1. BBCE training “*In vitro* cell and bacteria methodology development and implementation” (trained by Claudia Siverino and Elena Della Bella; September 15-25, 2025).
2. BBCE training “Generating new business opportunities from your research” (Course leader Jeff Skinner, February 10-11, 2025).
3. BBCE training on Technology Transfer "Training on knowledge of EU funding opportunities"(November 4-5, 2024, Riga, Latvia).
4. BBCE training “Drug delivery systems – global technical and quality challenges” (BBCE Incoming visit, May 16, 2024).
5. BBCE short term training “Leadership training, project management, conflict management, negotiation, communication (workshop)” (trained by Torsten Zielezniak, November 14-15, 2024; Riga, Latvia)
6. Granulometer training (Derox, August 10-11, 2023, Riga, Latvia).
7. Microtome training (NMS ELPA, July 19, 2023; Riga, Latvia).

8. BBCE training "Fundamentals of Technology Training, ASTP course" (taught by Art Bos, June 7, 2023; Riga, Latvia).
9. Antibacterial tests (Riga Stradins University, 2021).
10. High-performance liquid chromatography (Riga Technical University, 2021).
11. Webinar "Chromatography Masterclass I: Basic Principles" (Buchi online training, February 24, 2021).
12. Micro-computer tomography training (Scanco Medical, January 7-8, 2020; Riga, Latvia).

✓ **Organized by the AO Research Institute in Davos:**

- "Research metrics and ethics (journal citations, impact factor, h-index, logbook rules, database, open archive, laboratory website, gender equality, ethics)", (17.-26.04.2023, Davos, Switzerland).
- Confocal microscope training (trained by Cristopher Sprecher, December 2022, Davos, Switzerland).
- Training on *in vitro* studies of microparticles, functional tests - cytotoxicity, osteogenesis, and angiogenesis. (trained by Anna Géraldine Guex, September – December 2022, Davos, Switzerland).
- Long-Term training "In vivo/in vitro imaging", (12.09.2022-09.12.2022, Davos, Switzerland).
- BBCE incoming visit "Advanced drug delivery & drug targeting", (training/lectures were conducted by C. Siverino, 4.-7.07.2022, Riga, Latvia).
- "Controlled release technology: delivery systems for pharmaceuticals and other agents", "Drug delivery systems: global technical, regulatory and quality challenges" un "Advanced drug delivery & drug targeting", (21.-28.11.2021, Davos, Switzerland).
- "Biomaterial for skeletal repair" (1.-4.11.2021, online event);
- "Electronical Lab journal/ experimental planning" (12.-13.10.2021, online event).
- Implementation of quality systems according to ISO, GMP, GLP standards in BBCE core institutions to enhance performance and reputation (SOP training session)) (13.09.2021.; 29.11.2021, online event).
- "Research metrics and ethics" (12.10.2021, online event).
- "Research Ethics" (27.08.2020, online event).
- "Applying best practice in the management of social media and websites for research institutions" (24.-25.08.2020, online event).
- "Histology laboratory management, histology databases, data management for industry projects" (21.08.2020, online event).
- "Journal citations, impact factor, h-index, open archive" (20.08.2020, online event);
- "Brief history of eCM Journal and conferences; conference organization for networking" (19.08.2020, online event).
- "Intro to ISO 13485" (19.08.2020, online event).
- "Laboratory management, cell culture, databases" (18.08.2020, online event).
- "Intro to ISO 9001" (18.08.2020, online event).
- "Electronic Lab Journal – 3" (17.08.2020, online event).
- "Electronic Lab Journal – 2" (14.08.2020, online event).
- "General introduction to GLP" (14.08.2020, online event).
- "Electronic Lab Journal – 1" (13.08.2020, online event).
- "Scanning with XtremeCT *in vivo* & *ex vivo*" (10.08.2020, online event).
- "Scanning with μ CT *in vivo* & *ex vivo*" (07.08.2020, online event).
- "Scanning with a clinical CT *in vivo* & *ex vivo*" (06.08.2020, online event).

✓ **Organized by Friedrich-Alexander University of Erlangen-Nuremberg:**

- "Functionalized scaffolds for tissue engineering applications", 28-29 October, **2021**, online event.
- "Project writing and project partner search", 17 May, **2021**, online event.
- "Controlled release technology: delivery systems for pharmaceuticals and other agents", (2-4 November, **2020**, online event);

- “Leadership training, project management, conflict management, negotiation, communication (workshop)”, (26-27 October, **2020**, online event).

✓ **Organized by Goethe University Frankfurt:**

- RISEus2 incoming visit “Visit focusing on the introduction of Platelet rich fibrin (PRF) and its role in the biomaterials’ research with respect to ethical requirements”, (August 29 – September 1, **2022**, Riga, Latvia);
- Microtome training (trained by Verena Hoffmann, September-October **2021**, Frankfurt am Main, Germany);
- ELISA training (trained by Verena Hoffmann, September-October **2021**, Frankfurt am Main, Germany);
- Training on histology and immunohistology (trained by Verena Hoffmann, September-October **2021**, Frankfurt am Main, Germany);
- Training on cell experiments (trained by Eva Dohle, September-October **2021**, Frankfurt am Main, Germany).

Participation in summer/winter schools:

- RISEus2 Summer School “How to establish in vivo experiments”, organized by Goethe University Frankfurt/Main, 26 -30 June, **2023**, Germany.
- RISEus2 3rd Winter School “Materials *in vitro*”, organized by RTU Rudolfs Cimdins Riga Biomaterials Innovations and Development Centre, 16-18 May, **2023**, Riga, Latvia.
- RISEus2 Winter School “Drug/ion/cell delivery systems”, organized by RTU Rudolfs Cimdins Riga Biomaterials Innovations and Development Centre, 23-25 August, **2022**, Riga, Latvia.
- RISEus2 Summer School on “From laboratory to the market of medical devices” at ENSIACET – Toulouse (France), organized by Prof. Christèle COMBES, 21-25 March, **2022**, France.
- BBCE Summer School on “Scientific writing”, organized by Prof. Aldo R. Boccaccini and Dr. Liliana Liverani (Institute of Biomaterials, FAU), 18-22 October, **2021**, online event;
- BBCE Summer School on “Scientific writing”, organized by Prof. Aldo R. Boccaccini and Dr. Liliana Liverani (Institute of Biomaterials, FAU), 23-27 November, **2020**, online event.

POPULARIZATION OF SCIENCE, SOCIAL VISIBILITY:

1. Interview on the LTV News Service program "Rīta Panorāma" on the topic "Latvia is creating biomaterials that will regenerate tissues and avoid the use of antibiotics" (07.07.2024).
2. Interview on the Latvian Radio 4 program "Doma laukums" on the topic "Biomaterials" (13.01.2024).
3. Organization of the BBCE student erudition competition "BIO-GO-Higher", 2020-2025.
4. 8th and 9th grade student competition "Mysterious Science", experiment demonstration, April 23, 2021.
5. Organization of RTU RBIDC Scientist Night 2019 "e-bio-BOOM", September 29, 2019.
6. Leadership of the Children's and Youth University 2019, "Preparation of biopolymer balls", May 25, 2019.
7. Practical orientation seminar "Beta", supervision of practical work, January 26, 2019.
8. Participation in *Shadow days, European Researcher Nights* profession Researcher at RTU Institute of Biomaterials and Bioengineering since Year 2018.
9. Manager of social account on Facebook: [Matri-X](#) and on Instagram: [matrix.projekts](#), providing information on the scientific activities within MATRI-X project.
10. Manager of social account on Facebook: [bbce_project](#), providing information on the scientific activities at BBCE (Baltic Biomaterial Centre of Excellence).



Karina Egle 31.10.2025