



Curriculum vitae  
Europass



**Personal information**

First name(s) /Surname(s)

**PRICOP MARIA-ALEXANDRA**

Address

Bulevardul Liviu Rebreanu, nr. 156, 300723, Timișoara

Telephone

Mobile: 0770897753

E-mail/Date of birth

[pricop.alexandra@oncogen.ro](mailto:pricop.alexandra@oncogen.ro)

Date of birth

14.05.1996

Nationality/Gender

Romanian

Sex

Feminin

**Occupational field**

**Spitalul Clinic Județean de Urgență, "Pius Brînzeu", Research Centre for Gene and Cellular Therapies in Cancer ONCOGEN, Timișoara**

**Work experience**

Dates

**From 2022 to present**

Occupation or position held

Research assistant

Main activities

Research activities: samples treatment and preparation for analyses (GS-MS, HPLC-DAD)

Name and address of employer

Spitalul Clinic Județean de Urgență "Pius Brînzeu", Research Centre for Gene and Cellular Therapies in Cancer -ONCOGEN,  
Bd. Liviu Rebreanu, 156, 300723, Timișoara

Type of business or sector

Scientific research

Dates

**From 2021 to 2022**

Occupation or position held

Substitute teacher

Main activities

Teaching activities on discipline chemistry for gymnasium and high school

Name and address of employer

Liceul Teoretic "Coriolan Brediceanu", spl. Coriolan Brediceanu, 3, 305500, Lugoj

Type of business or sector

Teaching activities

Dates

**2018**

Occupation or position held

Laboratory technician

Main activities

Testing industrial products

Name and address of employer

HERAEUS Romania SRL, Chișoda, 307221, Timișoara

Type of business or sector

Internship: department of quality

**Education**

Dates

**From 2023 to present**

Title of qualification awarded

**Phd ; specialization Chemical Engineering**

Principal subjects/occupational skills covered

The synthesis and characterization of copper nanoparticles (CuNPs).

Name and type of organization providing education

Politehnica University, Faculty of Chemical Engineering, Biotechnologies and Environmental Protection, Bd. Vasile Pârvan, nr. 6, 300223 Timișoara

Dates	<b>From 2019 to 2021</b>
Title of quantification awarded	<b>Master degree; specialization in Engineering and Environmental Protection Management in Industry</b>
Principal subjects/occupational skills covered	Integrated environmental quality management; Industrial pollutant control, Etics
Name and type of organization providing education	Politehnica University, Faculty of Chemical Engineering, Biotechnologies and Environmental Protection, Bd. Vasile Pârvan, nr. 6, 300223 Timișoara
Dates	<b>From 2015 to 2019</b>
Title of quantification awarded	<b>Engineer diploma; specialization in Chemical engineering in the field of Inorganic substances and environmental protection</b>
Principal subjects/occupational skills covered	Integrated environmental quality management; Industrial pollutant control, etics
Name and type of organization providing education	Politehnica University, Faculty of Chemical Engineering, Biotechnologies and Environmental Protection, Bd. Vasile Pârvan, nr. 6, 300223 Timișoara
<b>Social skills and competences</b>	Team spirit, good ability to adapt to multicultural environments, good communication skills
Organizational skills and competences	Strong organizational skills and competences, which allow me to effectively manage logistics and tasks, prioritize structure in both physical and digital environments. I excel at planning, ensuring efficiency and productivity in all
Technical skills and competences	Attention to detail and hands-on experience allow me to deliver high-quality results. Skilled in analysing complex problems, optimizing workflow and leveraging technology to drive success.
<b>Other Information</b>	<p><b>Publications</b></p> <ol style="list-style-type: none"> <li>1. Segneanu, A.-E.; Vlase, G.; Chirigiu, L.; Herea, D.D.; <b>Pricop, M.-A.</b>; Saracin, P.-A.; Tanasie, S.E. Romanian Wild-Growing <i>Armoracia rusticana</i> L.—Untargeted Low-Molecular Metabolomic Approach to a Potential Antitumoral Phyto-Carrier System Based on Kaolinite. <i>Antioxidants</i> 2023, 12, 1268. doi: 10.3390/antiox12061268</li> <li>2. Lukinich-Gruia, A.T.; Calma, C.L.; Szekely, F.A.E.; Cristea, I.-M.; <b>Pricop, M.-A.</b>; Simina, A.-G.; Ordodi, V.L.; Pavlović, N.M.; Tatu, C.A.; Paunescu, V. Mitochondrial Dysfunction in Aristolochic Acid I-Induced Kidney Diseases: What We Know and What We Do Not Know. <i>Appl. Sci.</i> 2024, 14, 7961. doi: 10.3390/app14177961</li> <li>3. Udrea, I.-A.; Lukinich-Gruia, A.T.; Paul, C.; <b>Pricop, M.-A.</b>; Dan, M.; Păunescu, V.; Băloi, A.; Tatu, C.A.; Vaszilcsin, N.; Ordodi, V.L. Experimental Device for the “Green” Synthesis of Unbranched Aliphatic Esters C4-C8 Using an Audio Frequency Electric Field. <i>Processes</i> 2024, 12, 1891. doi: 10.3390/pr12091891</li> <li>4. <b>Pricop, M.-A.</b>; Lukinich-Gruia, A.T.; Cristea, I.-M.; Păunescu, V.; Tatu, C.A. <i>Aristolochia clematitis</i> L. Ethanol Extracts: In Vitro Evaluation of Antioxidant Activity and Cytotoxicity on Caco-2 Cell Line. <i>Plants</i> 2024, 13, 2987. doi: 10.3390/plants13212987</li> <li>5. Ivan, A.; Lukinich-Gruia, A.T.; Cristea, I.-M.; <b>Pricop, M.-A.</b>; Calma, C.L.; Simina, A.-G.; Tatu, C.A.; Galuscan, A.; Păunescu, V. Quercetin and Mesenchymal Stem Cell Metabolism: A Comparative Analysis of Young and Senescent States. <i>Molecules</i> 2024, 29, 5755. doi: 10.3390/molecules29235755</li> <li>6. Munteanu, A.; Gogulescu, A.; Șoica, C.; Mioc, A.; Mioc, M.; Milan, A.; Lukinich-Gruia, A.T.; <b>Pricop, M.-A.</b>; Jianu, C.; Banciu, C.; Racoviceanu, R. In Vitro and In Silico Evaluation of <i>Syzygium aromaticum</i> Essential Oil: Effects on Mitochondrial Function and Cytotoxic Potential Against Cancer Cells. <i>Plants</i> 2024, 13, 3443. doi: 10.3390/plants13233443</li> <li>7. Ivan, A.; Lukinich-Gruia, A.T.; Cristea, I.-M.; <b>Pricop, M.-A.</b>; Calma, C.L.; Paunescu, A.; Tatu, C.A.; Galuscan, A.; Paunescu, V. In Vitro Antioxidant Effects of Coenzyme Q10 on Cellular Metabolism in Aged Mesenchymal Stem Cells. <i>Appl. Sci.</i> 2025, 15, 2783. <a href="https://doi.org/10.3390/app15052783">https://doi.org/10.3390/app15052783</a></li> <li>8. Maksimović, T.; Minda, D.; Șoica, C.; Mioc, A.; Mioc, M.; Colibășanu, D.; Lukinich-Gruia, A.T.; <b>Pricop, M.-A.</b>; Jianu, C.; Gogulescu, A. Anticancer Potential of <i>Cymbopogon citratus</i> L. Essential Oil: In Vitro and In Silico Insights into Mitochondrial Dysfunction and Cytotoxicity in Cancer Cells. <i>Plants</i> 2025, 14, 1341. <a href="https://doi.org/10.3390/plants14091341">https://doi.org/10.3390/plants14091341</a></li> <li>9. Mardale, G.; Caruntu, F.; Mioc, A.; Mioc, M.; Lukinich-Gruia, A.T.; <b>Pricop, M.-A.</b>; Jianu, C.; Gogulescu, A.; Maksimovic, T.; Șoica, C. Integrated In Silico and In Vitro Assessment of the Anticancer Potential of <i>Origanum vulgare</i> L. Essential Oil. <i>Processes</i> 2025, 13, 1695. <a href="https://doi.org/10.3390/pr13061695">https://doi.org/10.3390/pr13061695</a></li> <li>10. Gruin S, Crețu O, Mioc A, Mioc M, Prodea A, Atyim E, Lukinich-Gruia AT, <b>Pricop M.-A.</b>, Gogulescu A, Șoica C. Evaluation of <i>Cedrus atlantica</i> Essential Oil: Chemical Composition, Anticancer Activity and Molecular Docking Studies. <i>Molecules</i>. 2025 Dec 22;31(1):46. doi: 10.3390/molecules31010046</li> <li>11. <b>Pricop, M.-A.</b>; Negrea, A.; Pascu, B.; Nemeș, N.S.; Ciopec, M.; Negrea, P.; Ianăși, C.; Svera, P.; Muntean, D.; Ivan, A.; et al. Copper Nanoparticles Synthesized by Chemical Reduction with Medical Applications. <i>Int. J. Mol. Sci.</i> 2025, 26, 1628. <a href="https://doi.org/10.3390/ijms26041628">https://doi.org/10.3390/ijms26041628</a></li> <li>12. Ivan, A.; <b>Pricop, M.-A.</b>; Lukinich-Gruia, A.T.; Cristea, I.-M.; Negrea, A.; Pascu, I.B.; Calma, C.L.; Paunescu, A.; Paunescu, V.; Tatu, C.A. Cellular Metabolic Responses to Copper Nanoparticles: Comparison Between Normal and Breast Cancer Cells. <i>Int. J. Mol. Sci.</i> 2025, 26, 10716. <a href="https://doi.org/10.3390/ijms262110716">https://doi.org/10.3390/ijms262110716</a></li> <li>13. <b>Pricop, M.-A.</b>; Negrea, A.; Ciopec, M.; Pascu, I.B.; Oprean, C.; Lukinich-Gruia, A.T.; Cristea, I.-M.; Ivan, A.; Păunescu, V.; Tatu, C.A. Aristolochic Acid I Adsorption onto Activated Carbon: Kinetics, Equilibrium, and Thermodynamic Studies. <i>Processes</i> 2025, 13, 3397. <a href="https://doi.org/10.3390/pr13113397">https://doi.org/10.3390/pr13113397</a></li> </ol>

### Research and extracurricular activities in the field

- 2 workshop activities "Medicină personalizată-abordări inovative în prevenție, diagnostic și terapie" at the International Conference "Smart Diaspora" 2023, 10-13 April; International Conference "know-how exchange on state-of-art methods in microbiological and genetic screening and diagnostic in fertility, maternal and fetal health" at the Romanian-Hungarian cross-border, 28-29 October 2022
- Member of evaluation committee at the "National Symposium, Calitatea - atu pentru viitor, III edition, 2023"
- Moderator at the Symposium "AquaSensTim'24 - APA-ESENȚA VIETII" in the section for teaching staff, experts, and professors, March 22, 2024, Timișoara.
- Scientific poster presentation at "Scientific Student Symposium at Faculty of Industrial Chemistry and Environmental Engineering, V edition, 15 June 2021". Timișoara
- **M. -A Pricop**; Lukinich-Gruia, A.T; Szekeley, F.A.E; Almășan A.L; Calma, C.L , Tatu, C.A.; Păunescu, V . A Preliminary Study On Fatty Acid Methyl Esters Composition In Mitochondria Homogenates Of Rat Organs, 15th Edition of the Conference "New Trends in Chemistry Research", September, 21-22, 2023, Timisoara, Romania; poster presentation
- **M. -A Pricop**; Lukinich-Gruia; Tatu, C.A.; Păunescu, V; Antioxidant Potential Of Aristolochia Clematitis Extracts With Four Different Solvent System; 16th Edition of the Conference "New Trends in Chemistry Research", September, 18-20, 2024, Timisoara, Romania; poster presentation

