DOINA ANTONIA MERCAN

e-mail: antonia.mercan@gmail.com



CURRICULUM VITAE

Date of birth: March 19th, 1992

Place of birth: Campulung Muscel, Romania

Citizenship: Romanian

EDUCATION

07/2021 – Present **PhD candidate, Chemical engineering**

University POLITEHNICA of Bucharest
Study emphases: Nanomaterials used in anti-infectious therapy
Advisors: Prof. Dr. Alexandru-Mihai Grumezescu

10/2014 – 07/2016 **Master of Science (M.Sc), Chemistry**

University of Bucharest
Study emphases: Chemistry of medicines and cosmetics
Advisors: Lecturer Dr. Raducan Adina

10/2011 - 07/2014 **Bachelor of Science (B.Sc.), Chemistry**

University of Bucharest
Study emphases: Biochemistry
Advisors: Lecturer Dr. Raducan Adina

10/2011 - 07/2014 **Bachelor of Economics (B.Econ.), Economics**

Academy of Economic Studies, Bucharest
Study emphases: Economic Management
Advisors: Conf. Dr. Ceptureanu Sebastian

09/2007-07/2011 **High School degree (Baccalaureate examination), Mathematics-Informatics**

National College Mihai Viteazul, Bucharest

PROFESSIONAL EXPERIENCE

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01/2025-Present **Scientific Research Assistant**, University POLITEHNICA of Bucharest

- Contributed to advanced materials research focused on the development and characterization of aerogels for biomedical use;
- Participated in experimental design, data collection, and analysis under the PNRR national recovery and resilience program;
- Assisted in drafting technical reports, scientific documentation, and project deliverables according to research milestones;
- Collaborated with interdisciplinary teams, including faculty researchers, engineers, and project stakeholders.

11/2020-Present **Project Manager**, ARENSIA Exploratory Medicine, Bucharest

- Primary liaison between Sponsor, ARENSIA departments, and vendors, ensuring trial execution in line with ICH-GCP, SOPs, and regulatory standards.
- Oversaw study timelines, budgets, and quality metrics, managed deviations and proposed mitigation strategies.
- Coordinated cross-functional teams and ensured operational readiness (protocols, supplies, documentation).
- Contributed to protocol and ICF development, supported contract negotiations, and co-managed patient recruitment.
- Preparation, maintenance and archiving of internal and external documentation;
- Ensure availability of necessary material and equipment for trial start;
- Input to contract negotiation with 3rd parties/subcontractors;
- Co-management of patient recruitment strategies;
- Supervised AE/SAE reporting and audit activities, including CAPA implementation.
- Delivered onboarding and training for new team members.

01/2020-11/2020 **Clinical Trial Assistant**, Bayer, Bucharest

- Prepare, track, and manage clinical study documentation, EC submissions, and communications with sites and vendors.
- Coordinate Ethics Committee submissions and assist in document distribution and collection.
- Maintain Trial Master File (TMF/eTMF) and support inspection/audit readiness.
- Support study teams across all trial phases and assist with trial supplies and tracking tools.
- Coordinate internal/external meetings, including agenda preparation, minutes, and follow-ups.

04/2019-01/2020 **Laboratory Advisor**, Alpha Medica Stem Clinic, Voinesti, Dambovita District

- Responsible as primary technical consultant/ advisor for nurses, scientists and management;

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- Directs (and performs, as needed) laboratory work and ensures deliverables;
- Provides project leadership including technical progress and financial review;
- Prepares technical reports;
- Trains individuals and develops training programs;
- Supervises laboratory staff;
- Conducts laboratory investigations for anomalous results in a compliant and thorough manner.

06/2016-04/2019 **Quality control stability studies specialist**, Zentiva (Sanofi), Bucharest

- Conduct testing on in-process, finished products, and stability study samples in compliance with GMP standards.
- Interpret and report analytical results accurately and on time.
- Ensure adherence to testing procedures and timelines to support production and regulatory requirements.
- Collaborate with internal teams and support labs to coordinate testing and resolve issues.
- Maintain equipment and inventory; uphold cleanliness and documentation standards.
- Support continuous improvement and report progress/issues to supervisors.

06/2015-06/2016 **Clinical Trial Coordinator**, CIDP Biotechnology Romania, Bucharest

- Design and update TMF;
- Qualitative and quantitative evaluation of trials;
- Measurements with different devices;
- AE/SAE assessment and reporting to the investigator/Quality assurance/Sponsor;
- Preparation of all study documents (i.e. ICF, CRF) & filling the study documents;
- Summary/ preliminary results/ reports write-up (SPF, UVA, WR, VWR, Phototoxicity studies, Pigmentation/Antipigmentation/Depigmentation, Efficacy studies);
- Verification of study related data.

02/2011-06/2016 **Founding member,** Association of „Dezvoltarea Idealurilor Tinerilor" (NGO), Bucharest

- General secretary of NGO;
- Recruitment of new members;
- Organizing conferences and events;
- Logistics for the NGO;

09/2014-09/2015 **Teacher**, "Timotei Cipariu" Greek Catholic High School, Bucharest

- Teacher of chemistry to high school and secondary education students.

09/2014-04/2015 **Intern**, National Institute of Endocrinology C. I. Parhon, Bucharest

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- Internship at an analysis laboratory – haematology, sero-immunology, microbiology, biochemistry.

07/2013-09/2013 **Intern**, Ascom Estate Group, Bucharest

- Management trainee at a real estate company.

06/2013-08/2013 **Summer Internship**, Institutul Naţional de Cercetare Cantacuzino

- Biochemistry analysis of microbiology samples.

04/2010-03/2012 **Assistant Supervisor,** SC Metalconsult SRL, Bucharest

- Consultancy on ferrous products for clients.

PUBLICATIONS

- **Mercan, D.-A.**; Niculescu, A.-G.; Grumezescu, A.M. Nanoparticles for Antimicrobial Agents Delivery—An Up-to-Date Review. *Int. J. Mol. Sci.* **2022**, *23*, 13862. https://doi.org/10.3390/ijms232213862

- **Mercan, D.-A.**; Niculescu, A.-G.; Bîrcă, A.C.; Cristea, D.-E.; Moroșan, A.; Tudorache, D.-I.; Purcăreanu, B.; Vasile, B.Ș.; Radu, D.; Grigoroscuta, M.A.; et al. Vortex-Mixing Microfluidic Fabrication of Micafungin-Loaded Magnetite–Salicylic Acid–Silica Nanocomposite with Sustained-Release Capacity. Materials **2024**, 17, 5816. https://doi.org/10.3390/ma17235816

- **Mercan, D.-A**.; Tudorache, D.-I.; Niculescu, A.-G.; Mogoantă, L.; Mogoşanu, G.D.; Bîrcă, A.C.; Vasile, B.Ș.; Hudiță, A.; Voinea, I.C.; Stan, M.S.; et al. Antimicrobial Coatings Based on Hybrid Iron Oxide Nanoparticles. *Nanomaterials* **2025**, *15*, 637. https://doi.org/10.3390/nano15090637

- Grămadă (Pintilie), A.M.; **Mercan, D.-A.;** Niculescu, A.-G.; Grumezescu, A.M.; Moldoveanu, E.T.; Tudorache (Trifa), D.-I.; Balaure, P.C.; Rădulescu, M.; Alberts, A. Shifting From Traditional Antibiotics To Nanoparticle-Based Therapeutics As Promising Alternatives Against Multi-Drug-Resistant Pathogens. *U.P.B. Scientific Bulletin Series B* **2025,** *87*.

LANGUAGES

Romanian (native language)

English (Cambridge ESOL Level 2 Certificate in ESOL International Certificate in Advanced English (Level C1))

French (B2)

Spanish (B2)

REFERENCES

- **Conf. Dr. Raducan Adina**

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