PERSONAL INFORMATION **ALINA CRENGUȚA NICOLAE**



WORK EXPERIENCE

CURRENT POSITION

Associate Professor, PhD, Department of Biochemistry, Faculty of Pharmacy, „Carol Davila" University of Medicine and Pharmacy of Bucharest

WORK EXPERIENCE

DATES October 2008 – ongoing

OCCUPATION OR POSITION HELD Teaching professional: university preparator (2008-2013), assistant professor (2013-2015), lecturer (2015-2017), associate professor (2017-ongoing)

MAIN ACTIVITIES AND RESPONSIBILITIES Activities included in the job description:

- Coordination of practical work and courses with third-year students (subjects: Biochemistry and Biological Drugs), as well as teaching activities for residents (specialization in Clinical Pharmacy) and master's students; conducting research activities within the Discipline's specific projects;
- Supervision of numerous bachelor's and dissertation theses;
- Coordination of multiple scientific papers presented at Scientific Sessions and Student Congresses.

NAME AND ADDRESS OF EMPLOYER „Carol Davila" University of Medicine and Pharmacy of Bucharest, Faculty of Pharmacy, Biochemistry Department
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EDUCATION AND TRAINING

DATES	2024-ongoing
TITLE OF QUALIFICATION AWARDED	Master, Specialization: Nutrition and Food Safety
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	University of Medicine and Pharmacy Carol Davila - Bucharest
DATES	2022
TITLE OF QUALIFICATION AWARDED	Senior Pharmacist, Specialization in Clinical Pharmacy, certified by Order of the Ministry of Health no. 2634/2022
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	Carol Davila University of Medicine and Pharmacy, Bucharest, Faculty of Pharmacy
DATES	2014- 2016
TITLE OF QUALIFICATION AWARDED	Master's Studies, Specialization: Biotechnologies in the Pharmaceutical Industry
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	University of Agronomic Sciences and Veterinary Medicine – Bucharest, Faculty of Biotechnologies
DATES	2011- 2014
TITLE OF QUALIFICATION AWARDED	Residency in the specialization: **Clinical Pharmacy: Specialist Pharmacist, Clinical Pharmacy**, board certified through Order of the Minister of Health no. 1/2015
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	„Carol Davila" University of Medicine and Pharmacy of Bucharest, Faculty of Pharmacy
DATES	2008- 2013
TITLE OF QUALIFICATION AWARDED	Doctorate **in the Pharmacy Filed** (confirmed through Order of the Minister of Education, Research, Youth and Sports no. 5581/03.12.2013) „Biochemical Mechanisms involved in the resistance of live organisms to drugs", PhD supervisor: Dr. Niculina Mitrea, Ph.D.
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	„Carol Davila" University of Medicine and Pharmacy of Bucharest, Faculty of Pharmacy
DATES	2001-2006

TITLE OF QUALIFICATION AWARDED	**Bachelor's Degree in Pharmacy** (no. 261/13.05.2008)
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	„Carol Davila" University of Medicine and Pharmacy of Bucharest, Faculty of Pharmacy
DATES	April 2009
TITLE OF QUALIFICATION AWARDED	**English Certificate**
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	British Council Romania
DATES	March 2007
TITLE OF QUALIFICATION AWARDED	Certificate of Continuous Professional Development „New Therapeutic Strategies. Modern Ophthalmological Forms".
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	**Romanian Board of Pharmacists**
DATES	October 2006
TITLE OF QUALIFICATION AWARDED	Certificate of Continuous Professional Development „Hepatoprotection – a real need of contemporary man, Nasal Decongestants – between traditional and modern".
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	**Romanian Board of Pharmacists**
DATES	2005-2006
TITLE OF QUALIFICATION AWARDED	Certificate obtained following the participation to the course „Pharmacy – Routes of administration", held within "GSK for Excellency" program launched in partnership with the Ministry of Education and Research.
NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	**„Carol Davila" University of Medicine and Pharmacy of Bucharest, Faculty of Pharmacy**
DATES	1997-2001
TITLE OF QUALIFICATION AWARDED	**Baccalaureate Diploma**

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NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING

"Mihai Sadoveanu" Theoretical High School, Bucharest

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE Romanian

OTHER LANGUAGES English, French

SELF-ASSESSMENT	Understanding		Speaking		Writing
EUROPEAN LEVEL (*)	Listening	Reading	Spoken interaction	Spoken production	Writing
ENGLEZĂ	C2 Proficient user	Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
FRANCEZĂ	C2 Proficient user	Proficient user	C1 Proficient user	C1 Proficient user	B2 Independent user

(*) Common European Framework of Reference for Languages

ORGANIZATIONAL SKILLS AND COMPETENCES

Planning and organizing skills as well as team spirit, good ability to communicate, understand and maintain an optimal work climate, collaboration and respect in the team; systematic thinking, ability to anticipate, identify and solve problems.

ANNEX VI contains information on participation in the activities of several professional-scientific structures, as well as participation in the organization of national and international scientific events.

TECHNICAL SKILLS AND COMPETENCES

Abilities to use, test and configure tools specific to the laboratory of biochemistry and molecular biology; mastery of the methodology for testing the biochemical effects induced by xenobiotics.

A SKILLS AND COMPETENCES

Advanced computer skills, Microsoft Office suite (Word, PowerPoint, Excel, Outlook)
Advanced knowledge in the use of programs for acquisition / analysis of experimental data / statistics, specific to complex devices (FLWinLab, ChemWellR6).

CONTINUING EDUCATION

- The 2nd International Electronic Conference on Clinical Medicine (ECCM 2024), 13th - 15th November 2024
- The 4th International Electronic Conference on Nutrients - Plant-Based Nutrition Focusing on Innovation, Health, and Sustainable Food Systems, 16th - 18th October 2024
- FEBS Education and Training Committee hands-on workshop: Promoting visual literacy in bio-molecular sciences education, September 24, 2024, "Thoma Ionescu" Reading Room, Faculty of Medicine, Carol Davila University of Medicine and Pharmacy, Bucharest
- Biochemistry Focus webinar on "Engineering the future: from metalloenzymes to synthetic cells and therapeutic proteins", 23rd July 2024, Biochemical Society
- The FIP Pharmacy Practice Practice Research Special Interest Group (PPR SIG) 2024 virtual meeting, "Pharmacy practice research summer meeting for PhD students, postdoctoral fellows and supervisors", 4 and 5 July 2024, International Pharmaceutical Federation (FIP)
- Workshop "Developing the capacity of teachers to identify and understand the needs of students with disabilities", organized within the IDF project "Transforming the University of Medicine and Pharmacy "Carol Davila" of Bucharest into an Inclusion Hub for Students with Disabilities", 30.05.2024, Faculty of Medicine, UMFCD
- Pharmaceutics Webinar, 3D and 4D Printing in Pharmaceutics, Feb 8th , 2023
- 8th Swiss Narcolepsy Day virtual congress: February 2nd , 2023
- International Pharmaceutical Federation (FIP) Digital Events:
    - The role of pharmacists in the prevention and management of sleep disorders, March 16, 2023
    - Mentoring a Brighter Future for Pharmacy, March 7, 2023
- "Precision Medicine: What will it Cost, February 7, 2023
- Telemedicine trends and telepharmacy services' impact on pharmacy practice, 17 January 2023
- Nutrition for immunity: Stronger immune systems through healthy nutrition, September 29, 2022

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- Technology and artificial intelligence in pharmaceutical education, 17 May 2022
- Pharmacy school management for the shifts towards remote learning & virtual education for pharmaceutical education, April 12, 2022
- In Vitro In Vivo (IVIV) Correlations: Establishing a correlation between in vitro tests and in vivo product performance, February 3, 2022
- COVID-19 Complications - What Should Pharmacists Know, November 16, 2021
- June 18, 2020 - participation in the ESE Talks online Conference Endocrine Conditions in the COVID-19 Era organized by the European Society of Endocrinology – Topic: Thyroid
- June 11, 2020 - participation in the webinar "Integration of transcriptomics and antibody-based proteomics for cell type-specific localization of SARS-CoV-2 related proteins" organized by Atlas Antibodies
- June 11, 2020 - participation in the ESE Talks Online Conference Endocrine Conditions in the COVID-19 Era organized by the European Society of Endocrinology - *Hyponatremia / Diabetes Insipidus*
- June 4, 2020 - participation in the ESE Talks online conference Endocrine Conditions in the COVID-19 Era organized by the European Society of Endocrinology - *Cushing's Syndrome*
- May 28-29, 2020 - NutriTerra 2020 Digital Congress: “Nutrition, Diet Therapy and food safety in the context of COVID-19 pandemics!”
- May 28, 2020 - participation in the ESE Talks online conference Endocrine Conditions in the COVID-19 Era organized by the European Society of Endocrinology- Topic: *Vitamin D/ Calcium*
- May 21, 2020 - participation in the ESE Talks online conference. Endocrine Conditions in the COVID-19 Era organized by the European Society of Endocrinology- Topic *Obesity*
- May 14, 2020 - participation in the ESE Talks online conference. Endocrine Conditions in the COVID-19 Era organized by the European Society of Endocrinology- Topic *Diabetes*
- May 13, 2020 - ESO-WSO live webinar jointly Organised by the European Stroke Organisation & the World Stroke Organization: Live webinar presenting results from large clinical trials:

  Efficacy of fluoxetine – a randomised controlled trial in stroke, Presentor: Erik Lundström, MD, Associate Prof. of Neurology, Institute of Neuroscience, Uppsala University, Sweden

  A randomized acute stroke trial of endovascular therapy in acute basilar artery occlusion, Presentor: Dr. Wouter Schonewille, Department of Neurology, St. Antonius Hospital, Nieuwegein, The Netherlands

Endovascular thrombectomy with or without intravenous alteplase in acute stroke, Presentor: Jianmin Liu, Changhai Hospital in Shanghai, Department of Neurosurgery, Cerebrovascular Center, China

- April 30, 2020 - participation in the webinar "Future of Health Virtual Summit" organised by Why Summits
- April 22– participation in the webinar “What is a Hackathon” organised by UMFCD
- April 24-26– participation in the first online Pan-European Hackathon, organised by the European Commission through the European Council for Innovation
- March 27, 2020 – participation in the webinar "Phenotypic screening using iPSC-based human disease biology" organised by Ncardia under the patronage of Drug Target Review
- March 2018 – First Aid Course organised by Romanian Red Cross and the Teachers’ Association of the Faculty of Pharmacy of Bucharest
- June 9-11, 2016 – Summer School ACDFFB on the topic: Pharmaceutic Education for the Future, organised by the Teachers’ Association of the Faculty of Pharmacy of Bucharest, in collaboration with the Department for the teachers’ training of the University of Bucharest.
- March 2015-Participation with FEBS scholarship at the webinar „Enhancing Molecular Bioscience Education”, Cambridge, United Kingdom, held by UK Biochemical Society and FEBS
- January 2012 – „Quality Management System according to **SR EN ISO 9001:2008**”; „Environment Management System according to **SR EN ISO 14001:2005**”; „Food Safety Management System according to SR **EN ISO 22000:2005**”
- 2011 – 2012 –the 6-months course „**General Pedagogy**”, organised by „Carol Davila” University of Medicine and Pharmacy of Bucharest, Faculty of Pharmacy
- September 14-17, 2011- The 4th International IMBG Conference for Young Scientists, Kiev, Ukraine, organised by IMBG- Institute of Molecular Biology and Genetics, Ukraine
- May 24, 2011 – participation to the Amex seminar“ Characterization Techniques of Pharmaceutical Products and Biological Samples”
- April 29, 2009 – **Cell Culture Seminar** LGC Standards
- March 17, 2009 – participation to the Able&Jasco seminar
- March 13, 2009 – participation to the conference “Endocrinology and Metabolism”, organised by “Nicolae Simionescu” Institute of Biology and Cellular Pathology
- March 11, 2009 – participation to the conference “Sarcomeric processes in the altered cardiac function”, organised by “Nicolae Simionescu” Institute of Biology and Cellular Pathology

- April 2008 – international course „**DL-101 General Course on Intellectual Property**”, held by **World Intellectual Property Organisations**
- April 2006 - "e-progress in the pharmaceutical world”, organised by Farmexpert in collaboration with the Romanian Board of Pharmacists

Participation to international scientific events:

- The 10th Congress of Pharmacists of the Republic of Moldova with international participation "FACULTY OF PHARMACY - SIX DECADES OF INNOVATION AND PROGRESS", Faculty of Pharmacy of the State University of Medicine and Pharmacy "Nicolae Testemitanu", November 2024, Chisinau, Republic of Moldova
- EUFEPS Annual Meeting 2024, 23-25 May 2024, Debrecen, Hungary
- Congressus Pharmaceuticus Hungaricus XVII, 23-25 May 2024, Debrecen, Hungary with presentation of scientific papers:
- *Elucidating molecular interactions between endogenous small molecules and their nuclear targets*
- *The influence of pharmacologically active substances on neurotransmitters' levels within the central nervous system*
- 80th FIP World Congress of Pharmacy and Pharmaceutical Sciences 2022, Seville, Spain, September 18-22, 2022, with presentation of scientific papers:
- *P-glycoprotein neurotransmitters homeostasis modulation following the administration of CNS active drugs*
- *The chronomodulatory potential of the therapeutic association of melatonin with irbesartan, on an experimental model of cardiovascular disease*
- 27th Balkan Clinical Laboratory Federation (BCLF) Congress and 30th National Biochemistry Congress (NBC) of TBS, from October 27th to October 31st 2019 in Antalya, Turkey, organized by the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) and the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)
- 20th European Congress of Endocrinology, 19 - 22 May 2018, Barcelona, Spain, organized by the European Society of Endocrinology
- 19th European Congress of Endocrinology, 20 - 23 May 2017, Lisbon, Portugal, organized by the European Society of Endocrinology
- „Enhancing Molecular Bioscience Education” FEBS workshop, March 2015- Cambridge, United Kingdom, organized by the UK Biochemical Society and FEBS
- International Conference for Young Scientists -The 4th International IMBG Conference for Young Scientists, Kiev, Ukraine, 14-17 September 2011, organised by IMBG- Institute of Molecular Biology and Genetics, Ukraine
- The 2nd PharmSciFair, June 12-15 2009, Nice, France

National scientific events:

- Participation in the "Pharmaceutical Days of the Faculty of Pharmacy from Constanța" conference organized under the aegis of "Ovidius" University of Constanța, September 2024, with two papers, one of which received an award:
  - *Oxidative Stress and Inflammation Biomarkers in Correlation with Vitamin D Dynamics in Heart Failure Management*
  - *Modulation of Biochemical Parameters in Cancer Patients through Targeted Biological Therapies*
- The NutriTerra Virtual Congress - 1st Edition: "Nutrition, Dietary Therapy, and Food Safety in the Context of the COVID-19 Pandemic," held online from May 28-29, 2020.
- The National Psychotoxicology Conference "The Importance of a Multidisciplinary Approach in Promoting Patient Safety," May 18-20, 2017, Capital Plaza Hotel, Bucharest

- Participation in the Scientific Congress with international participation of Carol Davila University of Medicine and Pharmacy 2018, 2017, 2016
- Participation in the Symposium "Biological drugs: innovative and biosimilar in the therapeutic arsenal", June 6, 2018, Pullman Hotel, Bucharest, organized by the Romanian Board of Pharmacists
- Participation in the National Congress of Pharmacy, 16th edition, "Pharmacy - centre of interdisciplinary of life sciences", Bucharest, September 28 - October 1, 2016
- Participation in the International Symposium "Priorities of Chemistry for a Sustainable Development - PRIOCHEM", 12th edition, Bucharest, October 27-28, 2016.
- Participation in the Conference organized within the project "Sustainable valuation of medicinal and aromatic plant waste in order to obtain value-added products", Bucharest, November 15, 2016.
- Participation in the Conference "Clinical Pharmacy-New Frontiers", Bucharest, June 17-18, 2016
- Participation in the 11th edition of the Academic Symposium Nicolae Cajal of the Romanian Academy of Medical Sciences, Bucharest, March 17-19, 2016.
- Participation in The 2nd International Conference on Interdisciplinary Management of Diabetes Mellitus and its Complications, INTERDIAB 2016 – Diabetes Mellitus as Cardiovascular Disease, organized by the Association of Renal Metabolic and Nutritional Studies, March 3-5, 2016 in Bucharest, Romania.

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- Guest lecturer at the MedDEX National Multidisciplinary Conference "Multidisciplinary approach to chronic diseases" Bucharest, June 17-18, 2016
- Guest lecturer at the MedDEX National Multidisciplinary Conference "Multidisciplinary approach to chronic diseases" Bucharest, July 28-29, 2016
- Participation in "The 6th conference of the National Neuroscience Society of Romania, SNN", 2015, Bucharest, October 29-31, 2015
- Participation in the international symposium "Chemistry Priorities for Sustainable Development-PRIOCHEM", 11th edition, Bucharest, October 29-30, 2015
- Participation in the "First Romanian National Congress of Toxicology with international attendance" Congress, Bucharest, October 16-18, 2015.
- Participation in the National Pharmacy Congress "Vision and innovation in pharmaceutical practice - Horizon 2020", Iaşi, September 2014.
- Participation in the International Conference of the Romanian Society of Biochemistry and Molecular Biology, Baile Felix, Oradea, June 5-6, 2014.
- Participation in the Annual Congress of the Romanian Medical Association, Bucharest, April 10-12, 2014
- Participation in the Annual Congress of the Romanian Medical Association, Bucharest, May 31 – June 2, 2013
- Participation in the International Conference of the Romanian Society of Biochemistry and Molecular Biology, Craiova, September 28-30 2011
- Participation in the Timmedica International Congress, Timisoara, June 16-18, 2011.
- Participation in the National Pharmacy Congress "Today's Romanian Pharmacy, ready for tomorrow's changes?", Târgu-Mureş, October 13-16, 2010;
- Participation in the Annual Congress of the Romanian Medical Association, Bucharest, May 6-8, 2010;
- Participation in the "2nd Conference of Doctoral Students in Medicine and Pharmacy", Târgu Mureş, July 8-10, 2009;
- Participation in the National Symposium "The drug: from conception to use", Iasi, May 20-22, 2009;

PARTICIPATION TO RESEARCH PROJECTS

Scientific Manager of the Romanian partner within the Romania-South Africa bilateral project, 15 WB-2016, entitled "Self-emulsifying delivery system for new metal complexes as materials with potential health use" (*SEDScomplex),* concluded with the Executive Union for Financing Education Research, Development and Innovation (UEFISCDI) - Directorate for Financing for Development and Innovation

Member of the research team: 1 project carried out within the National Research-Development Plan and 2 national clinical trials

- Member of the implementation team of partner P1, in research contract 176/2014 (PN II-Partnerships in priority areas).
- Member of the national clinical study: "The influence of omega-3 fatty acids on the metabolic, immunological and clinical profile in patients diagnosed with psoriasis", conducted under the coordination of Queisser Pharma, 2014-2016
- Member of the national clinical study: "The influence of polyunsaturated fatty acids on the monoaminergic status of patients diagnosed with ADHD", coordinator Queisser Pharma, 2014-2017

ANNEX I contains more information on research and development projects won through competition

AWARDS OR OTHER ELEMENTS OF SCIENTIFIC CONTRIBUTION RECOGNITION

1. International awards (1):

- **Absolute First Prize** at INTERDIAB 2016- The 2nd International Conference on Interdisciplinary Management of Diabetes Mellitus and its Complications

2. National awards (11):

- **Romanian Medical Association Excellence Awards (3)**
- **CNCSIS Award (1)**
- **E-POSTER Award, Constanţa 2024 (1)**
- **E-POSTER Award, CNFR 2014 (1)**

ANNEX II contains more information on prizes or other elements of recognition of scientific contributions

BOOKS AND CHAPTERS IN SPECIALISED BOOKS

Books in international publishing houses, sole author: 1
Books in international publishing houses: 3
Books in national publishing houses: 4
Chapters in books published in international publishing houses, co-author: 10
Chapter in books published in national publishing houses, co-author: 1

ANNEX III contains more information on books and chapters in specialized books.

SCIENTIFIC PAPERS PUBLISHED IN SPECIALISED JOURNALS IN ROMANIA AND ABROAD

1. Scientific papers published *in extenso*:

- **43** articles in **ISI** indexed journals
- **1** article in journals indexed in international data bases **(BDI)**

- **2** articles in **CNCSIS** journals (category B at least)
- **6** articles in other journals

2. Scientific papers published in abstract:

- **14** articles in **ISI** indexed journals
- **44** articles in **ISSN/ISBN** journals/volumes
- **11** articles in no **ISSN/ISBN** journals/volumes

ANNEXES IV and V contain more information on scientific papers published in national and foreign journals

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

National and International Societies and Organizations:

- Romanian Society of Pharmaceutical Sciences;
- Romanian Society of Biochemistry and Molecular Biology
- National Society of Neurosciences
- Romanian Board of Pharmacists
- Association of the Faculty of Pharmacy Bucharest
- **European Society of Endocrinology (ESE)**
- **International Pharmaceutical Federation (FIP)**
- **American Society for Nutrition (ASN)**
- **European Biological Rhythms Society (EBRS)**

OTHER ACTIVITIES

- Review Editor on Neuropharmacology and Drugs Outcomes Research and Policies for international journals
- President of the Association of Faculty Members of the Faculty of Pharmacy Bucharest (ACDFFB), term 2023-present
- Member of the Editorial Board of **FARMACIA Journal**, scientific publication in the pharmaceutical field, indexed by ISI - *Editorial Managing Assistant*
- Guest lecturer to scientific events organized for the continuing education of doctors and pharmacists, and pharmacist students in Europe
- Secretary in **doctoral admission commissions**

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- Secretary in the **commissions supporting the license and dissertation theses**
- Secretary in **commissions for occupying teaching positions**
- Member in **commissions for occupying teaching positions**
- Supervisor and proof-reader at the entrance exams at the Faculty of Pharmacy, Bucharest
- Supervisor and proof-reader at undergraduate exams at the Faculty of Pharmacy, Bucharest

ANNEXES

ANNEX I: Research and development projects won through competition

ANNEX II: Awards or other elements recognizing scientific contributions

ANNEX III: Books and chapters in specialized books

ANNEX IV: Scientific papers published in extenso

ANNEX V: Scientific papers presented at Congresses and scientific meetings, published in summary

ANNEX VI: Recognition and impact of the activity

ANNEX I
Research and development projects won through competition

As a manager or member of the research team**:**

A. National research projects (2):

1. Scientific Manager of the Romanian partner within the Romania-South Africa bilateral project, 15 WB-2016, entitled "Self-emulsifying delivery system for new metal complexes as materials with potential health use" (SEDScomplex), concluded with the Executive Union for Financing of Higher Education, Research, Development and Innovation (UEFISCDI) - Directorate for Financing Development and Innovation.
2. Member within the project: "Innovative therapeutic products with prophylactic and curative action for the zoo-veterinary sector" (SANOVET). The coordinating institution being the University of Agronomic Sciences and Veterinary Medicine (USAMV), Bucharest.

B. National clinical studies (2)

1. Member of the national clinical study: "The influence of omega-3 fatty acids on the immunological and clinical metabolic profile in patients diagnosed with psoriasis", conducted under the coordination of Queisser Pharma, 2014-2016
2. Member of the national clinical study: "The influence of polyunsaturated fatty acids on the monoaminergic status of patients diagnosed with ADHD", coordinator Queisser Pharma, 2014-2016

ANNEX II

Awards or other elements recognizing scientific contributions of the candidate

International awards (1):

1. Absolute First Prize of the INTERDIAB Congress 2016 (The 2nd International Conference on Interdisciplinary Management of Diabetes Mellitus and its Complications) –Diabetes Mellitus as Cardiovascular Disease, organized by the Association of Renal Metabolic and Nutritional Studies, March 3-5, 2016 in Bucharest, Romania, for the paper: Characteristics of glucose homeostasis and lipidic profile in a hamster metabolic syndrome model, after the co-administration of melatonin and irbesartan in a multiparticulate pharmaceutical formulation, Authors: Cristina Manuela Drăgoi, **Alina Crenguța Nicolae**, Corina Grigore, Cristina Elena Dinu -Pîrvu, Andreea Letiția Arsene

National awards / prizes (5):

1. E-POSTER Award, "Pharmaceutical Days of the Faculty of Pharmacy from Constanța" Conference organized under the aegis of "Ovidius" University of Constanța, September 2024, for the poster "Oxidative Stress and Inflammation Biomarkers in Correlation with Vitamin D Dynamics in Heart Failure Management", authors: Cristina Manuela Drăgoi, Sergiu Sipos, Ion-Bogdan Dumitrescu, **Alina-Crenguța Nicolae**
2. Romanian Academy Award, December 19, 2014, Bucharest, for the TREATMENT OF INFECTIOUS ANIMAL DISEASES, VIROSES AND PRIONIC DISEASES, VOL II, Universitas XXI, Iasi, 2012, ISBN: 978-606-538-084-2, Authors: Tudor Perianu, **Alina Crenguța Nicolae**.
3. E-POSTER Award of the National Congress of Pharmacy in Romania, 15th edition, September 24-27, 2014, Iasi, for the e-poster Experimental studies on mice on the dynamics of oxidative status in serum, liver and brain after administration of active CNS drugs, Authors: **Alina Crenguța Nicolae**, Niculina Mitrea, Cristina Manuela Drăgoi, Maria Zinaida Constantinescu, Andreea Letiția Arsene.
4. Excellence Award of the Annual Congress of the Romanian Medical Association, April 10-12, 2014, Bucharest, for the paper Clinical study regarding p-glycoprotein serum levels in patients diagnosed with psychiatric, neurological, inflammatory or neoplastic disorders, Authors: Maria Zinaida Constantinescu, **Alina Crenguța Nicolae**, Cristina Manuela Drăgoi Niculina Mitrea, Vlad Vuță, Ruxandra Vuța, Andreea Letiția Arsene

5. Excellence Award of the Annual Congress of the Romanian Medical Association, May 31-June 2, 2013, Bucharest, for the paper In vitro studies regarding P-glycoprotein activity on N2a cell line, Authors: **Alina Crenguța Nicolae**, Niculina Mitrea, Cristina Manuela Drăgoi, Maria Zinaida Constantinescu, Andreea Letiția Arsene
6. Excellence Award of the Annual Congress of the Romanian Medical Association, May 6-8, 2010, Bucharest, for the paper Spectrofluorimetrical *in vitro* research on the interaction of the melatonin with the double catenary DNA in calf thymus, Authors: Cristina Manuela Drăgoi, Andreea Letiția Arsene, Niculina Mitrea, **Nicolae Alina**

Scholarships offered by International professional and scientific organizations (2):

1. August 2016- competition-won participation scholarship for the Young Scientist Forum și FEBS Annual Congress, Kusadasi, Turkey, scientific event cancelled for social and political reasons
2. March 2015- **FEBS scholarship** for the participation to the workshop „Enhancing Molecular Bioscience Education", Cambridge, United Kingdom, organised by UK Biochemical Society and FEBS

ANNEX III
Books and chapters in specialized books

Books in international publishing houses:

1. **THE ERA OF PERSONALIZED AND PRECISION MEDICINE**, edited by Cristina Manuela Drăgoi, **Alina Crenguța Nicolae** and Ion-Bogdan Dumitrescu, October 2024, MDPI, Basel, Switzerland ISBN978-3-7258-2296-6, https://doi.org/10.3390/books978-3-7258-2295-9
2. **CIRCADIAN RHYTHM - NEW INSIGHTS INTO PHYSIOLOGICAL AND PATHOLOGICAL IMPLICATIONS,** edited by Cristina Manuela Drăgoi, **Alina Crenguța Nicolae** and Ion-Bogdan Dumitrescu, DOI: 10.5772/intechopen.102021, 2022, INTECH, ISBN: 978-1-80355-370-2
3. **MELATONIN. MOLECULAR BIOLOGY, CLINICAL AND PHARMACEUTICAL APPROACHES,** edited by: Cristina Manuela Dragoi, **Alina Crenguța Nicolae**, InTech - Rijeka, Croatia, 2018, ISBN: 978-1-78984-504-4
4. **P-GLYCOPROTEIN AND THE DEVELOPMENT OF MULTIDRUG RESISTANCE-ALINA CRENGUȚA NICOLAE,** LAP LAMBERT Academic Publishing, 2014, ISBN 978-3-3.

Book chapters published in international publishing houses, co-author:

1. **SIRTUINS AND MELATONIN: LINKING CHRONOBIOLOGY TO INFLAMMATION AND AGING,** authors: Ungurianu, Anca, Cristina Manuela Drăgoi, **Alina Crenguța Nicolae**, Ion-Bogdan Dumitrescu, Daniela Grădinaru, and Denisa Margină. Advances in Geriatrics and Gerontology - Challenges of the New Millennium. IntechOpen, 2024. doi:10.5772/intechopen.1003914.
2. **EMERGING STRATEGIES IN DRUG DEVELOPMENT AND CLINICAL CARE IN THE ERA OF PERSONALIZED AND PRECISION MEDICINE**, authors: Cristina Manuela Drăgoi, **Alina Crenguța Nicolae** and Ion-Bogdan Dumitrescu, in the book Emerging Strategies In Drug Development And Clinical Care In The Era Of Personalized And Precision Medicine, 2024, MDPI, Basel, Switzerland ISBN978-3-7258-2296-6, https://doi.org/10.3390/books978-3-7258-2295-9
3. **CLINICAL AND ELECTROPHYSIOLOGICAL CHANGES IN PEDIATRIC SPINAL MUSCULAR ATROPHY AFTER 2 YEARS OF NUSINERSEN TREATMENT,** authors: Mihaela Axente, Andrada Mirea, Corina Sporea, Liliana Pădure, Cristina Manuela Drăgoi, **Alina Crenguta Nicolae** and Daniela Adriana Ion in the book Emerging Strategies In Drug Development And Clinical Care In The Era Of Personalized And Precision Medicine, 2024, MDPI, Basel, Switzerland ISBN978-3-7258-2296-6, https://doi.org/10.3390/books978-3-7258-2295-9
4. **UNTANGLING THE ESSENTIAL LINKS AMONG THE CIRCADIAN RHYTHM, HOMEOSTASIS OF THE HUMAN BODY, AND THE NUTRITIONAL, BEHAVIOURAL, AND PATHOLOGICAL INTERFERENCES**, authors: Cristina Manuela Drăgoi, Ion-Bogdan Dumitrescu, **Alina Crenguța Nicolae**, CIRCADIAN RHYTHM, DOI: 10.5772/intechopen.102021, 2022, INTECH, ISBN: 978-1-80355-370-2
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ANNEX V

Scientific papers presented in congresses and scientific events published in abstract

In ISI Thomson Reuters indexed journals

1. Nicolae, A.C.; Sîrbu, C.; Drăgoi, C.; Dumitrescu, I.B. Nutritional Modulation of Biochemical Pathways in Metabolic and Neuropsychiatric Conditions, in Proceedings of the 2nd International Electronic Conference on Clinical Medicine, 13–15 November 2024, MDPI: Basel, Switzerland
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3. **Alina Crenguța Nicolae**, Andreea Letitia Arsene, Maria Ladea, Mihnea Manea, Mihai Bran, Olivia Timnea, Daniela Elena Popa, George Traian Alexandru Burcea Dragomiroiu, Bruno Stefan Velescu, Cristina Manuela Drăgoi, Ion-Bogdan Dumitrescu. Implications of dietary omega-3 fatty acid supplementationon oxidative damage and inflammatory response in type 2 diabetic depressive patients. Endocrine Abstracts, 2018, 56 EP89 | DOI: 10.1530/endoabs.56.EP89
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7. Cristina Manuela Dragoi, **Alina Crenguța Nicolae**, Daniela Elena Popa, Ion-Bogdan Dumitrescu, Andreea Letitia Arsene, Corina Grigore, Cristina Elena Dinu-Pirvu. Oxidative stress and metabolic profiles assessment after melatonin and irbesartan co-administration in a novel pharmaceutical formulation. Endocrine Abstracts, 2017, 49 EP376 | DOI: 10.1530/endoabs.49.EP376
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13. **A. C. Nicolae**, C.M. Dragoi, V. Vuta, G. T. A. Burcea-Dragomiroiu, D. E. Popa, I. Dumitrescu, A. L. Arsene. Pgp expression in mice brain tissue after the administration of some CNS active drugs, FEBS Journal 283 (Suppl. 1) (2016) 12–54 DOI: 10.1111/febs.13805
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2. Cristina Manuela Drăgoi, Ion-Bogdan Dumitrescu, **Alina Crenguța Nicolae**. Chronobiological Efficacy of Combined Therapy In Metabolic Diseases, Abstract book of The 10th Congress of Pharmacists of the Republic of Moldova with international participation "Faculty of Pharmacy - Six Decades of Innovation and Progress", Faculty of Pharmacy of the State University of Medicine and Pharmacy "Nicolae Testemitanu", November 2024, Chisinau, Republic of Moldova
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16. Cristina Manuela Drăgoi, **Alina Crenguța Nicolae**, Niculina Mitrea, Andreea Letiția Arsene. Mecanismele biochimice de reglare a tensiunii arteriale şi efectele cardioprotectoare ale melatoninei, Congresul Naţional de Farmacie, ediţia a XVI-a, „ Pharmacy – centre of the interdisciplinary of life sciences", Bucharest, September 28 – October 1, 2016, published in abstracts volumes with ISSN 2537-2823.
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19. Cristina Manuela Drăgoi, **Alina Crenguța Nicolae**, Corina Grigore, Andreea Letiția Arsene.The evaluation of the metabolic profile following the administration ofmelatonin in association with irbesartan, on a hamster experimental model, International Symposium "Priorities of Chemistry for a Sustainable Development - PRIOCHEM", 11th edition, Bucharest, October 29-30, 2015.
20. Andreea Letiția Arsene, Niculina Mitrea, **Alina Crenguța Nicolae**, Cristina Manuela Drăgoi. Biochemical mechanisms involved in the etiopathogeny of prionic disease, First Romanian National Congress of Toxicology with international attendance, Bucharest, October 16-18, 2015, ISBN 978-457-878-005
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24. Andreea Letiția Arsene, **Alina Crenguța Nicolae**, Niculina Mitrea, Maria Zinaida Constantinescu, Cristina Manuela Drăgoi. Quantification of P-Glycoprotein Expression in the Murine Cell Line N2A, Under the Influence of CNS Active Drugs, National Pharmacy Congress "Vision and Innovation in the pharmaceutical practice - Orizont 2020", Iaşi, September 2014, published in abstracts volume, ISBN 978-606-544-252-8
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30. Cristina Manuela Drăgoi, Valentina Uivaroşi, Andreea Letiția Arsene, Niculina Mitrea, **Alina Crenguța Nicolae.** *In vitro* study on the binding properties of novel ruthenium (III) complexes with human serum transferrin, The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, June 5-6, 2014, Oradea, abstract published in Romanian Journal of Biochemistry, 51 (Suppl.), Ed. Academiei Române, ISSN 1582-3318
31. Andreea Letiția Arsene, Niculina Mitrea, Cristina Manuela Drăgoi, **Alina Crenguța Nicolae**. New signaling molecular pathways of the endogenous indolergic system, The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, June 5-6, 2014, Oradea, abstract published in Romanian Journal of Biochemistry, 51 (Suppl.), Ed. Academiei Române, ISSN 1582-3318
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34. Denisa Ioana Udeanu, Iuliana Ionașcu, Cristina Ciofrângeanu, Cristina Manuela Dragoi, Andreea Letiţia Arsene, **Alina Crenguța Nicolae**, Ana Corina Ioniță. The effect of two prostamide F2α analogues treatment on ocular tissue pathology, The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, June 5-6, 2014, Oradea, abstract published in Romanian Journal of Biochemistry, 51 (Suppl.), Ed. Academiei Române, ISSN 1582-3318
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40. **Alina Crenguța Nicolae**, Niculina Mitrea, Andreea Letiția Arsene, R. Herzog, Cristina Manuela Drăgoi, Mihaela Ilie. Cell line studies regarding P-glycoprotein activity, Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, September 28-30 2011, Craiova, abstract published in the Romanian Journal of Biochemistry, 48 (Suppl.), Ed. Academiei Române, ISSN 1582-3318
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43. Andreea Letitia Arsene, Valentina Uivarosi, Niculina Mitrea, Cristina Manuela Dragoi, **Alina Nicolae.** *In vitro* studies regarding the binding of some ruthenium (III) complexes with some plasmatic proteins, Romanian National Congress of Pharmacy, 14th edition, October 13-16, 2010, Târgu-Mureş, Romania, abstract published in Acta Medica Marisiensis, 56 (suppl.2), ISSN 2068-3324
44. Cristina Manuela Dragoi, Niculina Mitrea, Andreea Letitia Arsene, **Alina Nicolae**, Mihaela Ilie. Chemiluminescence determination of melatonin using acidic potassium permanganate system, Romanian National Congress of Pharmacy, 14th edition, October 13-16, 2010, Târgu-Mureş, Romania, abstract published in Acta Medica Marisiensis, 56 (suppl.2), ISSN 2068-3324

In journals/volumes without ISBN/ISSN

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2. **Alina-Crenguța Nicolae**, Cristina Manuela Drăgoi, Denisa Marilena Margină, Anca Ungurianu, Daniela Grădinaru, Ion-Bogdan Dumitrescu. The influence of pharmacologically active substances on neurotransmitters' levels within the central nervous system. Congressus Pharmaceuticus Hungaricus XVII and EUFEPS Annual Meeting, 23-25 May 2024, Debrecen, Hungary
3. Andreea Letitia Arsene, Niculina Mitrea, Cristina Manuela Drăgoi, **Alina Crenguța Nicolae**. Prionic diseases. Molecular mechanisms and future pharmacotherapeutical perspectives, 11th edition of Academician Nicolae Cajal Symposium of the Romanian Academy of Medical Sciences, Bucharest, March 17-19, 2016.
4. Andreea Letiţia Arsene, Cristina Manuela Drăgoi, **Alina Nicolae**, Niculina Mitrea, Mihaela Ilie. *In-vitro* studies of calf thymus DNA interactions with endogenous bio-indols, 13th International Congress of SRFTTC, June 11-14, 2012, Poiana Braşov.
5. **Alina Crenguța Nicolae**, Niculina Mitrea, Andreea Letiţia Arsene, Radu Herzog, Cristina Manuela Dragoi, Mihaela Ilie. *In vitro* studies regarding P-glycoprotein activity in human neuroblastoma cell line SH-SY5Y, Timmedica International Congress and Exhibition, June 16-18 2011, Timişoara.
6. Cristina Manuela Dragoi, Niculina Mitrea, Andreea Letitia Arsene, **Alina Nicolae**, Mihaela Ilie. *In vitro* experimental research regarding the binding properties of melatonin with deoxyribonucleic acid (DNA), Timmedica International Congress And Exhibition, June 16-18, 2011, Timişoara
7. Cristina Manuela Dragoi, Andreea Letitia Arsene, Niculina Mitrea, **Alina Nicolae**, Mihaela Ilie. Experimental in vitro study regarding the interactions of triptophan and serotonin with deoxyribonucleic acid (DNA), International Conference of Young Researchers -The 4th International IMBG Conference for Young Scientists, Kiev, Ukraine, September 14-17, 2011, organised by IMBG-Institute of Molecular Biology and Genetics, Ukraine

8. Arsene Andreea Letiţia, Uivarosi Valentina, Mitrea Niculina, Drăgoi Cristina Manuela**, Nicolae Alina**, Dumitrescu Ion-Bogdan. The binding properties of novel ruthenium(III)-fluoroquinolones complexes with some plasmatic proteins, International Conference of Young Researchers -The 4th International IMBG Conference for Young Scientists, Kiev, Ukraine, September 14-17, 2011, organised by IMBG- Institute of Molecular Biology and Genetics, Ukraine
9. **Alina Crenguța Nicolae**, Niculina Mitrea, Andreea Letiţia Arsene, Radu Herzog, Cristina Manuela Dragoi, Mihaela Ilie. P-glycoprotein activity in human neuroblastoma cell line SH-SY5Y after in vitro administration of cyclosporine, International Conference of Young Researchers - The 4th International IMBG Conference for Young Scientists, Kiev, Ukraine, September 14-17, 2011, organised by IMBG- Institute of Molecular Biology and Genetics, Ukraine
10. Arsene Andreea Letiţia, Uivarosi Valentina, Drăgoi Cristina Manuela, Mitrea Niculina, **Nicolae Alina.** *In vitro* studies regarding the interactions of some ruthenium(II) fluoroquinolones complexes and some plasmatic proteins, Bridges in Life Sciences 5th Annual Scientific Meeting, April 9-11 2010, Lviv, Ukraine
11. Andreea Letiţia Arsene, Cristina Manuela Drăgoi, **Alina Nicolae**, Niculina Mitrea. Experimental research regarding melatonin effect on lymphoblastic cells membrane potential and fluidity, 2nd PharmSciFair 2009, June12-15, Nice, France

ANEXA VI
RECOGNITION AND ACTIVITY IMPACT

Member in editorial teams:

1. Guest Editor **Pharmaceutics** MDPI MDPI Special Issue "Emerging Strategies in Drug Development and Clinical Care in the Era of Personalized and Precision Medicine" July 2022-January 2023, impact factor/2023 =4,9
2. Guest Editor **Pharmaceutics** MDPI MDPI Special Issue "Emerging Strategies in Drug Development and Clinical Care in the Era of Personalized and Precision Medicine, *2nd Edition*" March 2024 - September 2024, impact factor/2023 =4.9
3. Guest Editor **Nutrients** MDPI MDPI Special Issue "Intermittent Fasting: Health Impacts and Therapeutic Potential" July 2024- January 2025, impact factor/2023 =4.8
4. Guest Editor **Biomedicines** MDPI Special Issue " Innovative Approaches in Drug Design: The Pathway from Molecular Mechanisms to New Therapeutic Interventions" February 2024-November 2024, impact factor/2023 =3,9
5. Guest Editor **Current Issues in Molecular Biology** (ISSN 1467-3045) Special Issue "Molecular Biology in Drug Design and Precision Therapy" May 2024 - December 2024, impact factor/2023 = 2.8
6. Reviewer for numerous **MDI journals**
7. Reviewer for **Frontiers in Pharmacology**
8. **Editorial Managing Assistant** at the journal **FARMACIA,** ISI Thomson-indexed journal, impact factor/2022=1,6

Presentations invited within national and international scientific events:

1. Guest lecturer at the conference "When Immunotherapy Meets Precision Medicine in Oncology!", held online on September 24, 2021.
2. **Alina Crenguța Nicolae**, Modulation of drug resistance in the pharmacotherapy of chronic diseases, guest lecturer at the MedDex Conference Bucharest, July 28-29, 2016, Ramada Hotel Bucharest Parc, Bucharest
3. **Alina Crenguța Nicolae**, Piroptosis, cell death by inflammation, guest lecturer at the MedDEX National Multidisciplinary Conference "Multidisciplinary approach to chronic diseases" Bucharest, June 17-18, 2016
4. Andreea Letiția ARSENE, Cristina Manuela DRĂGOI, **Alina Crenguța NICOLAE**, Denisa UDEANU, New self-destructive cellular signaling mechanisms. Piroptosis, paper presented at the National Pharmacy Conference, November 2015, Bucharest
5. Andreea Letiția Arsene, Niculina Mitrea, **Alina Crenguța Nicolae**, Cristina Manuela Drăgoi, Biochemical mechanisms involved in the etiopathogeny of prionic disease, "First Romanian National Congress of Toxicology with international attendance", October 16-18, 2015, Bucharest

Member in the organizing committees of several international and national scientific events

1. Member in the Organizing Committee of the XVII National Congress of Pharmacy, September 26-29, 2018, Bucharest
2. Member in the Organizing Committee of the XVI National Congress of Pharmacy, September 28-October 1, 2016, Bucharest
3. Member o the Organizing Committee of the 2nd National Conference with international participation "The Future Today: Xenobiotics, Neurobehavioral Safety and Cognitive Sciences - Directions and Perspectives", on the topic: "The importance of a multidisciplinary approach in promoting patient safety" - May 18-20, 2017, Bucharest
4. Member in the Organizing Committee of the Conference "Clinical Pharmacy-New Frontiers", Bucharest, June 17-18, 2016

Invention patents / patent applications

Dinu M, Ancuceanu RV, Olaru OT, Hovaneț MV, Anghel AI, Negreș S, Șeremet OC, Zbârcea CE, Dinu-Pirvu CE, Arsene, Drăgoi C., Popescu CV, Dune A, Nițulescu GM, Băbeanu NE, Popa O, Livadariu O, Manea S, **Nicolae A.** Selective extract of Morus alba L. for topical use with utility in the treatment of atopic dermatitis. Patent application no. A / 00747 / 27.09.2017.

Data **Semnatura**

26.01.2026