

PERSONAL INFORMATION



Victor A. Voicu

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Gender M | Birth date 29.06.1939 | Nationality Romanian

Professional experience

Since 2018

Vicepresident of Romanian Academy Science 2018

Since June 2017

Elected foreign corresponding member French National Academy of Medicine
(*membre correspondant étranger de l'Académie nationale de médecine, France*)

Since 2014

General Secretary of Romanian Academy, 2018

Since 2014

President of Medical Science Section of Romanian Academy

Since 2014

President of Bucharest branch, Romanian Academy of Medical Sciences
Academy of Medical Sciences

2013

Coordinator of Drug Sciences Panel

Executive Unit for Financing of Higher Education, Research, Development and Innovation (EUFHERDI)

2008

Major General

National Defense Ministry

2006-present

Member of the Board of Directors and President of the Therapeutic Exemption Commission

National Antidrug Agency

2001-2013

Director

Army Center for Medico-Military Research, Bucharest

2002-2006

General Secretary

Romanian Academy

1998-2015

President of Toxicology and Toxicodependence Commission

Health Ministry

1997-2009

President of Scientific Council

Romanian National Medicine Agency

1992-present

Professor, Head of Department of Pharmacology, Toxicology and Clinical Psychopharmacology

Faculty of Medicine, University of Medicine and Pharmacy "Carol Davila" Bucharest

- 1992 **Invited Professor**
Center for Blood Research, affiliated to the Harvard University, Boston
- 1990-1995 **Head of Medical Directorate**
National Defense Ministry
- 1990-1992 **Professor, Head of Pharmacology Department**
Faculty of Medicine, Craiova
- 1990 **Brigadier General**
National Defense Ministry
- 1987-2001 **Commander**
Army Center for Medico-Military Research, Bucharest
- 1972-1991 **Associate Professor, then Professor, Head of Pharmacology Department**
Faculty of Medicine, Craiova
- 1968-1987 **Head of Pharmacology and Toxicology Laboratory**
Army Center for Medico-Military Research, Bucharest
- 1964-1968 **Researcher**
Center for Radiobiology and Molecular Biology, Bucharest
- 1963-1966 **Assistant Professor**
Department of Pharmacology, Faculty of Medicine, Faculty of Medicine,
University of Medicine and Pharmacy "Carol Davila" Bucharest
- 1961 **Preclinical internship**
Department of Pharmacology, Faculty of Medicine, Faculty of Medicine,
University of Medicine and Pharmacy "Carol Davila" Bucharest

EDUCATION AND TRAINING

- 2000 **MD, specialization Clinical Pharmacology, super-specialization Clinical Toxicology**
University of Medicine and Pharmacy "Carol Davila" Bucharest
- 1974 **MD, specialization Functional Exploration**
University of Medicine and Pharmacy "Carol Davila" Bucharest
- 1972 **Senior phisician**
University of Medicine and Pharmacy "Carol Davila" Bucharest
- 1967 **Specialist MD, specialization Functional Exploration**
University of Medicine and Pharmacy "Carol Davila" Bucharest
- 1957-1962 **MD**
Faculty of Medicine, University of Medicine and Pharmacy "Carol Davila"
Bucharest

PERSONAL COMPETENCE

- Mother languages** Romanian
- Other languages** English, French, Russian.
- Communication skills**
- Good communication skills earned by personal experience as coordinator of activities for researcher teams and as teaching personnel for higher education.
- Organizational / management skills**
- In 1972, together with a group of collaborator we elaborated the first antidote administered in clinical context in Romania, antidote for which a patent was granted.(OSIM 79914/1974)
 - Also in 1972, I have founded the Pharmacology Department of the Faculty of Medicine of Craiova, organizing the first course in pharmacology and the correlated practical works.
 - A considerable part of the research activity has been focused on the experimental and clinical pharmacology of antihypertensive and antiarrhythmic drugs, area in which I have obtained a series of patents.
 - After February 1987, being appointed Commander of the Army Center for Medico-Military Research, which I have been led for 26 years, I managed to ensure an adequate atmosphere for scientific research and development, although the number of researcher decreased considerably.
 - An actual school has been created, addressing fields of major importance for the medical protection of military troops and civilians, in case of atypical aggressions; researchers and PhD in medical sciences have been trained and, based on their value and professional prestige, they were promoted consecutively as teaching personnel, up to the professor position. Some of them have been elected heads of research institutes or medical or pharmaceutical faculties.
 - In 1992, I have founded the first Department of Pharmacology and Clinical Toxicology in the Romanian medical education, in the University of Medicine and Pharmacy "Carol Davila" Bucharest, located in the Floreasca Clinical Emergency Hospital. In this new context, together with my group, we developed the clinical research in toxicology, an extension and an improvement of the research laboratory, elaborating a series of protocols for diagnostic and treatment, experimenting several modern methods such as plasmapheresis in acute exogenous intoxications. In 2005, at the same department, I founded a new discipline, Psychopharmacology, with activities in graduate and post-graduate education, the first of its kind in Romania.
 - My group reported one of the first indirect proofs of blood-brain barrier penetration for oximes (hypothermia antagonizing effect, 1976).
 - I also mention my involvement as Head of the Medical Directorate of the Ministry of Defense, in organizing and relocation of the theater of operations in the Persian Gulf of the first Military Field Hospital and in

Somalia.

- During the last 15 years, together with a complex group, I developed the principles of clinical experiments in pharmacology according to good clinical practice, conducting bioequivalence and clinical studies.
- After 1998, as President of the Toxicology and Toxicodependence Commission of the Health Ministry, I had an essential role in training of healthcare professionals for treatment of drug dependence.
- In 1998, I have been elected President of the Scientific Council of the Romanian Medicine Agency; together with the other members of the council, we had a determinant role in the elaboration of drug regulations in Romania, including the implementation of GMP rules.
- I have organized and chaired two joint meetings of FDA / FIP / EMEA in Romania focusing on bioavailability / in-vitro methodology.
- I have been director or responsible person for the partner in four projects type Partnerships - National Plan for Research Development and Innovation 2, won during open competitions organized by the National Center for Projects Management in 2007 and 2008.
- As a scientific expert, I have coordinated the research activities of postdoctoral fellows in the project entitled "Supporting the postdoctoral research reconstructive transplant surgery, (POSTDOC-TRANSPLANT)", ID: POSDRU/89/1.5/S/64153, beneficiary University of Medicine and Pharmacy "Carol Davila" Bucharest.
- Currently, I coordinate as project manager the scientific activity for two projects funded on EUFHERDI platforms (Project IDEI no. 25/2013 (PCE-2012-4-0651). The in-vitro screening of the biopharmaceutical limitations and of their pharmacokinetic / pharmacodynamic consequences for oximes. Period: 2013-2016; Project PN II, PCCA type 2, no. 139/2014. Research and formulation of a new class of synergic combinations, analgesic-anti-inflammatories with improved bioavailability, efficacy and safety profiles. Period: 2014-2016)
- I'm a scientific expert for the activities of postdoctoral fellows in the project "Romanian culture and European cultural models: research, synchronizing, durability", ID: POSDRU/159/1.5/S/136077, beneficiary the Romanian Academy, implementation end-date: October 2015.

SUPPLEMENTARY INFORMATION

Publications

Representative books

- 19 books at Romanian publishing houses and 7 at International publishers.
- Coordinators: Victor Voicu, Irinel popescu
„Covid-19 Pandemic in Romania. Pathogenic, clinical and Pharmacotherapeutic aspects. Romanian Academy Publishing House, Bucharest, 2021
- Coordinators: Victor Voicu, Costin Cernescu, Irinel Popescu
„Covid-19 Pandemic in Romania. Clinical and epidemiological Aspects”. Romanian Academy Publishing House, Bucharest, 2020

- Maria Dorobanțu, Giusepe Mancia, Guido Grassi, Victor Voicu editors, Hypertension and Heart failure, Springer Nature, Switzerland, 2019
- Octavian Vasiliu, Victor A. Voicu, Daniel Vasile, Quality of life in old age depression, Good practice guidelines, Lambert Academic Publishing, 2018.
- Octavian Vasiliu, Victor A. Voicu, Daniel Vasile, Étude de la qualité de vie dans la dépression gériatrique, Guide de bonnes pratiques, Edition Universitaire Européennes, 2018.
- Octavian Vasiliu, Victor A. Voicu, Daniel Vasile, Tratamiento farmacológico y calidad de vida en la depresión geriátrica, Guia de buenas prácticas, Editorial Academica Española, 2018.
- Octavian Vasiliu, Victor A. Voicu, Daniel Vasile, Psicofarmacologia e qualità della nella depressione geriatrica, Guida di buona prassi, Edizioni Accademiche Italiane, 2018
- Ilenuța Luciana C. Dănescu, Radu Alexandru C. Macovei, Mihai I. Ioniță, Victor A. Voicu, Rabdomioliza toxică indusă de xenobiotice, Editura Universitară " Carol Davila", București, 2018
- Octavian Vasiliu, Victor A. Voicu, Daniel Vasile Impactul terapiei farmacologice asupra calității vieții în depresia geriatrică, Editura Academiei Române, București, 2017
 - Voicu VA, Olinescu R. Enzymatic Mechanisms in Pharmacodynamics Abacus Press, England, 1977.
- Sohns T, Voicu VA (editors). Current Capabilities and Future Perspectives for Protection, 1999. Book Series: NATO Advanced Science Institute Series, Sub-Series 1: Disarmament Technologies, Publisher: Springer, Dordrecht, Netherlands. ISBN: 0-7923-5802-3. Author or co-author of several chapters:
 - Intervention in a chemical, biological or nuclear disaster. A Romanian point of view, Voicu VA, 19-37.
 - Finite interactions theory - A biophysical approach to xenobiotic - Membrane interface interactions. Voicu VA, Mircioiu C, Moldoveanu S, 95-107.
 - A theoretical study of the interactions of acetylcholinesterase, irreversible inhibitors, and their antidotes, Moldoveanu SC, Voicu VA, Mircioiu C. et al., 109-125.
 - Testing the antidotal efficiency in the treatment of aflatoxin poisoning, Ordeanu V, Voicu VA, Postoarca A. et al., 243-249.
 - Powders, ointments and solutions as first aid, nonspecific antidotes for organophosphorous compounds at skin level, Mircioiu, C; Voicu, V; Ionescu, M., 293-302.
 - Studies concerning some effects of drugs, colloid vectors for drugs and decorporators on blood global physico-chemical parameters, Voicu VA, Mircioiu C, Jiquid M. et al., 311-330.
 - Direct methods in the evaluation of the internal contamination with radionuclides, Mocanu N; Voicu V, Mircioiu C. et al., 493-511.
- Kerek F, Voicu VA. Spherical Oligo-Silicic Acid SOSA Disclosed as Possible Endogenous Digitalis-Like Factor. Front Endocrinol (Lausanne). 2015 Jan 23;5:233. doi: 10.3389/fendo.2014.00233. eCollection 2014.

Review. In: The Natriuretic Hormones; editors: Harvey Craig Gonick, Vardaman M. Buckalew. Frontiers Research Topic Ebook. Frontiers Media SA, ISBN: 978-2-88919-709-5

Recent representative papers

- Victor A. Voicu, SARS-Cov-2, ACE₂, panendothelitis and viral Neuroinvasion. Systemic consequences
J. Hypert. Res., 2021, 7, 1, 4-12
- Victor A. Voicu
Antihypertensive medication in metabolic syndrome. J. Hypert. Res., 2020, 6, 3, 59-66
- Victor A. Voicu
The impact of SARS-Cov-2 infection on the renin-angiotensin-aldosterone system and its axes. Pathogenic consequences. J. Hypert. Res., 2020, 6, 3, 99-110
- Victor Voicu, Constantin Miricioiu et al., Effect of a new synergistic combination of low doses of acetylsalicylic acid, caffeine, acetaminophen, and chlorpheniramine in acute low back pain, Frontiers in Pharmacology, 2019, doi:10.3389/phar.2029.00607
- Constantin Miricioiu, Victor Voicu et al., Mathematical modeling of release kinetics from supramolecular drug delivery systems, Pharmaceutics, 2019, 11, 140, doi:10.3390/pharmaceutics 11030140.
- Iorgulescu E, Voicu VA, Sârbu C, Tache F, Stănculescu I, Medvedovici A. Holistic evaluation of gamma-irradiation effects on green teas: New linear Regression based approach applied to (+/-)ESI/MS and RPLC/UV data and comparison with PCA and CA chemometric methods. Radiation Physics and Chemistry. 2018; 149: 126-133
- Voicu VA, Miricioiu I, Sandulovici R, Miricioiu C, Plesa C, Velescu BS, Anuta V.
Chlorpheniramine Potentiates the Analgesic Effect in Migraine of Usual Caffeine, Acetaminophen, and Acetylsalicylic Acid Combination Front Pharmacol, 2017.
- Victor A. Voicu, Constantin Miricioiu, Valentina Anuta, Loredana Andreea Vonica, Ion Miricioiu.
Research concerning the development of a stable, fixed combination of aspirine, paracetamol, caffeine and an antiallergic component.. Farmacia, 2017, 65, 6, 923-928
- Iorgulescu E, Voicu VA, Sârbu C, Tache F, Albu F, Medvedovici A. Experimental variability and data pre-processing as factors affecting the discrimination power of some chemometric approaches (PCA, CA and a new algorithm based on linear regression) applied to (+/-)ESI/MS and RPLC/UV data: Application on green tea extracts. Talanta. 2016 Aug 1;155:133-44.
- Voicu VA, Medvedovici AV, Sakurada K, Ohta H, Rădulescu FȘ, Miron DS. The forgotten or underestimated relevance of biopharmaceutical-based assessments for the oral absorption studies of oxime reactivators. Expert Opin Drug Metab Toxicol. 2016 Jul;12(7):743-52.
- Kerek F, Voicu VA. Spherical Oligo-Silicic Acid SOSA Disclosed as Possible Endogenous Digitalis-Like Factor. Front Endocrinol (Lausanne).

2015 Jan 23;5:233.

- Voicu V, Rădulescu FȘ, Medvedovici A. Relationships between the antidotal efficacy and structure, PK/PD parameters and bio-relevant molecular descriptors of AChE reactivating oximes: inclusion and integration to biopharmaceutical classification systems. *Expert Opin Drug Metab Toxicol.* 2015;11(1):95-109.
- Voicu V, Sârbu C, Tache F, Micăle F, Rădulescu FS, Sakurada K, Ohta H. Andrei Medvedovici Lipophilicity indices derived from the liquid chromatographic behavior observed under bimodal retention conditions (reversed phase/hydrophilic interaction): Application to a representative set of pyridinium oximes. *Talanta* 2014 May;122:172-9.
- Miron DS, Rădulescu FS, Benfeldt E, Shah VP, Voicu VA. In vitro and in vivo evaluation of three metronidazole topical products. *Pharm Dev Technol.* 2014 Mar;19(2):194-9.
- Voicu V, Medvedovici A, Ranetti AE, Rădulescu FȘ. Drug-induced hypo- and hyperprolactinemia: mechanisms, clinical and therapeutic consequences. *Expert Opin Drug Metab Toxicol.* 2013 Aug;9(8):955-68.
- Voicu V, Albu F, Tache F, Musilek K, Kuca K, Medvedovici A. LC-MS/MS approaches for the assay of bis-quaternary pyridinium oximes used as AChE reactivators in biological matrices. *Bioanalysis.* 2013 Apr;5(7):793-809.
- Mircioiu C, Voicu VA, Ionescu M, Miron DS, Radulescu FS, Nicolescu AC. Evaluation of in vitro absorption, decontamination and desorption of organophosphorous compounds from skin and synthetic membranes. *Toxicol Lett.* 2013 May 23;219(2):99-106.
- Voicu V, Rădulescu FȘ, Medvedovici A. Toxicological considerations of acetylcholinesterase reactivators. *Expert Opin Drug Metab Toxicol.* 2013 Jan;9(1):31-50.
- Voicu VA, de Leon J, Medvedovici AV, Rădulescu FȘ, Miron DS. New insights on the consequences of biotransformation processes on the distribution and pharmacodynamic profiles of some neuropsychotropic drugs. *Eur Neuropsychopharmacol.* 2012 May;22(5):319-29.
Bajgar J, Hajek P, Kassa J, Slizova D, Krs O, Karasova JZ, Fusek J, Capek L, Voicu VA. Combined approach to demonstrate acetylcholinesterase activity changes in the rat brain following tabun intoxication and its treatment. *Toxicol Mech Methods.* 2012 Jan;22(1):60-6.
- Voicu V, Gheorghe MC, Sora ID, Sârbu C, Medvedovici A. Incurred sample reanalysis: different evaluation approaches on data obtained for spironolactone and its active metabolite canrenone. *Bioanalysis.* 2011 Jun;3(12):1343-56.
- Radulescu M, Voicu V, Medvedovici A, David V. Retention study of some cation-type compounds using bile acid sodium salts as ion pairing agents in liquid chromatography. *Biomed Chromatogr.* 2011 Aug;25(8):873-8.
- Popovici RF, Seftel EM, Mihai GD, Popovici E, Voicu VA. Controlled drug delivery system based on ordered mesoporous silica matrices of captopril as angiotensin-converting enzyme inhibitor drug. *J Pharm Sci.* 2011 Feb;100(2):704-14.

- Voicu VA, Bajgar J, Medvedovici A, Radulescu FS, Miron DS. Pharmacokinetics and pharmacodynamics of some oximes and associated therapeutic consequences: a critical review. *J Appl Toxicol.* 2010 Nov;30(8):719-29.
- Voicu V, Sora I, Sârbu C, David V, Medvedovici A. Hydrophobicity/hydrophilicity descriptors obtained from extrapolated chromatographic retention data as modeling tools for biological distribution: application to some oxime-type acetylcholinesterase reactivators. *J Pharm Biomed Anal.* 2010 Aug 1;52(4):508-16.
- Voicu VA, Thiermann H, Rădulescu FS, Mircioiu C, Miron DS. The toxicokinetics and toxicodynamics of organophosphonates versus the pharmacokinetics and pharmacodynamics of oxime antidotes: biological consequences. *Basic Clin Pharmacol Toxicol.* 2010 Feb;106(2):73-85.
- Schuller E, Jilma B, Voicu V, Golor G, Kollaritsch H, Kaltenböck A, Klade C, Tauber E. Long-term immunogenicity of the new Vero cell-derived, inactivated Japanese encephalitis virus vaccine IC51 Six and 12 month results of a multicenter follow-up phase 3 study. *Vaccine.* 2008 Aug 12;26(34):4382-6.
- Mircioiu C, Mircioiu I, Voicu V, Miron D. Dissolution-bioequivalence non-correlations. *Basic Clin Pharmacol Toxicol.* 2005 Mar;96(3):262-4.
- Mircioiu C, Voicu V, Miron D, Mircioiu I. Non-standard correlations: in vitro in vivo correlations for immediate release products: comparison of different bioequivalence experiments. *Basic Clin Pharmacol Toxicol.* 2005 Mar;96(3):259-61.

Patents

- OSIM 3198/1970. Product with radioprotective activity. Bors A, Voicu VA, Păun C, Dumitrescu G.
- OSIM 79914/1974. Drug product for the control and treatment of toxic effects of organophosphorous compounds. Voicu VA, Miu C, Jiquidid M, Furnica C, Elian I.
- OSIM 81100/1975. Dixidextracaine 70, drug for subarachnoid hyperbaric anesthesia. Curelaru I, Furnica C, Voicu VA, Ionescu-Visan E, Miu C, Nițescu P, Ivanescu L, Manolache I.
- OSIM 65237/1977. Drug composition with antiseptic activity. Bors A, Voicu VA, Rizescu C.
- OSIM 65235/1977. Solution for hemodynamic repolarization and method for preparation of thereof.. Bors A, Voicu VA.
- OSIM 65236/1977. Antiarrhythmic drug product. Bors A, Voicu VA.
- OSIM 74803/1980. Device for reading drug-drug-interactions. Ionescu-Stoian A, Voicu VA, Jiquidid M.
- OSIM 69027/1978. Antiarrhythmic drug product and method for preparation of thereof. Bors A, Voicu VA, Aldea V, Olteanu E.
- OSIM 80051/1979. Antiseptic drug action. Bors A, Voicu VA, Karassi A.
- OSIM 76911/1980. Antihypertensive drug composition. Voicu VA, Mureșan S, Radu G, Jiquidid M.
- OSIM 76912/1980. Antihypertensive drug composition. Voicu VA, Mureșan S, Radu G, Jiquidid M.

- OSIM 87010/1985. Anticholinergic drug product. Voicu VA, Ionescu-Stoian A, Antoniu L, Jiquidid M.
- OSIM 87147/1985. Complex antidote for absorption, neutralizing and inactivation of ingested toxicants. Ionescu-Stoian A, Antoniu L, Voicu VA, Florea V.
- OSIM 99921/1989. Vegetal drug product with anti-inflammatory, analgesic, papillary-protective and method for preparation thereof. Mihaila V, Voicu VA.
- OSIM 102954/1991. Drug composition with analgesic, anti-inflammatory and decongestive activity. Voicu VA, Mircioiu C, Ionescu-Stoian A, Jiquidid M, Rolea E.
- OSIM 103550/1991. Collagen bandage for treatment of burns. Voicu VA, Trandafir V, Giurgiu T, Safta T, Burlacu D, Nica A, Dragoescu L.
- OSIM 106333/1996. Drug composition with analgesic, anti-inflammatory and decongestive activity. Voicu VA, Jiquidid M, Mircioiu C.
- OSIM 120815/2006. Utilization of amminophenone in toxicology. Țarălungă G, Voicu VA, Drăghici C.
- OSIM 120818/2006. Drug composition with analgesic, anti-inflammatory and decongestive activity. Voicu VA, Jiquidid M, Mircioiu C.
- WO2010062205-A2; WO2010062205-A3 (RO125302-A2). Use of erdosteine as antidote to intoxications, in heavy metals intoxication and in paracetamol intoxication (2010). Peretto M, Sarbulescu C, Voicu V. et al.
- WO2006112744-A2 (RO120818-B1; IN200701900-P3). Analgesic, anti-inflammatory and decongestion composition comprises an acetyl salicylic acid and e.g. caffeine based therapeutic (2006-2007). Voicu VA. Jiquidid M, Mircioiu C. et al.
- EP1945226-A2. Drug combination with analgesic, anti-inflammatory and decongestive activity. Voicu VA. Jiquidid M, Mircioiu C.

Prizes

- "Medaille d'or", Salon International des Inventions, Geneva, Switzerland (2001);
- 2 gold medals, Eureka, Brussels, Belgium (1992);
- The "Daniel Danielopolu" Prize of the Romanian Academy for the "Pharmacological mechanisms for membrane interfaces", 1994;
- The "Steaua României" (Romania's Star) National Order, Knight Degree, 2002;
- The "Steaua României" (Romania's Star) National Order, Officer Degree, 2014;

Membership

- Member of the Romanian Medical Science Academy, 1990;
- President of the Romanian Military Medicine and Pharmacy Society, 1990 - 1998;
- Member of the Working Group for the Accreditation of the Antitoxic Centres, EACCPT, 1998;
- Member of the Council of the "European Association for Clinical Pharmacology and Therapeutics" EACCPT, 1997;
- Member of the "Federation Internationale Pharmaceutique" - FIP, 1996;
- President of the Romanian Society of Therapeutics, Pharmacology and Clinical Toxicology, 1997 - present;

- Member of the "New -York Academy of Sciences", 1997;
- President of the Scientific Council of the National Drug Agency, 1998;
- EU Expert in the Group for Design and Prediction in Pharmacology Research, COST B15, 1999; PK/PD physiological based, COST B25 2005-2009;
- Member of European College of Neuropsychopharmacology, 2005;
- Member of American Chemical Society;
- Member of American College of Clinical Pharmacology;
- Doctor honoris causa of the Ovidius University, Constanta, 2005;
- Doctor honoris causa of the Vasile Goldis University, Arad, 2005.