


## PERSONAL INFORMATION

## Diana-Simona ANTAL



 „Victor Babeş” University of Medicine and Pharmacy Timișoara, 2 E. Murgu Square, 300041 Timișoara, Romania

 diana.antal@umft.ro

Gender F | Year of birth 1977

## WORK EXPERIENCE

2018 **Habilitation in the field of Pharmacy**  
 (OM 3829/4.06.2018)

2015-present **2015 - present – Professor at the Discipline of Pharmaceutical Botany at the “Victor Babeş” University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy**

2, E. Murgu Square, Timișoara, Romania

**Main activities and responsibilities**

- Lectures and laboratory practice for students of the study programs Pharmacy - Romanian and French, Pharmacy assistance, UMFVBT Master's programs, and (since 2021) doctoral students
- Coordination of Bachelor's and Dissertation theses
- Coordination of PhD theses (since 2020)
- Preparation of the Internal assessment report of the study program Pharmacy - French language, for the accreditation by the Romanian Agency for Quality Assurance in Higher Education (2017)
- Preparation of the Internal assessment report of the doctoral university studies, field of Pharmacy, for the accreditation by the Romanian Agency for Quality Assurance in Higher Education (2021)
- Research activities
- Member in the Commission of specialists that propose the subjects for the admission contest into the Faculty of Pharmacy
- Member in the Commission for the recognition of ECTS credits and transfers
- Member in various Commissions evaluating candidates for teaching positions (assistants, lecturers, professors - at the UMFVBT and other Romanian universities)
- Coordination of the activities of the Discipline of Botanical Pharmacy

2008-2015 **Lecturer at the Discipline of Pharmaceutical Botany**

2007- 2008 **Researcher at the Institute for Pharmacy/Pharmacognosy in Innsbruck (Austria)** within the framework of - FWF Grant P18379: Inhibitors of acetylcholinesterase from plants  
 Institut für Pharmazie/Pharmakognosie, Leopold-Franzens Universität Innsbruck, Innrain 52, 6020 Innsbruck, Austria

**Main activities and responsibilities**

Phytochemical analysis of plant extracts with acetylcholinesterase inhibitory activity; isolation of active compounds, their chemical structure using spectroscopic methods (RMN 1D and 2D, LC-MS), *in vitro* testing

2006-2007 **Lecturer at the Discipline of Pharmaceutical Botany**  
 “Victor Babeş” University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy

**Main activities and responsibilities**

- teaching activities: Lectures and laboratory practice (Romanian and French languages)
- Coordination of Bachelor theses

2004-2006 **University Assistant at the Discipline of Pharmaceutical Botany**  
 “Victor Babeş” University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy

**Main activities and responsibilities**

- Teaching laboratory practice (Romanian and French languages)

2001–2004 **Associate instructor at the Discipline of Pharmaceutical Botany**  
 “Victor Babeş” University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy

**Main activities and responsibilities**

- Teaching laboratory practice (Romanian and French languages)

2000-2001 **Pharmacy Intern at the Timisoara County Hospital 1 - “Bega” Pharmacy**  
 „Bega” Pharmacy, 12 Dr. Victor Babeş Street, Timișoara, Romania

**Main activities and responsibilities**

- Preparation of pharmaceuticals for hospitalized patients according to medical prescriptions

## EDUCATION AND TRAINING

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2013-2015 **Psycho-pedagogical studies (Levels I and II)**

West University of Timisoara

**Main subjects covered or skills acquired**

- Teaching methods

2014-2015 **Master’s Degree in “Formulation and Evaluation of the Dermato-Cosmetic Product”**

“Victor Babeş” University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy, 2 E. Murgu Square, Timișoara, Romania

**Main subjects covered or skills acquired**

- Ingredients and formulation of dermato-cosmetic products; skin pathophysiology

2012-2013 **Diplôme universitaire de Nutrition, Diététique et Santé**

Faculté de Pharmacie de Marseille, Université de la Méditerranée Aix-Marseille II, Marseille, France

**Main subjects covered or skills acquired**

- Nutritional therapy of various pathologies, Pediatric nutrition, Micronutrition

2002-2005 **PhD Studies - Doctor in Pharmacy**

University of Medicine and Pharmacy Târgu Mureș, Romania

**Main subjects covered or skills acquired**

- Analysis of mineral elements content of medicinal plants
- Mapping of main medicinal plants growing in Western Romania (Aninei Mountains)

2002-2004 **Internship in General Pharmacy – degree as a Pharmacy Specialist**

“Victor Babeş” University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy, 2 E. Murgu Square, Timișoara, Romania

**Main subjects covered or skills acquired**

- Pharmacology, Pharmaceutical Technology, Medical Informatics

2001 and 2003 **Trainings in Molecular Biology and Pathology. Biotechnologies**

“Al. I. Cuza” University Iași, under the patronage of the Romanian Academy and the Academy of Sciences Paris, the Ministry of National Education, Research and Technology France and the Embassy of France in Romania (Trainings 25<sup>th</sup> June-7<sup>th</sup> July 2001 and 30<sup>th</sup> June-12<sup>th</sup> July 2003)

**Main subjects covered or skills acquired**

- Cellular and Molecular Biology, cellular mechanisms of diseases, biotechnology, PCR

1995-2000 **Bachelor's Studies in Pharmacy – Degree of Pharmacist**  
 “Victor Babeş” University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy, 2 E. Murgu Square, Timișoara, Romania

**Principal subjects covered or skills acquired**

- Acquisition of theoretical and practical knowledge of a pharmacist

1991-1995 **High School – Nikolaus Lenau High School Timisoara**

**Principal subjects covered or skills acquired**

- Chemistry – Biology (studies in German language)

PERSONAL SKILLS

Spoken languages German (Deutsches Sprachdiplom), French (DALF C2), English

Organisational / managerial skills Head of the Department of Pharmaceutical Botany - coordination of Bachelor theses, lectures for students, preparation of research themes, planning and management of research projects

Digital competence Good command of Windows, Word, Excel, Photoshop, MestRec

Driving licence B category

ADDITIONAL INFORMATION

Projects **Project Leader**

- **“Nanostructures with aurones, chalcones and standardized plant extracts: development of a new prototype compound with chemopreventive and anti-inflammatory activity”**, Romanian – French international bilateral project, in collaboration with the Pharmacognosy Laboratory of the Faculty of Pharmacy of the University of Marseille, contract RO-FR 789/30.06.2014

**Member in research projects**

- **Acetylcholinesterase inhibitors from plants**, FWF grant 18379, Leopold-Franzens University Innsbruck, Austria
- **Bridge Project No. 810059, FFG Austria**, Leopold-Franzens University Innsbruck, Austria
- **Systematic investigations of the Lactuceae**, FWF grant 15594, Leopold-Franzens University Innsbruck, Austria
- **The elaboration of some bioproducts with triterpenic compounds and cyclodextrins and efficacy/noxious analysis in their skin pathology applications**, CNCSIS AT 173/2007
- **Study of synergistic bioactivity of antioxidant functional foods in reversibility of metabolic syndrome**, CEEX 10 / 7.10.2005
- **Impact of functional foods enriched with bioactive antioxidant components on quality of life in breast cancer**  
CNCSIS 27690/14.03.2005
- **Training of European Phytotherapists for Discovery of New Medications**  
RO/2004/PL 93056/TD

Educational and training projects ➤ **Erasmus internship for Staff involved in Higher Education**  
 Faculté de Pharmacie de Marseille, Université de la Méditerranée Aix-Marseille II, Marseille, Franța

## Honours and awards

- **Collaboration Program of the Romanian Academy and the Hungarian Academy of Sciences, Bulgarian Academy and the Serbian Academy**  
Research theme: Chemotaxonomy of *Lamiaceae* and *Ranunculaceae* family
- **Visiting lecturer**  
Faculté de Pharmacie de Marseille, Université de la Méditerranée Aix-Marseille II, Marseille, France
- **Diploma of Excellence** for the scientific and technologic research in the framework of bilateral cooperation between Romania and France, Programme „Brancusi – Hubert Curien”
- **Bologna Professor**  
Award given by the National Alliance of Student Organizations in Romania, as recognition for the teaching performance (10.05.2017)
- **Reviewer** for: Molecules, Evidence Based Complementary and Alternative Medicine, Pharmacological Research, International Journal of Molecular Sciences, Environmental Pollution, Recent Patents on Drug Delivery and Formulation, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, Scientific Reports etc.

ANNEXES

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## Main publications

### Habilitation THESIS

*Contributions to the scientifically validated valorisation of plants employed in traditional phytotherapy*, defended on May 3<sup>rd</sup>, 2018, University of Medicine and Pharmacy of Tîrgu Mureş (Order of the Minister of National Research nr. 3829/04.06.2018).

### PhD THESIS

*Research regarding the content of mineral elements in medicinal plants from the Aninei Mountains*, defended on June 16<sup>th</sup>, 2005, University of Medicine and Pharmacy of Tîrgu Mureş. PhD degree awarded by Order of the Minister of Education and Research nr. 4802/15.08.2005.

### BOOKS

1. **Antal DS**, Ardelean F. Teste de Botanica pentru concursul de admitere la Facultatea de Farmacie, Editura Victor Babes, Timisoara, ISBN 978-606-786-159-4, 2020
2. **Antal DS**, Ardelean F. Angiosperme medicinale : actualităţi farmacobotanice, Editura Victor Babes, Timisoara, ISBN 978-606-786-103-7, 2018
3. **Antal DS**, Palici I, Ardelean F. Teste de Biologie pentru admiterea la Facultatea de Farmacie, Editura Victor Babes, Timişoara, ISBN 978-606-786-038-2, 225 pg., 2017.
4. **Antal DS**, Ollivier E. (editors) Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity. Abstracts of the second international workshop of the Romanian-French bilateral project PN II-CT- 789/30.06.2014", Editura Victor Babes, Timisoara, ISBN 978-606-786-024-5, 2016, 51 pg.
5. **Antal DS**, Ollivier E. (editors) Natural products as a source of compounds with chemopreventive and anti-inflammatory activity. Abstracts of the international workshop of the Romanian-French bilateral project PN II-CT- 789/30.06.2014", Editura Victor Babes, ISBN 978-606-8456-67-6, Timisoara, 2015, 53 pg.
6. **Antal DS.**, Dobrea C.M. Curs de Botanică farmaceutică. Citologie, histologie, morfologie și anatomie vegetală. Editura Mirton, Timişoara, ISBN 978-973-52-1102-8, 282 pg., 2011.
7. **Antal DS**. Specii vegetale și fitocompuși de interes dermato-cosmetic, Ed. Mirton, Timisoara, ISBN 978-973-52-0673-4, 266 pg., 2009.
8. **Antal DS.**, Practicum de Biologie vegetală farmaceutică, Ed. Mirton, Timisoara, ISBN 978-973-52-0607-9, 434 pg., 2009.
9. **Antal D S.**, Biologie vegetală pentru studenții Facultății de Farmacie, Ed. Mirton, Timisoara, ISBN 978-973-52-0148-7, 341 pg., 2007.
10. Coste I, **Antal DS.**, Botanique pharmaceutique, Ed. Orizonturi Universitare, Timisoara, ISBN 973-638-182-X, 286 pg., 2005.

### BOOK CHAPTERS

1. **Antal DS**, Ardelean F. Challenges in the nanoscale delivery systems development in the pharmaceutical and nutraceutical markets, In: Oliveira MR (editor) „Mitochondrial Dysfunction and Nanotherapeutics”, Academic Press-Elsevier, London, ISBN: 978-0-323-85666-9, eBook ISBN: 978-0-323-88618-5, published July 15, 2021, pp. 441-458
2. Buda V, Andor M, **Antal D**, Ardelean F, Pavel IZ, Dehelean C, Soica C, Folescu R, Andrei F, Danciu C. Cardioprotective Effects of Cultivated Black Chokeberries (*Aronia* spp.): Traditional Uses, Phytochemistry and Therapeutic Effects. In: Sharma K, Mishra K, Senapati KK, Danciu C. (eds) „Bioactive Compounds in Nutraceutical and Functional Food for Good Human Health”, InTech, published April 28, 2020, London, UK, DOI: 10.5772/intechopen.92238
3. Danciu Corina, **Antal Diana**, Avram Stefana, Buda Valentina, Pavel Ioana Zinuca, Minda Daliana, Ardelean Florina, Nicolov Mirela, Dehelean Cristina. Essential mineral elements: macronutrients and micronutrients from herbs in human health. In: Iman Ryan (editor) “Phytochemicals. Plant sources and Potential Health benefits”. Nova Science Publishers New York, 2019, ISBN 978-1-53615-479-5, pp. 1-52
4. Danciu C, Soica C, **Antal D**, Popescu A, Ghiulai R, Pavel IZ, Avram S, Minda D, Dehelean C. An Update On Natural Compounds and Their Modern Formulations for the Management of Malignant Melanoma. In: Badria FA (editor) „Natural Products and Cancer Drug Discovery”, InTech, ISBN 978-953-51-3314-8, Print ISBN 978-953-51-3313-1, published July 5, 2017, DOI: 10.5772/67647
5. Soica C, **Antal D**, Andrica F, Babuta R, Moaca A, Ardelean F, Ghiulai R, Avram S, Danciu C, Coricovac D, Dehelean C., Paunescu V. Lupan-skeleton pentacyclic triterpenes with activity against skin cancer: preclinical trials evolution. In: Latosinska JN (editor) Unique Aspects of Anti-cancer Drug Development, InTech, ISBN 978-953-51-3348-3, Print ISBN 978-953-51-3347-6, published July 12, 2017, DOI: 10.5772/intechopen.68908
6. Danciu C, **Antal DS**, Ardelean F, Chiş AR, Şoica C, Andrica F, Dehelean C. New Insights Regarding the Potential Health Benefits of Isoflavones. In: Justino GC (editor) „Flavonoids – From Biosynthesis to Human Health”, InTech, ISBN 978-953-51-3424-4, Print ISBN 978-953-51-3423-7, published August 23, 2017, DOI: 10.5772/67896

### Selection of 10 representative articles

1. **Antal DS**, Ardelean F, Jijie R, Pinzaru I, Soica C, Dehelean C. Integrating Ethnobotany, Phytochemistry, and Pharmacology of *Cotinus coggygria* and *Toxicodendron vernicifluum*: What Predictions can be Made for the European Smoketree? *Frontiers in Pharmacology*. 2021;12:746. IF (2020): 5.811
2. **Antal DS**, Ardelean F, Avram S, Pavel IZ, Danciu C, Soica C, Dehelean C. Flavonolignans: One Step Further in the Broad-Spectrum Approach of Cancer. *Anti-Cancer Agents in Medicinal Chemistry* 2020;20(15):1817-30, IF (2020): 2.505
3. Ghiulai R, Roșca OJ, **Antal DS\*** (**corresponding author**), Mioc M, Mioc A, Racoviceanu R, Macașoi I, Olariu T, Dehelean C, Crețu OM, Voicu M. Tetracyclic and Pentacyclic Triterpenes with High Therapeutic Efficiency in Wound Healing Approaches. *Molecules*. 2020;25(23):5557. IF(2020)=4.411
4. Lombrea A, **Antal D**, Ardelean F, Avram S, Pavel IZ, Vlaia L, Mut AM, Diaconeasa Z, Dehelean CA, Soica C, Danciu C. A Recent Insight Regarding the Phytochemistry and Bioactivity of *Origanum vulgare* L. Essential Oil. *Int J Mol Sci*. 2020;21(24):9653. IF (2020): 5.923
5. Moacă EA, Farcaș C, Ghițu A, Coricovac D, Popovici R, Cărăba-Meiță NL, Ardelean F, **Antal DS**, Dehelean C, Avram Ș. A Comparative Study of *Melissa officinalis* Leaves and Stems Ethanollic Extracts in terms of Antioxidant, Cytotoxic, and Antiproliferative Potential. *Evidence-Based Complementary and Alternative Medicine*, 2018, 2018:7860456. DOI: 10.1155/2018/7860456; IF (2018) = 1.984
6. **Antal DS**, Ardelean F, Chis AR, Ollivier E, Serban MC. Nanoscale Delivery Systems: Actual and Potential Applications in the Natural Products Industry. *Current Pharmaceutical Design* 2017; 23(17):2414-2421, IF (2017) = 2.757,
7. Ursoniu S, Sahebkar A, Serban MC, **Antal D**, Mikhailidis DP, Cicero A, Athyros V, Rizzo M, Rysz J, Banach M. Lipid-modifying effects of krill oil in humans: systematic review and meta-analysis of randomized controlled trials. *Nutrition Reviews* 2017; 75(5): 361-363, DOI: 10.1093/nutrit/nuw063, IF(2017) =5.788
8. **Antal DS**, Ardelean F, Pinzaru I, Borcan F, Ledeti I, Coricovac D, Zupko I, Baghdikian B, Ollivier E, Soica C, Bolintineanu SL. Effects of cyclodextrin complexation on the anti-cancer effects of *Cotinus coggygria* extract and its constituents, butein and sulfuretin. *Revista de Chimie* 2016, 67 (8): 1618-1622. IF (2016) = 1.232.
9. **Antal DS**, Citu Cosmin, Ardelean Florina, Dehelean Cristina, Vlaia Lavinia, Soica Codruta, Vlaia Vicentiu, Biris Marius, Sas Ioan. Metallome of *Origanum vulgare*: the unknown side of a medicinal and aromatic plant used worldwide. *Farmacia* 2015; 63(4): 534-538 IF (2015)=1.162.
10. **Antal DS**, Schwaiger S, Ellmerer-Müller EP, Stuppner H. *Cotinus coggygria* wood: Novel flavanone dimer and development of an HPLC/UV/MS method for the simultaneous determination of fourteen phenolic constituents. *Planta Medica* 2010; 76(15): 1765-1772. IF (2010) = 2.369

Timisoara, 2022