

Anexa nr. 1 – Cerere de premiere*

1. Candidat

Nume: Bolboacă

Nume anterioare (dacă este cazul): -

Prenume: Sorana Daniela

Doctor din anul (se prezintă copie a diplomei de doctor sau echivalent): 2006

Poziția ocupată: profesor universitare

Instituția: Universitatea de Medicină și Farmacie Iuliu Hațieganu Cluj-Napoca

Telefon mobil:

Adresa de e-mail:

2. Ediția “Gala Cercetării Românești”: 2024

3. Premiul și categoria pentru care aplică (individual sau echipă de cercetare): Medicină – Premiul “Ana Aslan”

4. Lider de echipă, dacă este cazul: -

5. Componența echipei de cercetare, dacă este cazul (numele membrilor echipei, poziția ocupată, anul ultimei diplome acordate):

6. O descriere a celor mai importante realizări științifice din ultimii 5 ani (max. 4 pag., format A4, caractere Times New Roman, 12 puncte, spațiere între linii de 1,5 și margini de 2 cm).**

7. Curriculum Vitae narativ al candidatului “individual” sau al fiecărui membru al echipei de cercetare, în cazul candidatului “echipă de cercetare”, din care să reiasă rezultatele activității de cercetare din ultimii 5 ani, conform indicatorilor cantitativi din Anexa nr. 2 la regulament și criteriilor de evaluare calitativă prevăzute în Anexa nr. 3 la regulament.

8. Lista publicațiilor candidatului “individual” sau a fiecărui membru al echipei de cercetare, în cazul candidatului “echipă de cercetare”, cu evidențierea publicațiilor relevante ale candidatului în ultimii 5 ani și a publicațiilor comune ale membrilor unei echipe de cercetare în cazul candidatului “echipă de cercetare”. Se menționează și un link al paginii web unde se regăsesc publicațiile candidatului.

9. Lista proiectelor de cercetare câștigate de candidat și valoarea acestora.

10. Lista brevetelor depuse și a celor acceptate, dacă este cazul.

* Se redactează în limba engleză. Prin excepție, redactarea cererii de premiere se face în limba română pentru cererile din domenii cu specific românesc: limba și literatura română și dreptul românesc.

** Rezultatele activității de cercetare sunt evaluate conform Anexei nr. 3 la Regulamentul de organizare și funcționare a programului Gala Cercetării Românești.

Sorana D. Bolboacă**Narrative Curriculum Vitae**

I am a full professor at Iuliu Hațieganu University of Medicine and Pharmacy Cluj-Napoca, Faculty of Medicine, Department 11 – Medical Education, Discipline Medical Informatics and Biostatistics (since October 2001, professor since February 2017). I have a bachelor's degree in Medicine (1998, Diploma: [Series R, No. 0016863](#)), a master's degree in Medical Informatics and Biostatistics (2001, [Series B, No. 0000536](#)), and a Ph Degree in Medicine (2006, [Diploma Series D, No. 0005211](#)). I am also a Radiology-Medical Imaging (2005, [Series S, No. 0000240](#)) with competency in general ultrasonography (2005: [Series C, No. 016634](#)). I defended my habilitation thesis in [2012](#), and I received the doctorate advisor degree in 2013 ([3570 MD/18.04.2013](#)) and I am an active member of the Iuliu Hațieganu University of Medicine and Pharmacy [Doctoral School](#). I have a training in *Medical Research Ethics* at the Icahn School of Medicine at Mount Sinai (2013-2015, New York, USA).

(C1) (for details please see the file named *Publications-SDB.pdf*)

Most of the articles published in journals indexed in WoS are original articles (177/220), followed by proceeding papers (24), meeting abstract (12). Reviews (8) and book chapters (3). Most frequently I was listed as the corresponding author (42%) or last author (38%), and as first author on 13%. Overall, the WoS citation percentile of 36th, with WoS H-index of 24.

I have 7 articles published in journals classified as Q1 according to AIS (JCR 2022) and 58 articles in journals classified as Q2 according to AIS (JCR 2022). Thirty-five of them are published from 2019 to 2023. The full references to these articles are available in the *Publications-SDB.pdf* file.

The weighted AIS (the AIS associated with each article is available in the *Publications-SDB.pdf* file):

- Articles published in journals classified as Q1/Q2 according to AIS (JCR 2022): $3.232/10 + 6.158/3 + 1.281/7 + 1.851/6 + 1.596/7 + 1.042/5 + 1.286/2 + 0.668/3 + 0.96/6 + 0.668/8 + 0.825/8 + 0.945/8 + 0.802/10 + 0.668/3 + 1.028/10 + 0.668/8 + 0.668/10 + 0.908/10 + 0.936/6 + 0.897/10 + 1.028/12 + 0.945/6 + 0.802/10 + 0.944/8 + 0.668/3 + 0.668/5 + 0.668/6 + 0.885/6 + 0.945/14 + 0.944/9 + 0.944/9 + 0.945/6 + 0.908/11 + 0.668/7 + 0.914/3 + 0.668/12 + 0.735/3 + 0.945/9 + 0.944/4 + 1.202/7 + 1.01/7 + 1.129/8 + 1.01/7 + 0.79/6 + 0.643/4 + 0.666/5 + 0.968/7 + 1.192/4 + 1.192/5 + 1.192/6 + 1.192/6 + 0.696/2 + 0.696/2 + 0.673/2 + 0.696/2 + 0.454/3 + 0.666/3 + 1.064/3 + 1.393/3 + 0.728/2 + 1.064/5 + 0.643/2 + 0.454/2 + 1.064/3 + 1.064/2 + 1.064/2 = 15.4$
- Articles published in the period 2019-2023 in journals classified as Q1/Q2 according to AIS (JCR 2022): $= 3.232/10 + 6.158/3 + 0.668/3 + 0.96/6 + 0.668/8 + 0.825/8 + 0.945/8 + 0.802/10 + 0.668/3 + 1.028/10 + 0.668/8 + 0.668/10 + 0.908/10 + 0.936/6 + 0.897/10 + 1.028/12 + 0.945/6 + 0.802/10 + 0.944/8 + 0.668/3 + 0.668/5 + 0.668/6 + 0.885/6 + 0.945/14 + 0.944/9 + 0.944/9 + 0.945/6 + 0.908/11 + 0.668/7 + 0.914/3 + 0.668/12 + 0.735/3 + 0.945/9 + 0.944/4 + 1.202/7 + 1.01/7 = 6.9$
- All articles (AIS according to JCR 2022): 24.4

(C2) (for details please see the file named *Publications-SDB.pdf*)

Citations (9 February 2024): [5094](#) Google Scholar & [1965](#) Web of Science.

My name is listed in the 2% percentile ([2021](#) & [2022](#) & [2023](#)) of the most important scientists in the world ([science-wide author databases of standardized citation indicators](#)) in the ranking made by Elsevier BV, Stanford University, in the category of research impact for a single year. Personal metrics in the latest

edition (2023), personal position is 165,852 out of 190,063 researchers in the top 2%, with 238 researchers from Romania (personal position 129).

The citation of personal articles in manuscripts indexed in WoS show the interdisciplinarity and multidisciplinary application of the research, with most citation of medicine and related disciplines but going over for close (biochemistry, chemistry etc.) or distant (environmental sciences, engineering, computer science etc.) disciplines (Figure 1), with most citations (1311 out of 1965) from 2019 to date.



Figure 1. WoS category of the citations.

The altmetrics of top articles published in the period 2019-2023 according to the number of citations are presented in Figure 2.

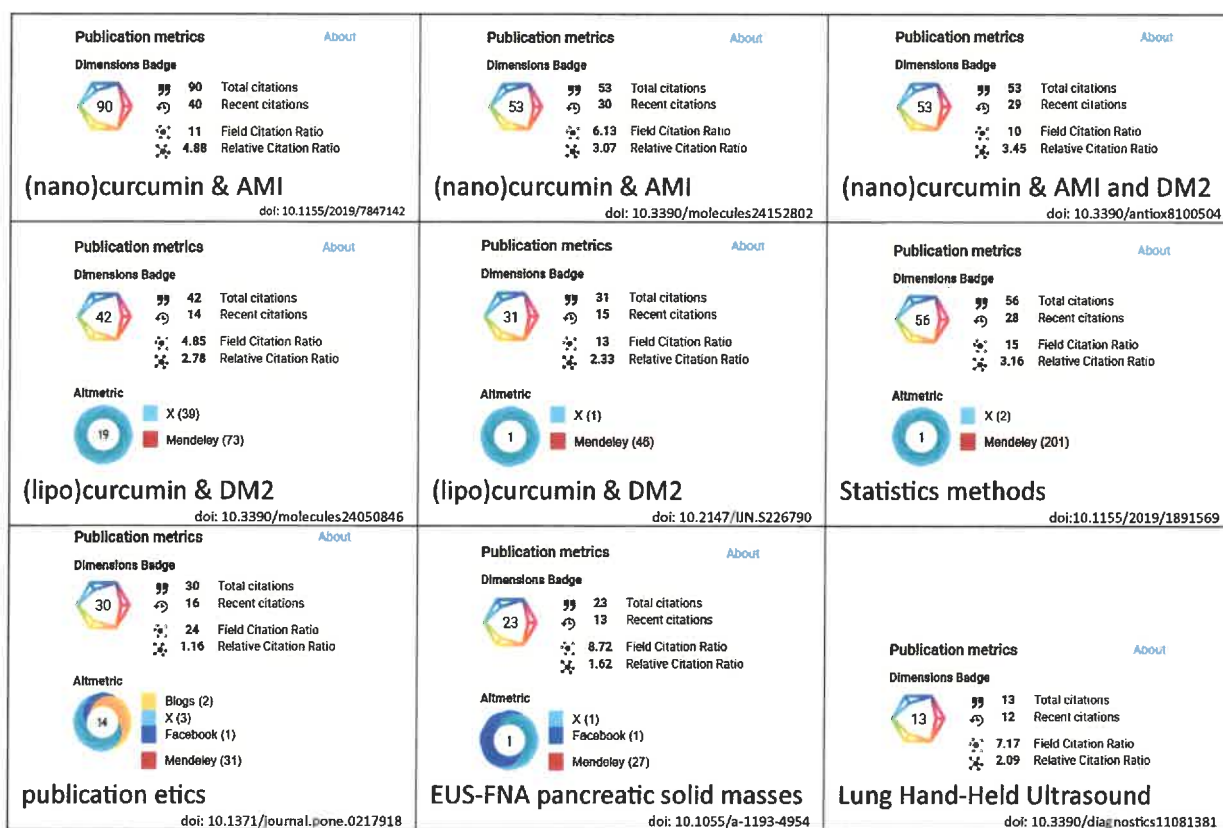


Figure 2. Publication metrics by example.

(C3) (for details please see the file named *Projects-SDB.pdf*)

I was director of two research grants obtained by competition: ID458/UEFISCSU , "IDEAS" 2007-2010 (841500 lei & Members in the research team: 5, 3 with PhD and 2 PhD students) & AT93/MECT/CNCSIS (170000 lei & Members in the research team: 5, 3 with PhD, 1 PhD student and 1 undergraduate student). I was actively involved in the following research grants: N1) ET/36/MEC/UEFISCSU (member), N2) ET/46/MEC/UEFISCSU (member), N 3) ET/108/MEC/UEFISCSU (member), N4) PC-DC/2199/MEC/UEFISCSU (member), N 5) PC-DC/3685/MEC/UEFISCSU (member), N 6) PC-DC/2662/MEC/UEFISCSU (member), N 7) AT93/MECT/CNCSIS (project manager), N 8) ID1051/UEFISCSU, "IDEAS" 2007-2010 (coinvestigator), N 9) ID458/UEFISCSU , "IDEAS" 2007-2010 (project manager), I1) Euratom, FP7-EURATOM-FISSION January 2008 - June 2011 (member), N10) PN II 42-102/2008, "Partnerships" 2008-2011 (member), N11) PN II D1499/1105/2009, "IDEAS" 2009-2012 (member), N12) POSCCE -FEDER: Stress & Burnout ASSIST 2012-2014 (member), N13) PN-III-P4-ID-PCE-2016-0393 (member), N14) PN-III-P4-ID-PCE-2016-0701 (member), I2) R25TW010518 (NIH, member), I3) REPROGRAM – H2020#667837 (member), I4) CA17117 2018-2023 (member), I5) CA18208 2019-2023 (Member in the management team), I6) CA21137 2022-2026 (member); N15) PROGRES - 40PFE/30.12.2021 (member). N stands for national and I stands for international.

(C4) Professional prestige, assessed by the degree of recognition of my scientific activity in the international academic community is supported by national and international visibility and recognition.

- National:
 - ✓ I am a member of the board of directors of [RoHealth – Cluster for Health and Bioeconomy](#) as a recognition towards translation of personal expertise in the direction of the healthcare economy.
 - ✓ I actively contributed in October – December 2020 to the [National Strategy for Research, Innovation and Intelligent Specializations 2021-2027](#).
 - ✓ I am the elected president of the [Romanian Society of Medical Informatics](#).
 - ✓ Active participant to Digital Health Strategy (2023).
 - ✓ [Cluster of Medical Informatics & Related Areas](#) – coordinator.
 - ✓ Member of the Body of Experts from the National Register of Experts for the Certification of Research and Development Activity (REXCD) – Domain 7. [Health – prevention, diagnosis and advanced treatment](#)
- International
 - ✓ I am a member in the [NatG committee](#) of the *International Society for Clinical Biostatistics* (since 2020).
 - ✓ International projects: **CA21137 2022-2026** (Director: Dr Sigurd Mørk Rønby Lauridsen - Title: [Ethics in Dementia \(EDEM\)](#) - [Member](#)) & **CA18208 2019-2023** (Director: Dr Polychronis Kostoulas - [Novel tools for test evaluation and disease prevalence estimation](#) - [Member in the management team](#)) & **CA17117 2018-2023** (Director: Prof Hans Lund (Action Chair) & Ms Klara Brunnhuber (Action Vice Chair) - [Towards an International Network for Evidence-based Research in Clinical Health Research \(EVBRES\)](#) - [Member in WG2](#)) & **R25TW010518 2018-2023** (Director: Prof. Dr. Rosamond Rhodes - Title: [Establishing a Master Program in Research Ethics and Methodology in Cluj-Napoca, Romania](#) - No.: R25TW010518 - [Member](#)) & **Grant agreement no. 667837 2016-2019** (Director: Prof. Dr. Adrian Iancu - Title: [REPROGRAM: Targeting epigenetic REPROgramming of innate immune cells in Atherosclerosis Management and other chronic inflammatory diseases](#) - No.: Grant agreement no. 667837 HORIZON 2020 European Research Program - Function: [Member](#)) & **Euratom, FP7-EURATOM-FISSION January 2008 - June 2011** (Director: Dr. Kerry CHANTREY - University of Manchester - Title: [Safety and efficacy of a new and emerging dental X-ray modality \(SEDENTEXT\)](#) - No.: 212246 - Function: Member - "Iuliu Hatieganu" University of Medicine and Pharmacy Cluj-Napoca partner)

- ✓ Editorial activity:
 - ① [Mathematics](#) (WoS ISI) - Sorana D. Bolboacă - *Editorial Board Member*;
 - ② [Combinatorial Chemistry & High Throughput Screening](#) (WoS ISI) - Sorana D. Bolboacă - *Editorial Board Members: Molecular Design and Informatics*;
 - ③ [Applied Medical Informatics](#) (IDB) - Sorana D. Bolboacă – *Executive Editor*;
 - ④ [Notulae Botanicae Horti Agrobotanici Cluj-Napoca](#) (WoS ISI) - Sorana D. Bolboacă - *Associate Editor*;
 - ⑤ [Notulae Scientia Biologicae](#): (IDB) - Sorana D. Bolboacă - *Editor-in-Chief*
 - ⑤ [PlosOne](#) (WoS ISI) – Sorana D. Bolboacă – *Editor*
- ✓ Reviewer – [Top reviewer](#) in *Clinical Medicine* (2018 & 2019) and *Cross-Field* (2019) & [770 verified reviews](#) (09 February 2024)
- Bursaries (9): 2013 – Fogarty Scholarship for participation at Research Ethics Education in the Balkans and Black Sea Region, University of Belgrade School of Medicine, Belgrade (July 1-12, 2013), Serbia (\$1500) & 2013 – ERASMUS Training Staff Mobility – Lifelong Learning Programme, Bulgarian Academy of Science, Biomathematics, Sofia (June 17-25, 2013), Bulgaria (€725) & 2011 – ERASMUS Training Staff Mobility – Lifelong Learning Programme, Applied Statistics, Slovenia, (€1125) & 2005 – Bursary of the American Medical Informatics Association for participation at the Annual Symposium on Biomedical and Health Informatics from Foundations to Applications to Policy, Washington D.C., USA, 2005, October 22-26; title of the presentation “Binomial Distribution Sample Confidence Interval Estimation for Positive and Negative Likelihood Ratio Medical Key Parameters” (\$1000) & 2004 – Bursary of the Radiological Society of North America for participation at “Introduction to Research for International Young Academics (YRIA) 2004” course, RSNA Scientific Assembly and Annual Meeting, November 28– December 2, 2004, Chicago, U.S.A. (\$1000) & 2004 – Bursary of the European Association of Radiology for the presentation of the following research studies: “Skeletal Maturity Assessment Web Application” (oral presentation) & “Daily Monitoring Patients with Renal Transplant: A Way to Better Understand the Relationship between Doppler Indices and Renal Function” (electronic poster) & “Lymph Nodes Ultrasonography in HIV Infected Children” (electronic poster) at the European Congress of Radiology, Vienna, Austria, March 4 – 9, 2004 (€1000) & 2002 – ERASMUS Bursary offered by the “Iuliu Hațieganu” University of Medicine and Pharmacy Cluj-Napoca – participation at Health Informatics Research Training, University of Central Lancashire, Preston, England. Prof. Alan Gillies, June-September 2002 & 1999 – SOROS Foundation Bursary for participation at an English language course (advanced level) at ACCESS Language Centre, Cluj-Napoca, Romania (\$67). & 1998 – SOROS Foundation Bursary for participation at the 4th International Summer School STOP AIDS, Portoroz, Slovenia, July 3- 14, 1998.
- Awards scientific meetings (16): 2003: Zilelor Universității de Medicină și Farmacie Iuliu Hațieganu pentru membrii Departamentului de Informatică Medicală și Biostatistică; 2003, Cluj-Napoca & 2004: 16th European Congress of Radiology –*Skeletal maturity assessment web application*. Bolboacă SD. ECR 2004, March 5-9, 2004. & 2006: “Monica Mărășoiu” – Bolboacă S, Țigan Ș, Jäntschi L. Molecular Descriptors Family on Structure-Activity Relationships on anti-HIV-1 Potencies of HEPTA and TIBO Derivatives. European Federation for Medical Informatics Special Topic Conference, April 6-8, 2006, Timișoara, Romania. & 2006 - The 10th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2006), Orlando, Florida, USA, July 16-19, 2006: best paper presented in the “Education and Information Systems” section for “Computer Aided System for Student’s Knowledge Assessment”, authors Jäntschi L, Bolboacă SD. & 2008: Daniela-Florentina Dediulescu, Angelica R. Chiorean, Sorin Dudea, Raluca Roman, Maria Magdalena Duma, Sorana D. Bolboacă, 2008, The Role of 2D and Doppler Ultrasound in Breast Diagnosis: A Review based on a 3 Year Longitudinal Prospective Study, EUROSON 2008 - The XXth Congress of European Federation of Societies for Ultrasound in Medicine and Biology & The XIth Romanian Conference of Ultrasound in Medicine and Biology, May 31 - June 3, Timisoara, Romania, OP 2.14, Ultraschall in Med 2008;29:S22 & 2015: Ilies RF, Dăscălescu VC, Bolboacă SD. Eugeny: a problem in

the guise of the solution. Congresul National de Durere Editia a III-a, May 7-9, 2015 Cluj-Napoca, Romania. & 2016: Hasmasanu MG, Baizat M, Blaga L, Mathyas M, Bolboacă SD, Zaharie GC. Morfometrie cardiacă la nou-născutul cu restricție de creștere intrauterină. Annual Meeting of the Iuliu Hatieganu University of Medicine and Pharmacy Cluj-Napoca, November 21-25, 2016. Premiul II, Sesiunea postere, Discipline Medicale. & 2016: Ciocan RA, Bolboacă SD, Gherman CD, Ciocan A, Drugan C. Chitotriozidaza – un marker al ischemiei critice a membrelor inferioare. Studiu pilot. Annual Meeting of the Iuliu Hatieganu University of Medicine and Pharmacy Cluj-Napoca, November 21-25, 2016, Cluj-Napoca & 2016: Buhai D-V, Bolboacă SD. Regulatory T cells as biomarkers for the efficacy of subcutaneous or sublingual immunotherapy - A systematic review. Congressis (13th Edition - International CONgress for Medical Students and Young Doctors), April 21-24, 2016, Iasi. Premiul III, Fundamental Sciences. & 2016: Buhai D-V, Bolboacă SD. Regulatory T cells as biomarkers for the efficacy of subcutaneous or sublingual immunotherapy - A systematic review. Medicalis - 17th Edition, International Congress for Medical Students and Young health Professionals, May 12-14, 2016, Cluj-Napoca, Romania. First Special Prize. & 2017: Ciocan A, Gherman CD, Bolboacă SD. Evaluation of patients with lower extremity peripheral artery disease by walking tests: A pilor study. Medicalis, May 11-14, 2017, Cluj-Napoca, Romania, Oral presentation. Premiul III. & 2017: Berghe AS, Drugan TC, Bolboacă SD, Senilă SC, Rogoian L, Solomon CM. Clasificarea melanomului cutanat prin măsurători semi-cantitative elastografice în timp real. Annual Meeting of the Iuliu Hatieganu University of Medicine and Pharmacy Cluj-Napoca, December 4-8, 2017, Cluj-Napoca, Romania. Premiul II, Sesiunea Postere, Discipline Medicale. & 2018: Jianu C, Filipescu I, Topan A, Itu-Mureșan C, Bolboacă SD., Cause of death among people living with HIV Infection: Cluj-Napoca AIDS Center Experience. Annual Meeting of the Iuliu Hatieganu University of Medicine and Pharmacy (First prize – Medical Science), December 3-7, 2018, Cluj-Napoca, Romania. Medicine and Pharmacy Reports 2019;92(Suppl 1):S35-S36. & 2019: Buhai DV, Bolboacă SD. Exploring the Relation Between Facebook OR Instagram Addiction and Symptoms of Depression. Medicalis - (Third prize - Medical Science), May 9 - 12, 2019, Cluj-Napoca, Romania & 2019: Nechita VI, Bolboacă SD, Graur F, Mois E, Hajjar NA. Perioperative Neutrophil-to-Lymphocyte Ratio in Klatskin Tumors. Annual Meeting of the Iuliu Hatieganu University of Medicine and Pharmacy (Third prize – Discipline Chirurgicale), December 2-5, 2019, Cluj-Napoca, Romania. Medicine and Pharmacy Reports 2019;92(Suppl 1):S35-S36. & 2020: Haji Hassan M, Lenghel LM, Bolboacă SD. The visual stethoscope. Annual Meeting of the Iuliu Hatieganu University of Medicine and Pharmacy (Second prize – Discipline Medicale), December 10-11, 2021, Cluj-Napoca, Romania. Medicine and Pharmacy Reports 2020;93(Suppl 2):S9-S10. &

- Iuliu Hațieganu University of Medicine and Pharmacy awards – Faculty of Medicine: “Victor Papilian” award 2021 & 2023
- Research results award – UEFISCDI (65): Bolboacă SD, Jäntschi L. A Structural Informatics Study on Collagen, Chemical Biology & Drug Design 2008;71(2):173-179. -Cod CNCIS - [310](#) & Jäntschi L, Bolboacă SD. A Structural Modelling Study on Marine Sediments Toxicity. Marine Drugs 2008;6(2):372-388. - Cod CNCIS - [309](#) & Bolboacă SD, Jäntschi L. Modelling the property of compounds from structure: statistical methods for models validation. Environmental Chemistry Letters 2008;6:175-181. - Cod CNCIS = [312](#) & Bolboacă SD, Jäntschi L. Structure-activity relationships of taxoids: a molecular descriptors family approach. Archives of Medical Science 2008;4(1):7-15. - Cod CNCIS = [311](#) & Cosma C, Suciu I, Jäntschi L, Bolboacă SD. Ion-Molecule Reactions and Chemical Composition of Emanated from Herculan Spa Geothermal Sources. International Journal of Molecular Sciences 2008;9(6):1024-1033. - Cod CNCIS = [675](#) & Suciu I, Cosma C, Todică M, Bolboacă SD, Jäntschi L. Analysis of Soil Heavy Metal Pollution and Pattern in Central Transylvania. International Journal of Molecular Sciences 2008;9(4):434-453. - Cod CNCIS = [676](#) & Jäntschi L, Popescu V, Bolboacă SD. Toxicity caused by para-substituted phenols on Tetrahymena pyriformis: The structure-activity relationships. Electronic Journal of Biotechnology 2008;11(3):paper 9. Cod CNCIS = [698](#) & Bolboacă SD, Pică EM, Cimpoiu CV, Jäntschi L. Statistical

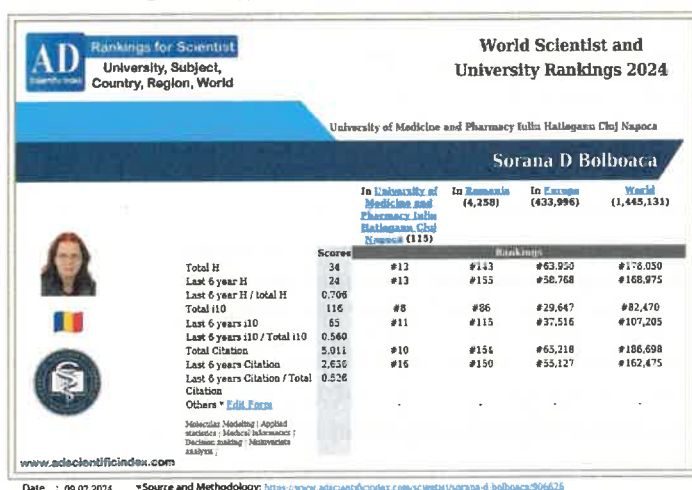
Assessment of Solvent Mixture Models Used for Separation of Biological Active Compounds. *Molecules* 2008;8(13):1617-1639. - Cod CNCIS = [699](#) & Chirilă M, Bolboacă S, Tomescu E, Revesz A, Matic A, Stamate M, Frandes I. Tratamentul cortizonic în prevenirea fistulei faringo-cutanate postlaringectomie totală. *Chirurgia* 2008;103(5):553-557. - Cod CNCIS = [738](#) & Bolboacă SD, Jäntschi L. Comparison of QSAR Performances on Carboquinone Derivatives. *TheScientificWorldJOURNAL* 2009;9(10):1148-1166. - Cod CNCIS = [416](#) & Jäntschi L, Bolboacă SD, Sestraş RE. A Study of Genetic Algorithm Evolution on the Lipophilicity of Polychlorinated Biphenyls. *Chemistry & Biodiversity* 2010;7(8):1612-1872. - Cod CNCIS = [1092](#) & Jäntschi L, Bolboacă SD, Sestraş RE. Meta-heuristics on Quantitative Structure-Activity Relationships: Study on Polychlorinated Biphenyls. *Journal of Molecular Modeling* 2010;16(2):377-386. - Cod CNCIS = [1093](#) & Jäntschi L, Bolboacă SD. Exact Probabilities and Confidence Limits for Binomial Samples: Applied to the Difference between Two Proportions. *TheScientificWorldJOURNAL* 2010;10:865-878. - Cod CNCIS = [1094](#) & Bolboacă SD, Jäntschi L. Predictivity Approach for Quantitative Structure-Property Models. Application for Blood-Brain Barrier Permeation of Diverse Drug-Like Compounds. *International Journal of Molecular Sciences* 2011;12(7):4348-4364. - [PN-II-RU-PRECISI-2012-6-0094](#) & Sestraş RE, Jäntschi L, Bolboacă SD. Poisson Parameters of Antimicrobial Activity: A Quantitative Structure-Activity Approach. *International Journal of Molecular Sciences* 2012;13(4):5207-5229. - [PN-II-RU-PRECISI-2012-6-0549](#) & Articol: Jäntschi L, Bolboacă SD, Sestraş RE. A Simulation Study for the Distribution Law of Relative Moments of Evolution. *Complexity* 2012;17(6):52-63. - [PN-II-RU-PRECISI-2012-6-0895](#) & Bolboacă SD, Jäntschi L, Diudea MV. Molecular Design and QSARs with Molecular Descriptors Family. *Current Computer-Aided Drug Design* 2013;9(2):195-205. - [PN-II-RUPRECISI-2013-7-2284](#) & Bolboacă SD, Jäntschi L. The Effect of Leverage and/or Influential on Structure-Activity Relationships. *Combinatorial Chemistry & High Throughput Screening* 2013;16(4):288-297. - [PN-II-RUPRECISI-2013-7-2446](#) & Micu MC, Alcalde M, Sáenz JI, Crespo M, Collado P, Bolboacă SD, Naredo E. Impact of Musculoskeletal Ultrasound in an Outpatient Rheumatology Clinic. *Arthritis Care & Research* 2013;65(4):615-621. - [PN-II-RUPRECISI-2013-7-2555](#) & Gherman CD, Pamfil D, Bolboacă SD. Association of Atherosclerotic Peripheral Arterial Disease with Adiponectin Genes SNP+45 and SNP+276: A Case-Control Study. *BioMed Research International* 2013;2013:Article ID 501203. - [PN-II-RU-PRECISI-2013-7-3542](#) & Jäntschi L, Bolboacă SD. Supervised Evolution: Research Concerning the Number of Evolutions that Occur Under Certain Constraints. *Chemical Biology & Drug Design* 2013;82(5):603-611. - [PN-II-RU-PRECISI-2013-7-3934](#) & Bolboacă SD, Rosca DD, Jäntschi L. Structure-Activity Relationships from Natural Evolution. *MATCH Communications in Mathematical and in Computer Chemistry* 2014;71(1):149-172. - [PN-II-RU-PRECISI-2014-8-4337](#) & Jäntschi L, Bolboacă SD. First Order Derivatives of Thermodynamic Functions under Assumption of no Chemical Changes Revisited. *Journal of Computational Science* 2014;5(4):597-602. - [PN-II-RU-PRECISI-2014-8-4396](#) & Chirilă M, Bolboacă SD. Clinical Efficiency of Quadrivalent HPV (types 6/11/16/18) Vaccine in Patients with Recurrent Respiratory Papillomatosis. *European Archives of Oto-Rhino-Laryngology* 2014;271:1135-1142. - [PN-II-RU-PRECISI-2014-8-4516](#) & Harsa AM, Harsa TE, Bolboacă SD, Diudea MV. Qsar in Flavonoids By Similarity Cluster Prediction. *Current Computer-Aided Drug Design* 2014;10:115-128. - [PN-II-RU-PRECISI-2014-8-4956](#) & Micu MC, Micu R, Surd S, Girlovanu M, Bolboacă SD, Ostensen M. TNF- α inhibitors do not impair sperm quality in males with ankylosing spondylitis after short-term or long-term treatment. *Rheumatology* 2014;53(7):1250-1255. - [PN-II-RU-PRECISI-2014-8-5249](#) & Mureşan V, Bolboacă S, Racolta E, Sevastita M, Socaciu C. Roasted Sunflower Kernel Paste (Tahini) Stability: Storage Conditions and Particle Size Influence. *Journal of the American Oil Chemists Society* 2015;92(5):669-683. - [PN-II-RU-PRECISI-2015-9-10022](#) & Lenghel LM, Botar-Jid C, Bolboacă SD, Ciortea C, Vasilescu D, Baciut G, Dudea SM. Comparative study of three sonoelastographic scores for differentiation between benign and malignant cervical lymph nodes. *European Journal of Radiology* 2015;84(6):1075-1082. - [PN-II-RU-PRECISI-2015-9-10037](#) & Botar-Jid C, Cosgarea R, Bolboacă SD, Senilă S, Lenghel ML, Rogojan L, Dudea SM. Assessment of Cutaneous Melanoma by Use of Very- High-Frequency Ultrasound and Real-Time Elastography. *American Journal of Roentgenology* 2016;206(4):699-704. - [PN-II-RU-PRECISI-2016-11942](#) & Bulboacă AE, Bolboacă SD,

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Rankings for Scientist
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World Scientist and University Rankings 2024

University of Medicine and Pharmacy Iuliu Hațieganu Cluj Napoca

Sorana D Bolboacă

	In University of Medicine and Pharmacy Iuliu Hațieganu Cluj Napoca (115)	In Romania (4,258)	In Europe (433,996)	World (1,445,131)
Total H	34	#12	#143	#178,030
Last 6 year H	24	#13	#153	#168,975
Last 6 year H / Total H	0.706			
Total i10	116	#8	#86	#82,470
Last 6 years i10	65	#11	#113	#107,205
Last 6 years i10 / Total i10	0.560			
Total Citation	5,011	#10	#154	#186,698
Last 6 years Citation	2,636	#16	#190	#162,475
Last 6 years Citation / Total Citation	0.526			

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- H-index: WoS, Scopus and Google Scholar



Sorana D. Bolboacă

University of Medicine and Pharmacy Iuliu Hațieganu Cluj Napoca

Published works: Bolboacă, Sorana D. Bolboacă, S. D. Bolboacă, Sorana D. Bolboacă, Sorana D. Bolboacă, Sorana D. Bolboacă

Published Originals: Iuliu Hațieganu University of Medicine and Pharmacy, Dept Med Informatics & Biostatistics, Iuliu Hațieganu University of Medicine and Pharmacy, Dept Med Informatics & Biostatistics

Subject Categories: Chemistry, General & Internal Medicine, Biochemistry & Molecular Biology, Pharmacology & Pharmacy, Computer Science

Research: Top reviewers in Clinical Medicine September 2023

Metrics:

Profile summary:

264 Total documents
223 Web of Science Collection publications
3 Preprints
8 Publications in Thesis
177 Worked peer reviews
46 Worked peer records

Web of Science Core Collection metrics:

24 H-index
1,965 Sum of Times Cited
0 Sum of Times Cited by Patients

223 Publications in Web of Science
1,618 Citing Articles
0 Citing Patients



(C5) My contribution to the formation of **young researchers** is reflected at all university cycles, namely undergraduate students (coordinator of the license thesis at Medicine and Technician of radiology an medical informatics), master (master program entitled **Biostatistics and Bioinformatics**) and PhD. In the 3rd cycle, PhD, I teach *Scientific medical writing and publication ethics* (compulsory discipline) and *Medical research data management* (optional). Since 2019 to date I coordinated several thesis (license and master; 6 defended on September 2023) with the following topics: *Analysis of cytological profiles of Babes-Pap smears in rural patients*, *Analysis of the retraction of oncology articles*, *Usage of medical learning applications in medical education*, *Evaluation of pediatric vaccine studies' research protocols*, *of Interactive Educational Platforms in Professional Radiology Technician Education*, *Radiology-imaging students' perception of online education*, *Clinical effectiveness and safety of transcatheter aortic valve implantation for aortic stenosis*, *Prevalence of mitral regurgitation in athletes: systematic review and meta-analysis*, *The role of virtual reality in the recovery of post-stroke stroke patients*, *Evaluation of knowledge and attitudes of medical students regarding plagiarism*, *The relationship between the study program and the perception of the severity of the adverse reactions of the SARS-Cov2 vaccine among students*, *Level of information of patients regarding conventional radiological examinations*, *Degree of information of patients regarding computed tomography examination*, *Level of information of patients regarding SPECT-CT examination*, *Assessment of stress induced by technology among students and teachers (MSc)*, *Reproducibility of minimum-maximum-interquartile range combinations in increasing diagnostic accuracy (MSc)*, *Statistical modeling of the relationship between smoking and histopathological features of prostate adenocarcinoma (MSc)*, *Evaluation of vascular risk factors among patients with Parkinson's disease (MSc)*. I currently have under supervision eleven students who work on topics such as *telemedicine*, *digital literacy*, *cyberbullying*, *online medical training*, *AI chat boots and medical information*, and *statistical modeling of medical data*.

I coordinated 2 internal grants (1494/7/28.01.2014 - *Statistical modeling of data collected through newly ultrasound technique of early malignant melanoma*), & 1495/2/28.01.2014 - *Mathematical modelling of diabetic nephropathy*; & 3 post-doc researcher grants (POSTRU: 7135/78/30.04.2014 - *Prediction of cytotoxicity, analgesic and anti-inflammatory activity on hydrazinothiazole and hydrazinoselenazole compounds* & 7135/19/30.04.2014 – *Assessment of quality of life in patients treated for head and neck squamous cell carcinomas* & POCU: 2021 – *Development and validation of an atherosclerosis experimental model*).

Ten of them PhD students under my supervision defended their thesis (eight since 2019 to date) to date and I have in this moment, under supervision, eight Romanian PhD students and one international PhD student (3 month incoming PhD student). The PhD studies are either observational (e.g., evaluation of newborns with intrauterine growth restriction, inflammation biomarkers for critical lower limb ischemia, imaging biomarkers

on cutaneous melanoma, biomarkers of immune response in HIV infection, activation of inflammatory mechanisms in overweight or obese children, prognostic factors in colorectal cancer) or interventional (animal models and the effect of natural active compounds on different diseases such as myocardial ischemia, thrombosis, type 2 diabetes, neuropathic pain, migraine etc.). Some research topics of PhD students are more technical, such as collaborative web services and medical information, evidence-based medicine, or the use of a portable ultrasound in medical practice and education.

At the level Doctoral School - Iuliu Hațieganu University of Medicine and Pharmacy Cluj-Napoca, I organized in the last three years (2021, 2022 and 2023) with DI. Prof. Dr. Nadim Al Hajjar and Prof. Dr. Dana Pop the workshop entitled “Actualities, Experiences and Innovation in Doctoral Research” (as part of the University Days), workshop with international participation. I was also the initiator of the PhD Decision Pill (first edition in 2022 and second edition in 2023), a meeting organized with Prof. Dr. Nadim Al Hajjar and Prof. Dr. Dana Pop with those who want to follow the 3rd cycle of studies within the university.

The following experiences also supported my organizational capacity: coordination of the master’s degree program [Biostatistics and Bioinformatics](#); [BeHealth 2022](#) and [2023](#) where as elected president of the Romanian Society of Medical Informatics I coordinated the **Scientific Abstracts Contest**, EHB2022 – organizer with Dr. Sorin Pușcoci the workshop entitled [Applied Informatics towards Smart Healthcare Ecosystems](#) (42 participants - 10 oral presentations & 5 posters), hybrid event with international participation; co-organizer with EFMI (European Federation of Medical Informatics) of a webinar on scientific writing (2022) and instruments and solution as supports for education during COVID-19 (2020); I was an organizer of the RoMedINF conferences in the past three editions ([2019](#), [2021](#), and [2023](#)). Currently, I am on the board of the EFMI Special Topic Conference 2024 which will be held in Timișoara in November this year.

Sorana D. Bolboacă – SCIENTIFIC ACHIEVEMENTS – 2019-2023[Google Scholar](#)[ResearchGate](#)ScopusID: [9534404800](#)Web of Science ResearcherID: [E-4457-2010](#)ORCID: [0000-0002-2342-4311](#)[Personal webpage](#)

In the last five years (2019-2023) I was involved in research on different fields of research.

In *fundamental research*, we worked on animal models and evaluate if different natural compounds as singular treatment or in combination with current practice drugs show efficacy. We demonstrated for the first time: **[a]** efficacy of (nano)curcumin or liposomal curcumin in myocardial infarction associated or not with diabetes ([Int J Mol Sci 2022;23\(3\):1438](#); [Antioxidants 2019;8\(10\):504](#); [Molecules 2019;24\(15\):2802](#); [Oxidative Medicine and Cellular Longevity 2019;2019:Article ID 7847142](#); [Int J Nanomedicine 2019;14:8961-72](#); and [Molecules 2019;24\(5\):846](#)). **[b]** increases the efficacy diclofenac by *Zingiber officinale* to diclofenac in experimental acute inflammation ([Antioxidants 2023;12\(3\):745](#)). **[c]** efficacy of (nano)curcumin: in reducing pain, inflammatory cytokines, and histological changes in acute experimental inflammation ([Int J Mol Sci 2022;23\(19\):11737](#)), increase the antioxidant efficacy of diclofenac sodium ([Biomedicines 2022;10\(1\):61](#)). **[d]** decrease of induced hepatotoxicity by liposomal epigallocatechin-gallate ([Antioxidants 2022;11\(2\):412](#)); exhibit protective effects on oxidative stress/antioxidant imbalance, metalloproteinases 2 and -9, histological changes and renal function of liposomal curcumin ([Antioxidants 2021;10\(2\):325](#)). **[d]** efficacy of lavender oil in intraperitoneal administration on induced thrombosis ([Thrombosis Journal 2023;21\(1\):85](#)). Demonstration of effects on nano curcumin on myocardial infarction and diabetes mellitus received higher attention (high number of citations and high relative citation ratio – up to 4.88; source: <https://app.dimensions.ai/>) probably because the prevalence of these diseases in the population and the challenges of treatments along with the tendency to go back and use natural compound. In the same domain of fundamental research, MCP-1 proved a systemic pro-inflammatory cytokines observed in diabetes mellitus ([Int J Nanomedicine 2019;2019:8961-8972](#)) and myocardial infarction ([Oxid Med Cell Longev. 2020;2020:6985284](#)) that it is influenced by curcumin (liposomal and nano formulations) administration.

In *clinical sciences* the main achievements were towards identification of biomarkers with clinical utility.

On patients with fatal COVID-19, we demonstrated that lung bloody exudate is a characteristic of COVID patients younger than 70 years & histopathologic signs of bronchopneumonia and interstitial edema are more frequently observed on fatal COVID patients older than 69 years ([Diagnostics 2023;13\(12\):2039](#)).

On patients with kidney transplant, we showed that the stiffness of the kidney allograft cortex is higher in cases with dysfunction (median = 28.70 kPa, interquartile range (IQR) = (25.68–31.98) kPa) as compared to patients with stable function (median = 20.99 kPa, interquartile range = (16.08–27.68) kPa; p-value = 0.0142). This result could indicate a possible utility of SWE US examination in identification of allograft dysfunction ([Diagnostics 2020;10\(1\):41](#)). In a pilot study on a limited number of patients, two CEUS parameters (WoAUC and WiWoAUC) showed possible utility in identification of patients with delayed function in case of kidney allograft ([Med Ultrason. 2020 Sep 5;22\(3\):272-278](#)). We also demonstrated similar outcome of kidney transplant recipients (KTx) with COVID-19 in the second versus the first pandemic wave in Cluj-Napoca ([Eur Surg Res. 2022;63\(1\):25-32](#)). However, we showed that the elastography is not as superior as ultrasound in the evaluation of skin melanoma ([Acta Radiol. 2020;61\(1\):93-100](#)).

On overweight or obese children, we demonstrated the usefulness of longitudinal evaluation of CHIT1 as an early marker of inflammation reduction because of lifestyle changes ([Children 2023;10\(1\):124](#)) in children with obesity or in overweight children. The circulating values of CHIT1 (expressed in logarithmic scale) had significantly higher values in children with extreme obesity than in children with overweight, indicating its potential biomarker in evaluation of this population ([J Clin Med 2022;11\(13\):3634](#)). The decrease of CHIT1 values are observed in the absence of anthropometric changes (e.g., weight, body mass index and circumferences) could be used in clinical practice to motivate patients to follow the medical indications but unfortunately the applicability in current practice is limited since the measure of its values is not settled by the health insurance company. Furthermore, on children with increase weight absolute polymorphonuclear neutrophils count proved significantly higher in severely obese adolescents than overweight adolescents ([Diagnostics 2021;11\(3\):485](#)).

On patients with migraine without aura, we demonstrated the higher values of oxidative stress parameters (NOx, MDA, and TOS), and lower values of anti-oxidative (p < 0.0001) ([Antioxidants 2020;9\(6\):494](#)).

In patients with colorectal cancer, we showed that circulating levels of neopterin as a marker of inflammation significantly decreased at 1-year follow-up, showing its potential as a prognostic marker ([Biomedicines 2023;11\(3\):894](#)). Pre-treatment inflammation ratios calculated on current laboratory makers showed exhibit statistically significant values by specific outcome (fatality,

[Combinatorial Chemistry & High Throughput Screening, 2021;24\(9\):1428-1435](#)) but showed inutility in the prognosis of patients with colorectal cancer ([Diagnostics 2021;11\(3\):566](#) & [Mathematics 2020;8\(10\):1741](#)).

On HIV-infected patients, we describe the geographical particularities of North-West Romania ([Medicina, 55\(12\):765](#)), and demonstrated a partially accomplishment of the World Health Organization Fast-Track targets (FTT) on patients living with HIV infection from Cluj County ([Healthcare, 9\(10\):1249](#)). On the same target population we observed that treatment with Dolutegravir showed a tendency to statistically significant changes in IL-4 and IL-10, so these ILs could be markers of treatment efficacy ([Plos One 2021;16\(11\):e0260007](#)).

On patients with pancreatic pathology, we reported an increase in sensitivity of the two passes, with a value of 93.8% as compared to 85.5%, indicating the clinical utility ([Endoscopy 2020;52:1084-90](#)). We also demonstrated that three endoscopic ultrasonography-guided fine-needle aspirations was optimal for a specific diagnosis of solid pancreatic masses, regardless of the histological type of the lesion ([Diagn Cytopathol. 2021;49\(3\):395-403](#)).

We reported in the scientific literature our experience with hand-held echography in medical training. Echocardiography measurements collected by an entry-level resident with a handheld device are not significantly different by those measured by an experienced examiner with a standard ultrasound device ([Diagnostics 2023;13\(5\):853](#)). Student at medical faculty are open to learn cardiovascular anatomy assisted by cardiovascular images taken with a hand-held device but the retention of abilities in identification of cardiovascular structures drop more as compared to cadaveric images, indicating the need for repetition reinforcement ([Int J Environ Res Public Health 2022;19\(5\):3033](#)). The hand-held ultrasound devices showed utility in the seriate evaluation of peripheral lung disease ([Diagnostics 2021;11\(8\):1381](#)). Furthermore, we showed that ultrasound training using handheld devices has proven to be feasible for various body regions and purposes (e.g., better understanding of anatomy, clinical applications, etc.), efficacy is limited in the absence of practice ([Diagnostics. 2023;13\(24\):3665](#)).

Two main achievements must be highlighted in the field of biostatistics. My personal article regarding research design and reporting the diagnostic accuracy was find by researcher as valuable in guiding them towards integrity in reporting diagnostic tests ([Comput Math Methods Med. 2019;2019:1891569](#)). I also demonstrated (study design) that simple random split of observations, weighting or not the patients with and without metastasis, in a ROC analysis assures the performances similar to the full model, if at least 70% of the available population is included in the study ([Mathematics 2020;8\(10\):1741](#)).

Another personal contribution to knowledge was the demonstration of research integrity infringement in citing articles retracted from publication and discuss the appropriate solutions for this behavior ([Plos One 2019;14\(6\):e0217918](#)). Citation after retraction shows lack of researcher's integrity and show that appropriate training is needed. In the domain of evidence base medicine, besides a positive attitude towards the concept, Romanian participants proved limited knowledge of EBM showing the needs for training towards personalized evidence-based medicine ([BMC Medical Education 2020;20:19](#)).

Not necessarily scientific achievements but in the spirit of high quality research in medicine, I also contributed to appropriate statistical analysis associated to design of the study (e.g., [Microorganisms 2023;11\(5\):1230](#); [Diagnostics 2022;12\(9\):2214](#); [Diagnostics 2022;12\(9\):2209](#); [Frontiers in Medicine 2022;9:90460](#); [Children 2022;9\(5\):630](#); [Frontiers in Cardiovascular Medicine 2022;9:731325](#); [Int J Environ Res Public Health 2022;19\(3\):1302](#); [Int J Environ Res Public Health 2021;18\(17\):9382](#); [Int J Clin Pract 2021;75\(4\):e13933](#); [J Clin Med. 2020;9\(6\):1744](#); [Plos One 2020;15\(8\):e0237510](#); [Curr Med Chem. 2020;27\(1\):5-22](#)).

Analyzing personal achievements, some of my publication received high altimetric attention:

Publication metrics About Dimensions Badge  42 Total citations 14 Recent citations 4.85 Field Citation Ratio 2.78 Relative Citation Ratio Altmetric  X (30) Mendeley (73) Molecules 2019;24(5):846	Publication metrics About Dimensions Badge  30 Total citations 16 Recent citations 24 Field Citation Ratio 1.17 Relative Citation Ratio Altmetric  Blogs (2) X (3) Facebook (1) Mendeley (31) Plos One 2019;14(6):e0217918	Publication metrics About Dimensions Badge  3 Total citations 1 Recent citation 0.56 Field Citation Ratio 0.16 Relative Citation Ratio Altmetric  Blogs (1) X (5) Mendeley (45) Curr Med Chem. 2020;27(1):5-22
Publication metrics About Dimensions Badge  4 Total citations 2 Recent citations 2.21 Field Citation Ratio 0.34 Relative Citation Ratio Altmetric  X (11) Mendeley (10) American Journal of Hypertension 2021;34(8):880-887	Publication metrics About Dimensions Badge  1 Total citation 1 Recent citation n/a Field Citation Ratio n/a Relative Citation Ratio Altmetric  X (12) Mendeley (11) Antioxidants 2023;12(3):745	Publication metrics About Dimensions Badge  2 Total citations 2 Recent citations n/a Field Citation Ratio n/a Relative Citation Ratio Altmetric  X (4) Mendeley (14) Thrombosis Journal 2023;21(1):85

while other received higher attention from the scientific community, measured by number of citations:

Publication metrics About Dimensions Badge  90 Total citations 40 Recent citations 11 Field Citation Ratio 4.88 Relative Citation Ratio (nano)curcumin & AMI doi: 10.1155/2019/7847142	Publication metrics About Dimensions Badge  56 Total citations 28 Recent citations 15 Field Citation Ratio 3.16 Relative Citation Ratio Altmetric  Statistics methods doi: 10.1155/2019/1891569	Publication metrics About Dimensions Badge  53 Total citations 29 Recent citations 10 Field Citation Ratio 3.45 Relative Citation Ratio (nano)curcumin & AMI and DM2 doi: 10.3390/antiox8100504
Publication metrics About Dimensions Badge  53 Total citations 30 Recent citations 6.13 Field Citation Ratio 3.07 Relative Citation Ratio (nano)curcumin & AMI doi: 10.3390/molecules24152802	Publication metrics About Dimensions Badge  42 Total citations 14 Recent citations 4.85 Field Citation Ratio 2.78 Relative Citation Ratio Altmetric  (lipo)curcumin & DM2 doi: 10.3390/molecules24050846	Publication metrics About Dimensions Badge  31 Total citations 15 Recent citations 13 Field Citation Ratio 2.33 Relative Citation Ratio Altmetric  (lipo)curcumin & DM2 doi: 10.2147/IJIN.S226790
Publication metrics About Dimensions Badge  30 Total citations 16 Recent citations 24 Field Citation Ratio 1.16 Relative Citation Ratio Altmetric  publication etics doi: 10.1371/journal.pone.0217918	Publication metrics About Dimensions Badge  23 Total citations 13 Recent citations 8.72 Field Citation Ratio 1.62 Relative Citation Ratio Altmetric  EUS-FNA pancreatic solid masses doi: 10.1055/a-1193-4954	Publication metrics About Dimensions Badge  13 Total citations 12 Recent citations 7.17 Field Citation Ratio 2.09 Relative Citation Ratio Lung Hand-Held Ultrasound doi: 10.3390/diagnostics11081381

Regardless of achievements measured by metrics, we must remember that evidence in medicine is not immortal, and the knowledge is expected to progress towards high quality and valid healthcare for citizens. Today's evidence will often not be true tomorrow. I strongly believe that we must direct our attention also towards translation of research results to be readable by the general population.

SORANA D. BOLBOACĂ**PUBLICATIONS LIST – 2019-2023**[Google Scholar](#)[ResearchGate](#)ScopusID: [9534404800](#)Web of Science ResearcherID: [E-4457-2010](#)ORCID: [0000-0002-2342-4311](#)[Personal webpage](#)**Journal articles - author****Q1 -AIS (source uefiscdi – [JCR2022](#))**

1. Seicean, A; Samarghitan, A; Bolboaca, SD; Pojoga, C; Rusu, I; Rusu, D; Sparchez, Z; Gheorghiu, M; Al Hajjar, N; Seicean, R. Contrast-enhanced harmonic versus standard endoscopic ultrasound-guided fine-needle aspiration in solid pancreatic lesions: a single-center prospective randomized trial. *ENDOSCOPY* **2020**;52(12):1084-1090. doi:10.1055/a-1193-4954 (AIS=3.232, Q1)
2. Botar-Jid, CM; Cosgarea, R; Bolboaca, SD; Senila, SC; Lenghel, LM; Rogojan, L; Dudea, SM. Assessment of Cutaneous Melanoma by Use of Very-High-Frequency Ultrasound and Real-Time Elastography. *AMERICAN JOURNAL OF ROENTGENOLOGY* **2016**;206(4):699-704. doi:10.2214/AJR.15.15182 (AIS=1.281, Q1)
3. Micu, MC; Micu, R; Surd, S; Gîrlovanu, M; Bolboaca, SD; Ostensen, M. TNF- α inhibitors do not impair sperm quality in males with ankylosing spondylitis after short-term or long-term treatment. *RHEUMATOLOGY* **2014**;53(7):1250-1255. doi:10.1093/rheumatology/keu007 (AIS=1.851, Q1)
4. Micu, MC; Alcalde, M; Sáenz, JI; Crespo, M; Collado, P; Bolboaca, SD; Naredo, E. Impact of Musculoskeletal Ultrasound in an Outpatient Rheumatology Clinic. *ARTHRITIS CARE & RESEARCH* **2013**;65(4):615-621. doi:10.1002/acr.21853 (AIS=1.596, Q1)
5. Chirila, M; Bolboaca, SD; Cosgarea, M; Tomescu, E; Muresan, M. Perineural invasion of the major and minor nerves in laryngeal and hypopharyngeal cancer. *OTOLARYNGOLOGY-HEAD AND NECK SURGERY* **2009**;140(1):65-69. doi:10.1016/j.otohns.2008.10.019 (AIS=1.042, Q1)
6. Bolboaca, SD; Jäntschi, L. Modelling the property of compounds from structure:: statistical methods for models validation. *ENVIRONMENTAL CHEMISTRY LETTERS* **2008**;6(3):175-181. doi:10.1007/s10311-007-0119-9 (AIS=1.286, Q1)

Q2 -AIS (source uefiscdi – [JCR2022](#))

1. Haji-Hassan, M; Capras, RD; Bolboaca, SD. Efficacy of Handheld Ultrasound in Medical Education: A Comprehensive Systematic Review and Narrative Analysis. *DIAGNOSTICS* **2023**;13(24):3665. doi:10.3390/diagnostics13243665 (AIS=0.668, Q2)
2. But, VM; Bulboaca, AE; Rus, V; Ilyés, T; Gherman, ML; Bolboaca, SD. Anti-inflammatory and antioxidant efficacy of lavender oil in experimentally induced thrombosis. *THROMBOSIS JOURNAL* **2023**;21(1):85. doi:10.1186/s12959-023-00516-0 (AIS=0.96, Q2)
3. Gheban-Rosca, IA; Gheban, BA; Pop, B; Mironescu, DC; Siserman, VC; Jianu, EM; Drugan, T; Bolboaca, SD. Identification of Histopathological Biomarkers in Fatal Cases of Coronavirus Disease: A Study on Lung Tissue. *DIAGNOSTICS* **2023**;13(12):2039. doi:10.3390/diagnostics13122039 (AIS=0.668, Q2)
4. Baies, MH; Cotutiu, VD; Spinu, M; Mathe, A; Cozma-Petrut, A; Miere, D; Bolboaca, S; Cozma, V. The Effects of Coriandrum sativum L. and Cucurbita pepo L. against Gastrointestinal Parasites in Swine: An In Vivo Study. *MICROORGANISMS* **2023**;11(5):1230. doi:10.3390/microorganisms11051230 (AIS=0.825, Q2)

5. Boarescu, I; Pop, RM; Boarescu, PM; Bocsan, IC; Gheban, D; Bulboaca, AE; Buzoianu, AD; Bolboaca, SD. Ginger (*Zingiber officinale*) Root Capsules Enhance Analgesic and Antioxidant Efficacy of Diclofenac Sodium in Experimental Acute Inflammation. *ANTIOXIDANTS* **2023**;12(3):745. doi:10.3390/antiox12030745 (AIS=0.945, Q2)
6. Ciocan, A; Ciocan, RA; Al Hajjar, N; Benea, AM; Pandrea, SL; Catana, CS; Drugan, C; Oprea, VC; Derzu, DS; Bolboaca, SD. Exploratory Evaluation of Neopterin and Chitotriosidase as Potential Circulating Biomarkers for Colorectal Cancer. *BIOMEDICINES* **2023**;11(3):894. doi:10.3390/biomedicines11030894 (AIS=0.802, Q2)
7. Haji-Hassan, M; Dutu, B; Bolboaca, SD. Handheld Echocardiography Measurements Concordance and Findings Agreement: An Exploratory Study. *DIAGNOSTICS* **2023**;13(5):853. doi:10.3390/diagnostics13050853 (AIS=0.668, Q2)
8. Boarescu, I; Pop, RM; Boarescu, PM; Bocsan, IC; Gheban, D; Rădnoveanu, RM; Rădnoveanu, A; Bulboaca, AE; Buzoianu, AD; Bolboaca, SD. Anti-Inflammatory and Analgesic Effects of Curcumin Nanoparticles Associated with Diclofenac Sodium in Experimental Acute Inflammation. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* **2022**;23(19):11737. doi:10.3390/ijms231911737 (AIS=1.028, Q2)
9. Gheorghiu, M; Seicean, A; Bolboaca, SD; Rusu, I; Seicean, R; Pojoga, C; Mosteanu, O; Sparchez, Z. Endoscopic Ultrasound-Guided Fine-Needle Biopsy versus Fine-Needle Aspiration in the Diagnosis of Focal Liver Lesions: Prospective Head-to-Head Comparison. *DIAGNOSTICS* **2022**;12(9):2214. doi:10.3390/diagnostics12092214 (AIS=0.668, Q2)
10. Olar, MP; Bolboaca, SD; Pojoga, C; Mosteanu, O; Gheorghiu, M; Seicean, R; Rusu, I; Sparchez, Z; Al Hajjar, N; Seicean, A. Clinical Utility of the Contrast-Enhanced Endoscopic Ultrasound Guided Fine Needle Aspiration in the Diagnosis of Pancreatic Cyst. *DIAGNOSTICS* **2022**;12(9):2209. doi:10.3390/diagnostics12092209 (AIS=0.668, Q2)
11. Taranu, I; Iancu, M; Lazea, C; Alkhzouz, C; Racataianu, N; Catana, CS; Mirea, AM; Miclea, D; Bolboaca, SD; Drugan, C. Evaluation of Circulating Chitotriosidase Activity in Children with Obesity. *JOURNAL OF CLINICAL MEDICINE* **2022**;11(13):3634. doi:10.3390/jcm11133634 (AIS=0.908, Q2)
12. Nicula, CA; Bulboaca, AE; Nicula, D; Nicula, AP; Horvath, KU; Bolboaca, SD. Performances of Corneal Topography and Tomography in the Diagnosis of Subclinical and Clinical Keratoconus. *FRONTIERS IN MEDICINE* **2022**;9():904604. doi:10.3389/fmed.2022.904604 (AIS=0.936, Q2)
13. Dregoesc, MI; Tigu, AB; Bekkering, S; van der Heijden, CDCC; Bolboaca, SD; Joosten, LAB; Visseren, FLJ; Netea, MG; Riksen, NP; Iancu, AC. Relation Between Plasma Proteomics Analysis and Major Adverse Cardiovascular Events in Patients With Stable Coronary Artery Disease. *FRONTIERS IN CARDIOVASCULAR MEDICINE* **2022**;9():731325. doi:10.3389/fcvm.2022.731325 (AIS=0.897, Q2)
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15. Bulboaca, AE; Porfire, AS; Rus, V; Nicula, CA; Bulboaca, CA; Bolboaca, SD. Protective Effect of Liposomal Epigallocatechin-Gallate in Experimental Gentamicin-Induced Hepatotoxicity. *ANTIOXIDANTS* **2022**;11(2):412. doi:10.3390/antiox11020412 (AIS=0.945, Q2)
16. Boarescu, I; Boarescu, PM; Pop, RM; Bocsan, IC; Gheban, D; Rădnoveanu, RM; Rădnoveanu, A; Bulboaca, AE; Buzoianu, AD; Bolboaca, SD. Curcumin Nanoparticles Enhance Antioxidant Efficacy of Diclofenac Sodium in Experimental Acute Inflammation. *BIOMEDICINES* **2022**;10(1):61. doi:10.3390/biomedicines10010061 (AIS=0.802, Q2)
17. Jianu, C; Itu-Muresan, C; Drugan, C; Filipescu, I; Topan, AV; Jianu, ME; Morar, II; Bolboaca, SD. Evaluation of several serum interleukins as markers for treatment effectiveness in naive HIV infected patients: A pilot study. *PLOS ONE* **2021**;16(11):e0260007. doi:10.1371/journal.pone.0260007 (AIS=0.944, Q2)

18. Haji-Hassan, M; Lenghel, LM; Bolboaca, SD. Hand-Held Ultrasound of the Lung: A Systematic Review. *DIAGNOSTICS* **2021**;11(8):1381. doi:10.3390/diagnostics11081381 (AIS=0.668, Q2)
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20. Taranu, I; Lazea, C; Cret, V; Racataianu, N; Iancu, M; Bolboaca, SD. Inflammation-Related Markers and Thyroid Function Measures in Pediatric Patients: Is the Grade of Obesity Relevant?. *DIAGNOSTICS* **2021**;11(3):485. doi:10.3390/diagnostics11030485 (AIS=0.668, Q2)
21. Dregoesc, MI; Bolboaca, SD; Doroltan, PM; Istrate, M; Marc, MC; Iancu, AC. Long-Term Mortality After Renal Artery Stenting in Patients With Severe Atherosclerotic Renal Artery Stenosis and High-Risk Clinical Manifestations. *AMERICAN JOURNAL OF HYPERTENSION* **2021**;34(8):880-887. doi:10.1093/ajh/hpab027 (AIS=0.885, Q2)
22. Bulboaca, AE; Porfire, A; Bolboaca, SD; Nicula, CA; Festila, DG; Roman, A; Râjnoveanu, RM; Râjnoveanu, A; Dogaru, G; Boarescu, PM; Rus, V; Bulboaca, CA; Bulboaca, AI; Stanescu, I. Protective Effects of Liposomal Curcumin on Oxidative Stress/Antioxidant Imbalance, Metalloproteinases 2 and-9, Histological Changes and Renal Function in Experimental Nephrotoxicity Induced by Gentamicin. *ANTIOXIDANTS* **2021**;10(2):325. doi:10.3390/antiox10020325 (AIS=0.945, Q2)
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25. Stanescu, I; Bulboaca, AE; Micu, IC; Bolboaca, SD; Festila, DG; Bulboaca, AC; Bodizs, G; Dogaru, G; Boarescu, PM; Popa-Wagner, A; Roman, A. Gender Differences in the Levels of Periodontal Destruction, Behavioral Risk Factors and Systemic Oxidative Stress in Ischemic Stroke Patients: A Cohort Pilot Study. *JOURNAL OF CLINICAL MEDICINE* **2020**;9(6):1744. doi:10.3390/jcm9061744 (AIS=0.908, Q2)
26. Zaharie, A; Bolboaca, SD; Moisoiu, T; Burghilea, D; Iacob, G; Ghervan, L; Elec, FI. Renal Tumors in Young Adults: Is Preoperative Computer Tomography Imaging Suggestive for the Nature of the Tumors?. *DIAGNOSTICS* **2020**;10(6):380. doi:10.3390/diagnostics10060380 (AIS=0.668, Q2)
27. Capras, RD; Bulboaca, AE; Bolboaca, SD. Evidence-based medicine self-assessment, knowledge, and integration into daily practice: a survey among Romanian physicians and comparison between trainees and specialists. *BMC MEDICAL EDUCATION* **2020**;20(1):19. doi:10.1186/s12909-020-1933-z (AIS=0.914, Q2)
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29. Janezic, D; Jäntschi, L; Bolboaca, SD. Sugars and Sweeteners: Structure, Properties and In Silico Modeling. *CURRENT MEDICINAL CHEMISTRY* **2020**;27(1):5-22. doi:10.2174/0929867325666180926144401 (AIS=0.735, Q2)
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31. Bolboaca, SD; Buhai, DV; Aluas, M; Bulboaca, AE. Post retraction citations among manuscripts reporting a radiology-imaging diagnostic method. *PLOS ONE* **2019**;14(6):e0217918. doi:10.1371/journal.pone.0217918 (AIS=0.944, Q2)

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9. Research projects

ID458/UEFISCSU , "IDEAS" 2007-2010

- Director: Dr. Sorana D. BOLBOACA
- Title: Biochemistry versus Biomathematics in Molecular Medicine
- No.: ID458/UEFISCSU/206/1.10.2007
- Funds: 841500 lei
- Members in the research team: 5, 3 with PhD and 2 PhD students

AT93/MECT/CNCSIS

- Director: Dr. Sorana D. BOLBOACA
- Title: Applied Statistics (Time Series, Principal Component Analysis) - Collagen - Structure-Properties Characterization
- No.: 93GR/07.06.2007
- Funds: 170000 lei
- Members in the research team: 5, 3 with PhD, 1 PhD student and 1 undergraduate student

International projects

R25TW010518 2018-2023

- Director: **Prof. Dr. Rosamond Rhodes**
- Title: [Establishing a Master Program in Research Ethics and Methodology in Cluj-Napoca, Romania](#)
- No.: R25TW010518
- Function: [Member](#)

Grant agreement no. 667837 2016-2019

- Director: **Prof. Dr. Adrian Iancu**
- Title: [REPROGRAM: Targeting epigenetic REPROGRAMming of innate immune cells in Atherosclerosis Management and other chronic inflammatory diseases](#)
- No.: Grant agreement no. 667837 HORIZON 2020 European Research Program
- Function: [Member](#)

Euratom, FP7-EURATOM-FISSION January 2008 - June 2011

- Director: **Dr. Kerry CHANTREY - University of Manchester**
- Title: [Safety and efficacy of a new and emerging dental X-ray modality \(SEDENTEXCT\)](#)
- No.: 212246
- Function: Member - "Iuliu Hatieganu" University of Medicine and Pharmacy Cluj-Napoca partner

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10. List of patents submitted and accepted, if applicable: not applicable