

Research/art/teacher profile of a person

Name and surname	doc. PharmDr. Anna Paul Hrabovská, PhD.
Document type:	Research/art/teacher profile of a person
The name of the university	Comenius University Bratislava
The seat of the university	Šafárikovo námestie 6, 818 06 Bratislava
The name of the faculty	Faculty of Pharmacy
The seat of the faculty	Odbojárov 10, 832 32 Bratislava

I. - Basic information

I.1 - Surname	Paul Hrabovska
I.2 - Name	Anna
I.3 - Degrees	associate professor, PharmD., PhD.
I.4 - Year of birth	1976
I.5 - Name of the workplace	Comenius University in Bratislava, Faculty of Pharmacy, Department of Pharmacology and Toxicology
I.6 - Address of the workplace	Odbojarov 10, 83232 Bratislava
I.7 - Position	professor
I.8 - E-mail address	anna.hrabovska.hrabovska@uniba.sk
I.9 - Hyperlink to the entry of a person in the Register of university staff	https://www.portalvs.sk/regzam/detail/3719
I.10 - Name of the study field in which a person works at the university	pharmacology
I.11 - ORCID iD	0000-0003-1713-872X

II. - Higher education and further qualification growth

II.1 - First degree of higher education

II.a - Name of the university or institution	n/a
II.b - Year	n/a
II.c - Study field and programme	n/a

II.2 - Second degree of higher education

II.a - Name of the university or institution	Faculty of Pharmacy, Comenius University in Bratislava
II.b - Year	1999
II.c - Study field and programme	pharmacy

II.3 - Third degree of higher education

II.a - Name of the university or institution	Faculty of Pharmacy, Comenius University in Bratislava
II.b - Year	2005
II.c - Study field and programme	pharmaceutical chemistry

II.4 - Associate professor

II.a - Name of the university or institution	Faculty of Pharmacy, Comenius University in Bratislava
II.b - Year	2013
II.c - Study field and programme	pharmacology

II.5 - Professor

II.6 - Doctor of Science (DrSc.)

III. - Current and previous employment

III.a - Occupation-position	III.b - Institution	III.c - Duration
associate professor	Faculty of Pharmacy, Comenius University in Bratislava	2013 - 2023
assisant professor	Faculty of Pharmacy, Comenius University in Bratislava	1999 - 2013
head of the department	Faculty od Medicine, Slovak Medical University in Bratislava	2019 - present
visiting professor	Biomedical Research Center (BRC), University Hospital Hradec Kralove; Hradec Kralove, Czech republic	2019 - 2020
professor	Faculty of Pharmacy, Comenius University in Bratislava	2023 - present

IV. - Development of pedagogical, professional, language, digital and other skills

IV.a - Activity description, course name, other	IV.b - Name of the institution	IV.c - Year
Cell and gene regulation	University of Nebraska Medical Center; Omaha, NE, USA	2002
Laboratory techniques in biochemistry and molecular biology	University of Nebraska Medical Center; Omaha, NE, USA	2002
French language	l'Institut français de Slovaquie	2004
French language	INSERM, Paríž, Francúzsko	2006

V. - Overview of activities within the teaching career at the university

V.1 - Overview of the profile courses taught in the current academic year according to study programmes

V.1.a - Name of the profile course	V.1.b - Study programme	V.1.c - Degree	V.1.d - Field of study
Pharmacology	Pharmacy	Master	Pharmacy
Functional and pathological anatomy	Pharmacy	Master	Pharmacy
Systemic and pathological physiology	Pharmacy	Master	Pharmacy
Human anatomy and physiology	Medical and diagnostic tools	Bachelor	Pharmacy
Pharmacology	Medical and diagnostic tools	Bachelor	Pharmacy
Toxicology	Pharmacy	Master	Pharmacy

V.2 - Overview of the responsibility for the delivery, development and quality assurance of the study programme or its part at the university in the current academic year

V.2.a - Name of the study programme	V.2.b - Degree	V.2.c - Field of study
Clinical Pharmacy	PhD.	Pharmacy
Toxicology	Master	Pharmacy

V.4 - Overview of supervised final theses

V.4.1 - Number of currently supervised theses

V.4.a - Bachelor's (first degree)	0
V.4.b - Diploma (second degree)	1
V.4.c - Dissertation (third degree)	2

V.4.2 - Number of defended theses

V.4.a - Bachelor's (first degree)	1
V.4.b - Diploma (second degree)	47
V.4.c - Dissertation (third degree)	4

VI. - Overview of the research/artistic/other outputs

VI.1 - Overview of the research/artistic/other outputs and the corresponding citations

VI.1.1 - Number of the research/artistic/other outputs

VI.1.a - Overall	189
VI.1.b - Over the last six years	23

VI.1.2 - Number of the research/artistic/other outputs registered in the Web of Science or Scopus databases

VI.1.a - Overall	35 (WoS) / 39 (Scopus)
VI.1.b - Over the last six years	9 (WoS, Scopus)

VI.1.3 - Number of citations corresponding to the research/artistic/other outputs

VI.1.4 - Number of citations registered in the Web of Science or Scopus databases

VI.1.a - Overall	344 (WoS) / 364 (Scopus)
VI.1.b - Over the last six years	151 (WoS) / 168 (Scopus)

VI.1.5 - Number of invited lectures at the international, national level

VI.2 - The most significant research/artistic/other outputs

1	Altered striatal function and muscarinic cholinergic receptors in acetylcholinesterase knockout mice By: Volpicelli-Daley, LA; Hrabovska, A; Duysen, EG; et al. MOLECULAR PHARMACOLOGY Volume: 64 Issue: 6 Pages: 1309-1316 Published: DEC 2003 • 2003: 5.650 - IF; Q1 - JCR; Q1 - SJR; • cit 2023: 47 (WoS), 57 (Scopus)
2	Targeting of Acetylcholinesterase in Neurons In Vivo: A Dual Processing Function for the Proline-Rich Membrane Anchor Subunit and the Attachment Domain on the Catalytic Subunit By: Dobbertin, Alexandre; Hrabovska, Anna; Dembele, Korami; et al. JOURNAL OF NEUROSCIENCE Volume: 29 Issue: 14 Pages: 4519-4530 Published: APR 8 2009 • 2009: 7.178 - IF; Q1 - JCR; Q1 - SJR; • cit 2023: 55 (WoS), 53 (Scopus)
3	Optimal detection of cholinesterase activity in biological samples: Modifications to the standard Ellman's assay By: Dingova, Dominika; Leroy, Jacqueline; Check, Abel; ... Hrabovska, Anna. ANALYTICAL BIOCHEMISTRY Volume: 462 Pages: 67-75 Published: OCT 1 2014 • 2014: 2.219 - IF; Q2 - JCR; Q2 - SJR; • cit. 2023: 42 (WoS), 42 (Scopus)
4	Near-complete adaptation of the PRiMA knockout to the lack of central acetylcholinesterase By: Farar, Vladimir; Mohr, Franziska; Legrand, Marie; et al. JOURNAL OF NEUROCHEMISTRY Volume: 122 Issue: 5 Pages: 1065-1080 Published: SEP 2012 • 2012: 3.973 - IF; Q2 - JCR; Q1 - SJR; • cit. 2023: 26 (WoS), 27 (Scopus)

5	A Novel System for the Efficient Generation of Antibodies Following Immunization of Unique Knockout Mouse Strains By: Hrabovska, Anna; Bernard, Veronique; Krejci, Eric PLOS ONE Volume: 5 Issue: 9 Article Number: e12892 Published: SEP 23 2010 • 2010:4.411 - IF; Q1 - JCR; Q1 - SJR; • cit. 2023: 18 (WoS), 20 (Scopus)
VI.3 - The most significant research/artistic/other outputs over the last six years	
1	Cardiac nicotinic receptors show b-subunit-dependent compensatory changes By: Targosova, Katarina; Kucera, Matej; Kilianova, Zuzana; ...Hrabovska, Anna. AMERICAN JOURNAL OF PHYSIOLOGY - HEART AND CIRCULATORY PHYSIOLOGY, 2021, 320(5), pp. H1975-H1984 • 2021: 4.733 - IF; Q1 - JCR, Q1 - SJR • Cit: 2 (WoS) / 2 (Scopus)
2	Serum butyrylcholinesterase as a marker of COVID-19 mortality: Results of the monocentric prospective observational study. Markuskova L, Javorova Rihova Z, Fazekas T, Martinkovicova A, Havrisko M, Dingova D, Solavova M, Rabarova D, Hrabovska A. Chem Biol Interact. 2023 Aug 25;381:110557. doi: 10.1016/j.cbi.2023.110557.
3	α7 nicotinic receptors play a role in regulation of cardiac hemodynamics. Targosova K, Kucera M, Fazekas T, Kilianova Z, Stankovicova T, Hrabovska A. J Neurochem. 2023 Apr 5. doi: 10.1111/jnc.15821. Online ahead of print. PMID: 37017608
4	Aortic butyrylcholinesterase is reduced in spontaneously hypertensive rats. Szmiceková K, Bies Piváčková L, Kiliánová Z, Slobodová L, Křenek P, Hrabovská A. Physiol Res. 2021 Nov 29;70(5):809-813. doi: 10.33549/physiolres.934669. Epub 2021 Sep 10. PMID: 34505519 Citations: 1 (WoS) / 2 (Scopus)
5	Javorova Rihova, Zuzana; Slobodova, Lubica; Hrabovska, Anna Micafungin is an efficient treatment of multi drug-resistant candida glabrata urosepsis: A case report. JOURNAL OF FUNGI, 2021, 7(10), 800 • 2021: 5.266 - IF; Q1 - JCR; Q1 - SJR
VI.4 - The most significant citations corresponding to the research/artistic/other outputs	
1	Brunton LL, Hilal-Dandan R, Knollmann BC (2018) Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13e. ISBN 978-1-25-958473-2. McGraw-Hill Education USA.
2	Long, Jonathan Z.; Cravatt, Benjamin F. (2011) The Metabolic Serine Hydrolases and Their Functions in Mammalian Physiology and Disease. CHEMICAL REVIEWS 111(10), 6022-6063. • IF:54,301
3	Sarter, M; Parikh, V (2008) Choline transporters, cholinergic transmission and cognition. NATURE REVIEWS NEUROSCIENCE 6(1), 48-56. • IF: 33,162
4	Bamford, Nigel S.; Zhang, Hui; Joyce, John A.; et al. (2008) Repeated exposure to methamphetamine causes long-lasting presynaptic corticostriatal depression that is renormalized with drug read ministraton. NEURON 58(1), 89-103. • IF:14,403
5	Guo, Zhiling; Zhang, Peng;...; Lynch, Iseult. Intranasal exposure to ZnO nanoparticles induces alterations in cholinergic neurotransmission in rat brain NANO TODAY. Volume35, Article Number 100977, DEC 2020 • IF: 21.862, Q1
VI.5 - Participation in conducting (leading) the most important research projects or art projects over the last six years	
1	name of the project: Therapeutic role of selective ChE inhibition in heart failure; grant scheme: APVV-22-0541; years: 2023 - 2026; position: PI
2	name of the project: Participation of the cholinergic system in pathologies underlying metabolic syndrome; grant scheme: VEGA 1/0283/22; years of realization: 2021 - 2023; role of principal investigator in the project: principle investigator
3	name of the project: Biomarkers for severe COVID-19; grant scheme: VEGA 1/0283/22; years of realization: 2022 - 2024; role of principal investigator in the project: co- principle investigator

4	name of the project: Intrinsic cholinergic mechanisms in cardiac functions; grant scheme: VEGA 1/0855/15; years of realization: 2015 – 2017; role of principal investigator in the project: principle investigator
5	name of the project: Non-neuronal cholinergic system; grant scheme: Bourse de Gouvernement Français; years of realization: 2017 – 2020; project cost: fellowship; role of principal investigator in the project: co-tutor/adviser

VII. - Overview of organizational experience related to higher education and research/artistic/other activities

VII.a - Activity, position	VII.b - Name of the institution, board	VII.c - Duration
Member of the Subcommittee on Generic Medicines	State Institute for Drug Control	09/2009 - 12/2021
Slovak expert for European Medicines Agency (EMA)	European Medicines Agency (EMA)	2015 - 2017
Member of the Scientific Board	Faculty of Medicine, Masaryk University in Brno, Czech republic	01/2019 - present
Member of the Scientific Board	Faculty of Medicine, Slovak Medical University in Bratislava	01/2020 - present
Evaluator of the accreditation dosiers	National Accreditation Bureau for Higher Education, Czech republic	2019 - present
Member of the board for medical sciences	The Slovak Research and Development Agency	2021 - present
member of Advisory Board	International Advisory Board (IAB) on Cholinergic Mechanisms	since 2022
member of Advisory Board	International Advisory Board (IAB) on International meeting on Cholinesterases	since 2022

VIII. - Overview of international mobilities and visits oriented on education and research/artistic/other activities in the given field of study

VIII.a - Name of the institution	VIII.b - Address of the institution	VIII.c - Duration (indicate the duration of stay)	VIII.d - Mobility scheme, employment contract, other (describe)
Eppley Institute, University of Nebraska Medical Center	Omaha, NE, USA	10/2001 – 12/2003	visiting researcher
Centre de Recherches du Service de Sante des Armees, Toxicology Dept	La Tronche, France	05/2004 – 06/2004	mobility of Comenius University
Charles University, 1st Faculty of Medicine, Institute of Physiology	Prague, Czech republic	04/2005 - 05/2005	APVV mobility grant
UFR Biomédicale Paris 5, INSERM U686, Biologie des Jonctions Neuromusculaires	Paris, France	10/2005 – 06/2009	post-doc
CNRS UMR 8544, Ecole Normale Supérieure	Paris, France	03/2009 – 05/2009	post-doc

IX. - Other relevant facts

IX.a - If relevant, other activities related to higher education or research/artistic/other activities are mentioned

- Reviewer of grant applications submitted to the Agency for Research and Development Support (since 2014) and grant applications submitted to the Scientific Grant Agency of the Ministry of Education, Science, Research and Sports of the Slovak Republic and the Slovak Academy of Sciences (since 2015);
- Peer-reviewer of papers submitted to the international CC and IF journals (from many, for example: Journal of Neurology, Neurosurgery, and Psychiatry, IF 7.144, since 2017; Current Alzheimer Research, IF 3.595, since 2018; Current Medicinal Chemistry IF 3.519, from 2010; Chemico-Biological Interactions, IF 3.308, from r. 2005)
- Associate Editor for the Journal of Alzheimer's Disease (2016);
- Guidepoint Professional Consultant;
- Hameln rds. expert consultant - toxicological expertise and preclinical drug evaluation;
- Reviewer of textbooks: Martina Čižmáriková and Peter Takáč (2019): Dosage forms and application routes of drugs with a focus on their importance in human medicine. ISBN 978-80-8152-753-1;
- Regular contributor to the European Researchers' Night in Bratislava - popularizing science and bringing selected scientific topics closer to children and the general public

Date of last update

22.09.2023