

Odbor habilitačného a inauguračného konania: **Fyzikálna chémia, Organická chémia**

Minimálne povinné požiadavky	Požadované minimálne hodnoty		Skutočné
	Prof.	Doc.	
I. Vzdelávacia činnosť a tvorba študijných materiálov Vzdelávacia činnosť v rozsahu: Vysokoškolská učebnica alebo učebný text, skriptá (uvádza sa autorský podiel uchádzca): Záverečné práce obhájené pod vedením uchádzca:	3 roky po doc. 1 (3 AH) 2x (3 AH) 10	3 roky po PhD. - 1 (3 AH) 5	14 rokov po doc. 1 (1)
II. Vedeckovýskumná alebo tvorivá umelecká aktivita ^{*)} Výstupy v kategóriach A+, A, A- a B z toho výstupy v kategóriách A+ a A:	60 (10) 20 (5)	20 (7) 8 (3)	128 (16) 47(15)
III: Ohlasy na publikáčnu alebo umeleckú aktivitu ^{*)} Ohlasy spolu z toho: Ohlasy registrované vo WoS alebo SCOPUS:	120 (60) 90 (45)	40 (20) 30 (15)	1405(411) 1333(407)
IV. Vedecká škola Výchova doktorandov: (skončený/po dizertačnej skúške): Účastník/vedúci výskumného alebo umeleckého projektu:	2 2/0 6/1	- - 3/0	11(2) 11(2) 22/11 (6/3)
V. Doplňujúce kritériá ^{**)}			

^{*)} V závorke uviesť počty za posledných 5 rokov.

^{**) Doplňujúce kritériá určia vedecké rady fakúlt ohľadom na špecifickú odboru Hal konania.}

Kategorizácia výstupov:

A+	publikácia v časopise Q1, medzinárodný patent
A	publikácia v časopise Q2, monografia v MRV
A-	publikácia v časopise WoS alebo SCOPUS, národný patent
B	ostatné publikácie vo WoS alebo SCOPUS, ostatné recenzované publikácie v časopisoch

Akceptuje sa zaradenie časopisu do kvartílov podľa WoS alebo SCOPUS.

SLOVENSKÁ TECHNICKÁ UNIVERZITA V BRATISLAVE
Fakulta chemickej a potravinárskej technológie

**SUMÁRNY PREHĽAD PEDAGOGICKEJ A VEDECKOVÝSKUMNEJ ČINNOSTI
K ŽIADOSTI NA VÝBEROVÉ KONANIE ZA MIESTO DOCENTA ALEBO PROFESORA**

v odbore (číslo a názov odboru)

Meno a priezvisko:	Albert Breier
Narodený (dátum a miesto):	14. 1. 1957
Akademické a vedecké hodnosti (titul a rok získania):	CSc. – 1987, DrSc. – 2002, doc. – 2008, prof. – 2018
Funkčné zaradenie:	profesor, riaditeľ ústavu
Pracovisko:	Ústav biochémie a mikrobiológie FCHPT STU
Priebeh zamestnania:	1981-1983 CFV SAV- študijný pobyt 1984-1986 CFV SAV- interná ašpirantúra 1986-1989 CFV SAV – vedúci Laboratória biotechnológie 1990-2007 ÚMFG SAV – vedúci Laboratória chémie proteínov (LCHP) 1992-1993 Ročný pobyt na "Department of Biochemistry, University of Alberta, Edmonton, Alberta" v Kanade na základe štipendia od "Alberta Heritage Foundation for Medical Research" 1996-1998 ÚMFG SAV – zástupca riaditeľa 1996-1997 Trojmesačný pobyt na "Department of Experimental Cardiology, Max-Planck-Institute, Bad Nauheim" v Nemecku 1998-2009 ÚMFG SAV – riaditeľ 2009-2013 SAV – podpredseda 2013- Ústav molekulárnej fiziológie a genetiky SAV – Vedúci vedecký pracovník na čiastočný úvazok. 2013-2016 Ústav biochémie, výživy a ochrany zdravia FCHPT STU – Riaditeľ ústavu 2016- Ústav biochémie a mikrobiológie FCHPT STU – Riaditeľ ústavu

1) Prehľad pedagogickej činnosti v členení:

**1.1 Prednášky (predmet, obdobie – akademické roky od-do, rozsah – počet semestrov a počet hodín
týždenne)**

PriF UK

2003-2007 –Bunková signalizácia – prednáška Letný semester 2 h týždenne;

FCHPT STU

2005-2009 –Membránové javy, kod: 42693_4l, zimný semester 2 h týždenne;

2010 doteraz –Bioenergetika buniek a organizmov, 6 prednášok, semester zimný, 2 h týždenné;

2014 doteraz –Mechanizmy účinku biologicky aktívnych látok, kód: 426M3_4l, semester zimný,
2h týženne;

2014	doteraz	– Mechanizmy účinku biologicky aktívnych látok, kód: N400M2_4D
2016	doteraz	–Princípy a metodológia moleku-lárnej medicíny, kód: N426P2_4I, semester letný, 2 h týždenne;
2016	doteraz	–Základy normálnej a patologickej fyziológie človeka, kód: N426Z0_4I, semester letný, 2 h týždenne;
2018	doteraz	–Biochémia, kód: 443B0_4D
2020	doteraz	–Vývoj liečiv, kód: N426V0_4B, semester letný, 2 h týždenne, 6 prednášok v semestri;
2021	doteraz	–Génová terapia a biologické liečivá, kód: N426G0_4B, semester letný, 2 h týždenne, 6 prednášok v semestri;
1.	2 Semináre a laboratórne cvičenia (predmet, obdobie – akademické roky od-do, rozsah – počet semestrov a počet hodín týždenne)	
2016	doteraz	–Stratégia biomedicínskych experimentov, kód: N426S3_4I, Semester zimný, 2 h týždenne;
2016	doteraz	–Využitie informačných zdrojov v biologickom výskume, kód: N426V0_4I, semester letný, 2 h týždenne.
2021	doteraz	– Génová terapia a biologické liečivá, kód: N426G0_4B, semester letný, 1 h týždenne;
1.3 Vedenie doktorandov resp. aspirantov:		
– počet vyškolených:		11
– počet súčasne školených:		2
1.4 Vedenie záverečných diplomových prác - počet:		10
1.5 Vedenie záverečných bakalárskych prác - počet:		2
1.6 Vedenie študentov v rámci ŠVOČ (počet, príp. umiestnenie vo fakultnom, resp. bývalom celoštátnom kole): 1		
1.7 VŠ učebnice (kategória ACA, ACB, ACC a ACD) - počet:		1

2) Prehľad vedeckovýskumnej činnosti v členení:

2.1 Zoznam publikácií a iných výstupov z vedeckovýskumnej činnosti spracovaný v členení podľa Vyhlášky č. 456/2012 MŠVVaŠ o centrálnom registri evidencie publikačnej činnosti a centrálnom registri evidencie umeleckej činnosti. Pri všetkých kolektívnych prácach uviesť podiel uchádzača v percentoch.

Nakoľko autorský zákon Zákon č. 185/2015 Z. z. v § 15 o spoluautorstve ustanovil, že Práva k dielu patria všetkým spoluautorom spoločne a nerozdielne, ak sa spoluautori nedohodli písomne inak a podľa mojich vedomostí k takejto písomnej dohode nedošlo, považujem za korektné ak sa podieľajú všetkých publikácií rozdiela rovnomerne všetkým autorom.

Monografie (kategória V1 AAB)

- Breier, A., – Gibalova, L., – Seres, M., – Barancík, M., – Sulová, Z.: *P-glycoprotein mediated multidrug resistance of cancer tissue: Implication for cancer chemotherapy*. Bratislava: PETRUS Publisher, 93 s, 2012, ISBN 978-80-89233-55-7. Rozsah: 3,75 AH.

Vysokoškolské učebnice (kategória P1 ACB)

- Breier, A., – Barteková, M., – Lakatoš, B., – Mihalov, J., – Varečka, Ľ. *Princípy molekulárnej medicíny*, Vydavateľstvo FCHPT STU. ISBN 978-80-89597-60-4 EAN 9788089597604

Kapitoly vo vedeckých monografiách (Kategória V2 ABC)

- Gemeiner, P., – Breier, A., – Beneš, M.J. *Beaded cellulose and its derivatives in enzyme engineering. Recent development*. In: *Progress in Biotechnology Vol 4 Interbiotech '87 Enzyme*

- Technologies (Blažej A Zemek J, eds) pp 261-274, Elsevier Amsterdam 1988, ISBN 9780444424358. Rozsah: 1,07 AH.
2. Breier, A., – Sulova, Z., – Kopáček, J. *ABC transportéry : funkcie a význam v normálnej a patologickej fyziológií*. In: Biomembrány : Štruktúra a dynamika membrán vo vzťahu k bunkovým funkciám (Lacinova, L. ed.). Bratislava: PETRUS Publisher, 2010. 286 p. ISBN 978-80-89233-46-5. Rozsah: 1,14 AH.
 3. Sulova, – Z., Brtko, – J., Macejová, – D., Breier, – A. *Are Nuclear Receptors for Retinoids Involved in the Control of the Expression and Activity of P-Glycoprotein?* In: Retinoic Acid: Structure, Mechanisms and Roles in Disease (Cheng, L.H., It, Y. eds.) NOVA Publisher, 2012 pp. 29-52. ISBN 978-1-62100-597-1, Rozsah : 2,13 AH.
 4. Breier, A., – Imrichova, D., – Paulikova, H., – Barancik, M., – Sulova, Z. *Vincristine as an inductor of drug resistance marker expression in neoplastic cells*. In: Vincristine: Clinical Uses, Pharmacokinetics and Impacts on Health, (Coello, J. M.; Sabres, Y. D., eds.) NOVA Science Publishers, 2013, pp 1-31; Vincristine as an inductor of drug resistance marker expression in neoplastic cells. Rozsah : 1,93 AH.
 5. Messingerova, L., – Imrichova, D., – Cocolova, M., – Zelina, M., – Pavlikova, P., – Kavcova, H., – Seres, M., – Bohacova, V., – Lakatos, B., – Sulova, Z., – Breier A. *Different Mechanisms of Drug Resistance in Myelodysplastic Syndromes and Acute Myeloid Leukemia*. In: Myelodysplastic Syndromes (Fuchs, O. ed). InTech – open science | open minds, 2016, pp 181-200, ISBN 978-953-51-2586-0, DOI: 10.5772/63483, Rozsah: 1,58 AH.

Publikácie v zahraničných časopisoch s IF podľa JCR (V3 ADC/ADM)

1. Gemeiner, P., – Breier, A. *Aldehydic derivatives of bead cellulose - Relationship between the matrix structure and function in immobilization of enzymes catalyzing hydrolysis of high molecular substrates*. Biotechnol. Bioeng. ISSN 1097-0290, 1982, no. 11, vol. 24, p. 2573-2583, (IF 3.648).
2. Breier, A., – Gemeiner, P., – Drobnica, L., – Marko, V. *Selective chemisorbents. Part 3: Selective binding of thiols to benzaldehyde derivatives of cellulose*. Reactive Polymers, Ion Exchangers, Sorbents. ISSN 0167-6989 1984, vol. 2, no 3, p. 189-196, (IF 2.505).
3. Breier, A., – Ziegelhöffer, A., – Gemeiner, P. *Simple estimation of carrier binding capacity using sorption kinetics curve-fitting*. J. Biochem. Biophys. Methods, ISSN 0165-022X, 1984, vol. 9, no 3, p. 267-275, (IF 1.808).
4. Breier, A., – Gemeiner, P., – Ziegelhöffer, A., – Monošíková, R., – Sedláková, – E. *Quantitative criterion for evaluation of hydrophobic sorbents*. Journal of Chromatography B: Biomedical Sciences and Applications, ISSN 1570-0232, 1986, vol. 376, p. 95-101, (IF 2.487).
5. Gemeiner, P., – Polák, C., – Breier, A., – Petruš, L., – Beneš, M.J. *Size-exclusion effect of a substrate upon kinetics of trypsin immobilized on porous bead cellulose. 1. Influence of distribution coefficient of a substrate*. Enzyme. Microb. Technol. ISSN 0141-0229, 1987, vol. 8 no 2, p. 109-114, (IF 2.592).
6. Ziegelhöffer, A., – Vrbjar, N., – Breier, A. *How do the ATPase in cardiac cell membranes work?* Biomed Biochim Acta ISSN 0232-766X, 1986, vol. 45, no 1-2 (1986) S211-S214. (prestal vychadzať v 90 rokoch).
7. Gemeiner, P., – Barteltová, L., – Šoltés, L., – Breier, A. *Size-exclusion effect of a substrate upon kinetics of trypsin immobilized on porous bead cellulose. 2. Influence of hydrodynamic diameter of substrate*. Enzyme. Microb. Technol. ISSN 0141-0229, 1987, vol. 9, no. 1, p. 44-46, (IF 2.592).
8. Ziegelhöffer, A., – Breier, A., – Monošíková, R., Džurba, A. *Some properties of the active site and cation binding site of heart sarcolemmal (Na + K)-ATPase*. Biomed. Biochim. Acta ISSN 0232-766X, 1987, vol. 46, no 8-9, p. 553-556. (prestal vychadzať v 90 rokoch).

9. Breier, A., – Gemeiner, P., – Ziegelhöffer, A., – Turi Nagy, L., – Štofaníková, V. *Application of a time-concentration model of adsorption for determination of the nature of adsorbent-adsorbate interaction.* Colloid. Polymer. Sci. ISSN 0303-402X, 1987, vol. 256, no. 10, p. 933-937 (IF 2,161).
10. Mislovičová, D., – Gemeiner, P., Breier, A. *Study of porous celluloses beads as an affinity adsorbent via quantitative measurement of interaction of lactatedehydrogenase with immobilized anthraquinone dyes.* Enzyme Microb Technol ISSN 0141-0229 1988, vol. 10, no. 9,(1988) 568-573 (IF 2.592).
11. Breier, A., – Turi Nagy, L., – Ziegelhöffer, A., – Monošíková, R. – *Principles of selectivity of sodium and potassium binding sites of the Na/K-ATPase. A corollary hypothesis.* Biochimica et Biophysica Acta (BBA) – Biomembranes, ISSN 0005-27361988, vol. 946, no. 8, p. 129-134. (IF₂₀₁₂= 3.389).
12. Gemeiner, P., – Breier, A., – Mlýnek, J. *Adsorption of perphenazine and serum albumin onto hydrophobic cellulose beads. Partitioning in the adsorption and hydrophobicity of the adsorbent.* Cellul. Chem. Technol. ISSN-L 0576-9787, 1990, vol. 24, no. 1, p. 55-64 (IF 0.825).
13. Breier, A., – Ďurišová, V., Stankovičová, T., Mislovičová, D., Gemeiner, P. *Application of adsorption kinetics for estimation of dissociation constants.* J Biochem Biophys Methods ISSN 0165-022X, 1991, vol. 22 no. 3, 185-193, (IF1.808).
14. Džurba, A., – Ziegelhöffer, A., – Breier, A., – Vrbjar, N., Szekeres, L. *Increased activity of sarcolemmal (Na+K)-ATPase activity is involved in the late cardioprotective action of 7-OXO-prostacyclin.* Cardioscience ISSN 1015-50071991, vol. 2, no. 2, p. 105-108 (Prestal vychádzat v roku 1995).
15. Žúbor, V., – Breier, A., – Horváthová, M., – Hagarová, D., – Gemeiner, P., Mislovičová, D. *Purification of Glycerol Kinase by "Dye-Ligand" Chromatography and Hydrophobic Interaction Chromatography on Bead-Cellulose Derivatives.* Coll. Czech. Chem. Commun. ISSN 0010-0765, 1993, vol. 58, no. 2, p. 445-451, (IF 1.000).
16. Barančík, M., – Poleková, L., – Mrázová, T., – Breier, A., – Stankovičová, T., – Slezák, J. *Reversal effect of several Ca²⁺-entry blockers, neuroleptics and local anaesthetics on P-glycoprotein - mediated vincristine resistance of L1210/VCR mouse leukaemia cell line.* Drugs Exptl. Clin. Res. ISSN 0378-6501, 1994, vol. 20, no. 1, p. 13-18, (IF₂₀₀₅1.152).
17. Breier, A., – Michalak, M. *2,4,6-trinitrobenzene sulfonic acid modification of the carboxyl-terminal (C-domain) of calreticulin.* Mol. Cel. Biochem. ISSN: 0300-8177, 1994, vol. 130, no. 1, p. 19-28, (IF 2.329).
18. Breier, A., – Hagarová, D., – Gemeiner, P., Ziegelhöffer, A. *Estimation of the effective hydrophobicity of proteins: Reevaluation of methods.* Biotechnology Techniques ISSN: 0951-208X, 1994, vol. 8, no. 12, p. 915-920, (IF 0.697).
19. Stankovičová, T., – Zemková, H., – Breier, A., – Amher, E., – Burkhard, M., – Vyskočil, F. *The effect of calcium and calcium channel blockers on sodium pump.* Pflügers Arch. ISSN 0031-6768, 1995, vol. 429, no. 5, p. 716-721. (IF 4.866).
20. Ziegelhöffer, A., – Vrbjar, N., – Styk, J., – Breier, A., – Džurba, A., – Ravingerová, T. *Adaptation of the heart to the ischemia and preconditioning: Effect on energy equilibrium, properties of sarcolemmal ATPases and release of cardioprotective proteins.* Mol. Cell. Biochem. ISSN 0300-8177, 1995, vol. 147 no 1-2, p. 129-137. (IF 2.329).
21. Breier, A., – Ziegelhöffer, A., – Stankovičová, T., – Dočolomanský, P., – Gemeiner, P., – Vrbanová, A. – *Inhibition of (Na/K)-ATPase by electrophilic substances: Functional implications.* Mol. Cell. Biochem. ISSN 0300-8177, 1995, vol. 147, no. 1-2, p. 187-192 (IF 2.329).
22. Dočolomanský, P., – Breier, A., – Gemeiner, P., – Ziegelhöffer, A. *Screening of binding properties of Con-A immobilized on bead cellulose by flow microcalorimetry using invertase and anti-Con-A antibody as reporting systems.* Analytical Letters ISSN 0003-2719, 1995, vol. 28, no. 15, p. 2585-2594 (IF 0.965).

23. Breier, A., – Ziegelhöffer, A., – Famulsky, K., – Michalak, M., – Slezák, J. *Is cysteine residue important in FITC-sensitive ATP-binding site of P-type ATPases? A commentary to the state of the art.* Mol.Cell.Biochem., ISSN 0300-8177, 1996, vol. 160/161, p. 89-93. (IF 2.329).
24. Ziegelhöffer, A., – Ravingerová, T., – Styk, J., – Tribulová, N., – Volkovová, K., – Šeboková, J., – Breier, A. *Diabetic cardiomyopathy in rats: biochemical mechanisms of increased tolerance to calcium overload.* Diabetes Research and Clinical Practice. ISSN 0168-8227 1996, vol. 31, no. Suppl., p. S93-S103 (IF 2.741).
25. Ziegelhöffer, A., – Ravingerová, T., – Džurba, A., – Tribulová, N., – Slezák, J., – Breier, A., – Szekeres, L. *Prevention by 7-oxo-prostacyclin of the calcium paradox in rat heart: Role of the sarcolemmal (Na,K)-ATPase.* Mol. Cell. Biochem. ISSN 0300-8177, 1996, vol. 160/161, p. 257-263. (IF 2.329).
26. Ziegelhöffer, A., – Ravingerová, T., – Styk, J., – Šeboková, J., – Waczulíková, I., – Breier, A., – Džurba, A., – Volkovová, K., – Čársky, J., – Turecký, L. *Mechanisms that may be involved in calcium tolerance of diabetic heart.* Mol. Cell. Biochem. ISSN 0300-8177, 1997, vol. 176, no. 1-2, p. 191-197 (IF 2.329).
27. Boháčová, V., – Dočolomanský, P., – Breier, A., – Gemeiner, P., – Ziegelhöffer, A. *Interaction of lactate dehydrogenase with anthraquinone dyes — characterization of ligands for dye-ligand chromatography.* Journal of Chromatography B: Biomedical Sciences and Applications, ISSN 1570-0232715, 1998, vol. 715, no. 1, p. 273-283 (IF 2.487).
28. Kubin, T., – Hiroshi, A., Sholtz, D., Bramlage, P., Kostin, S., Van Veen, A., Heling, A., Hein, S., Fischer, S., Breier, A., Schaper, J., Schaper, W. *Microvascular endothelial cells remodel cultured adult cardiomyocytes and increase their survival.* Am. J. Physiol. ISSN 0002-9513, 1999, Vol. 276, no. 6, H2179-H2187 (IF 3.629).
29. Boháčová, V., – Kvačkajová, J., – Barančík, M., – Drobná, Z., – Breier, A. *Glutathione S-transferase does not play a role in multidrug resistance of L1210/VCR cell line.* Physiol. Res. 2000, vol. 49, no. 4, p. 447-453 (IF 1.531).
30. Barancik, M., – Bohacova, V., – Kvackajova, J., – Hudecova, S., – Krizanova, O., Breier, A. *SB203580, a specific inhibitor of p38-MAPK pathway, is a new reversal agent of P-glycoprotein-mediated multidrug resistance.* Eur. J. Pharm. Sci. ISSN 0928-09872001, 2001, vol. 14, no. 1, p. 29-36. (IF 2.987).
31. Fiala, R., – Sulova, Z., El-Saggan, A.H., Uhrik, B., Liptaj, T., Dovinova, I., Hanusovska, E., Drobna, Z., Barancik, M., Breier, A. *P-glycoprotein-mediated multidrug resistance phenotype of L1210/VCR cells is associated with decreases of oligo- and/or polysaccharide contents.* Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease. ISSN 0925-4439, 2003, vol. 1639, no. 3, p. 213-224 (IF 4.910).
32. Kupsakova, I., – Rybar, A., – Docolomansky, P., – Drobna, Z., – Stein, U., Walther, W., – Barancik, M., Breier, A. *Reversal of P-glycoprotein mediated vincristine resistance of L1210/VCR cells by analogues of pentoxifylline. A QSAR study.* Eur. J. Pharm. Sci. ISSN 0928-09872001, 2004, vol. 21, no. 2-3, p. 283-293 (IF 2.987).
33. Sulova, Z., – Orlicky, J., – Fiala, R., – Dovinova, I., – Uhrik, B., – Seres, M., – Gibalova, L., – Breier, A. *Expression of P-glycoprotein in L1210 cells is linked with rise in sensitivity to Ca²⁺.* Biochem. Biophys. Res. Commun. ISSN 0006-291X, 2005, vol. 335, no. 3, p. 777-784 (IF 2.406).
34. Breier, A., – Barancik, M., – Sulova, Z., – Uhrik, B. *P-glycoprotein--implications of metabolism of neoplastic cells and cancer therapy.* Curr. Cancer Drug Targets. ISSN 1568-0096, 2005, vol. 5, no. 6, p. 457-468 (IF 4.000).
35. Boháčová, V., – Sulová, Z., – Dovinová, I., – Poláková, E., – Barančík, M., – Uhrík B., – Orlický, J., – Breier, A. *L1210 Cells Cultivated under Selection Pressure of Doxorubicin or Vicristine Express*

- Common Mechanism of Multidrug Resistance Based on Overexpression of P-Glycoprotein.* Toxicology in Vitro. ISSN 0887-2333, 2006, vol. 20, no. 8, p. 1560-1568, (IF 2.903).
36. Barancik, M., – Bohacova, V., – Sedlak, J., – Sulova, Z., – Breier, A. *LY294,002, a specific inhibitor of PI3K/Akt kinase pathway, antagonizes P-glycoprotein-mediated multisrug resistance.* Eur. J. Pharm. Sci. ISSN 0928-09872001, 2006, vol. 29, no. 5, p. 426-434(IF 2.987).
37. Malekova, L., – Tomaskova, J., – Novakova, M., – Stefanik, P., – Kopacek, J., – Lakatos, B., – Pastorekova, S., – Krizanova, O., – Breier, A., – Ondrias, K. *Inhibitory effect of DIDS, NPPB, and phloretin on intracellular chloride channels.* Pflugers Arch. ISSN 0031-6768, 2007, vol. 455, no. 2, p. 349-57. (IF 4.866).
38. Hudecova, S., – Kubovcakova, L., – Kvetnansky, R., – Kopacek, J., – Pastorekova, S., – Novakova, M., – Knezl, V., – Tarabova, B., – Lacinova, L., – Sulova, Z., – Breier, A., Jurkovičová D., – Križanová O. *Modulation of expression of Na⁺/Ca²⁺ exchanger in heart of rat and mouse under stress.* Acta Physiol. (Oxf). ISSN 1748-1708, 2007, vol. 190, no. 2, p. 127-36 (IF2012=4.382).
39. Sulová, Z., – Macejová, D., – Sereš, M., – Sedláček, J., – Brtko, J., – Breier, A. *Combined treatment of P-gp-positive L1210/VCR cells by verapamil and all-trans retinoic acid induces down-regulation of P-glycoprotein expression and transport activity.* Toxicol. in Vitro. ISSN 0887-2333, 2008, vol. 22, no. 1, 96-105 (IF 2.903).
40. Ondrias, K., – Stasko, A., – Cacanyiova, S., – Sulova, Z., – Krizanova, O., – Kristek, F., – Malekova, L., – Knezl, V., – Breier, A. *H(2)S and HS(-) donor NaHS releases nitric oxide from nitrosothiols, metal nitrosyl complex, brain homogenate and murine L1210 leukaemia cells.* Pflugers Arch. ISSN 0031-6768, 2008, vol. 457, no. 2, p. 271-9 (IF 4.866).
41. Sulová, Z., – Mislovicová, D., – Gibalová, L., – Vajcnerová, Z., – Poláková, E., – Uhrík, B., – Tylková, L., – Kovarova, A., – Sedláček, J., – Breier, A. *Vincristine-induced overexpression of P-glycoprotein in L1210 cells is associated with remodeling of cell surface saccharides.* J. Proteome Res. ISSN 1535-3893, 2009, vol. 8, no. 2, p. 513-20 (IF 5.056).
42. Barteková, M., – Carnická, S., – Pancza, D., – Ondrejcáková, M., – Breier, A., – Ravingerová, T. *Acute treatment with polyphenol quercetin improves postischemic recovery of isolated perfused rat hearts after global ischemia.* Can. J. Physiol. Pharmacol. ISSN 0008-4212, 2010, vol. 88, no. 4, p. 465-471 (IF 1.556).
43. Sulová, Z., – Ditte, P., – Kurucová, T., – Poláková, E., – Rogozanová, K., – Gibalová, L., – Seres, M., – Skvarková, L., – Sedláček, J., – Pastorek, J., – Breier, A. *The presence of P-glycoprotein in L1210 cells directly induces down-regulation of cell surface saccharide targets of concanavalin A.* Anticancer Res. ISSN 0250-7005, 2010, vol. 30, no. 9, p. 3661-3668 (IF 1.713).
44. Mezesova, L., – Bartekova, M., – Javorkova, V., – Vlkovicova, J., – Breier, A., – Vrbjar, N. *Effect of quercetin on kinetic properties of renal Na,K-ATPase in normotensive and hypertensive rats.* J. Physiol. Pharmacol. ISSN 0867-5910, 2010, vol. 61, no. 5, p. 593-598. (IF 2.476).
45. Seres, M., – Cholujová, D., – Bubenčíkova, T., – Breier, A., – Sulová, Z. *Tunicamycin depresses p-glycoprotein glycosylation without an effect on its membrane localization and drug efflux activity in L1210 cells.* Int. J. Mol. Sci. ISSN 1422-0067, 2011, vol. 12, no. 11, o. 7772-7784 (IF 2.464).
46. Barancik, M., – Bohacova, V., – Gibalova, L., – Sedlak, J., – Sulova, Z., – Breier, A. *Potentiation of Anticancer Drugs: Effects of Pentoxifylline on Neoplastic Cells.* Int. J. Mol. Sci. ISSN 1422-0067, 2012, vol. 13, no. 1, p. 369-382 (IF 2.464).
47. Gibalová, L., – Sereš, M., – Rusnák, A., – Ditte, P., – Labudová, M., – Uhrík, B., – Pastorek, J., – Sedláček, J., – Breier, A., – Sulová, Z. *P-glycoprotein depresses cisplatin sensitivity in L1210 cells by inhibiting cisplatin-induced caspase-3 activation.* Toxicol. in Vitro. ISSN 0887-2333, 2012, vol. 26, no. 3, p. 435-444 (IF 2.903).
48. Bubencíkova, T., – Cholujová, D., – Messingerová, L., – Mislovicova, D., – Seres, M., – Breier, A., – Sulová, Z. *Detection of glycomic alterations induced by overexpression of p-glycoprotein on the*

- surfaces of L1210 cells using sialic Acid binding lectins.* Int. J. Mol. Sci. ISSN 1422-0067, 2012, vol. 13, no 11, p. 15177-15192 (IF 2.464).
49. Breier, A., – Gibalova, L., – Seres, M., – Barancik, M., – Sulova, Z. *New insight into p-glycoprotein as a drug target.* Anti-cancer Agents Med. Chem. ISSN 1871-5206, 2013, vol. 13, no. 1, 159-170.(IF 2,939).
50. Turakova, K., – Pavlikova, L., – Messingerova, L., – Lakatos, B., – Breier, A., – Sulova, Z. *Reduced udp-glucose levels are associated with p-glycoprotein over-expression in L1210 cells and limit glucosylceramide synthase activity.* Anticancer Research ISSN 0250-7005, 2015, vol. 35, no. 5, p. 2627-2634, (IF 1,895).
51. Imrichova, D., – Messingerova, L., – Seres, M., – Kavcova, H., – Pavlikova, L., – Cocolova, M., – Breier, A., – Sulova, Z. *Selection of resistant acute myeloid leukemia SKM-1 and MOLM-13 cells by vincristine-, mitoxantrone- and lenalidomide-induced upregulation of P-glycoprotein activity and downregulation of CD33 cell surface exposure.* Eur. J. Pharm. Sci. ISSN 0928-09872001, 2015, vol. 77, p. 29-39 (IF 3,773).
52. Messingerova, L., – Imrichova, D., – Kavcova, H., – Turakova, K., – Breier, A., – Sulova, Z. *Acute myeloid leukemia cells MOLM-13 and SKM-1 established for resistance by azacytidine are crossresistant to P-glycoprotein substrates.* Toxicol. in Vitro. ISSN 0887-2333, 2015, vol. 29, no. 7, p. 1405-15 (IF 3,338).
53. Bartekova, M., – Barancik, M., – Pokusa, M., – Prokopova, B., – Radosinska, J., – Rusnak, A., – Breier, A., Jezova, D. *Molecular changes induced by repeated restraint stress in the heart: the effect of oxytocin receptor antagonist atosiban.* Can. J. Physiol. Pharmacol. ISSN 0008-42122010, 2015, vol. 93, no. 9, p. 827-34. (IF 1,704).
54. Messingerova, L., – Imrichova, D., – Kavcova, H., – Seres, M., – Sulova, Z., – Breier, A. *A decrease in cellular microRNA-27a content is involved in azacytidine-induced P-glycoprotein expression in SKM-1 cells.* Toxicol. in Vitro. ISSN 0887-2333, 2016, vol. 36, p. 81-88. (IF 3,338).
55. Cocolova, M., – Imrichova, D., – Seres, M., – Messingerova, L., – Bohacova, V., – Sulova, Z., – Breier, A. *The expression of P-glycoprotein in leukemia cells is associated with the upregulated expression of nestin, a class 6 filament protein.* Leuk. Res. ISSN 0145-2126, 2016, vol. 48, p. 32-39. (IF 2,606).
56. Pavlikova, L., – Seres, M., – Hano, M., – Bohacova, V., – Sevcikova, I., – Kyca, T., – Breier, A., – Sulova Z. *L1210 cells overexpressing abcb1 drug transporters are resistant to inhibitors of the n- and o-glycosylation of proteins.* Molecules. 22 (2017) pii: E1104 (IF 3.098).
57. Hano, M., – Tomášová, L., – Šereš, M., – Pavlíková, L., – Breier, A., – Sulová, Z. *Interplay between p-glycoprotein expression and resistance to endoplasmic reticulum stressors.* Molecules. 23 (2018) pii: E337. (IF 3.060)
58. Bohacova, V., – Seres, M., – Pavlikova, L., – Kontar, S., – Cagala, M., – Bobal, P., – Otevrel, J., – Brtko, J., – Sulova, Z., – Breier, A. *Triorganotin derivatives induce cell death effects on L1210 leukemia cells at submicromolar concentrations independently of p-glycoprotein expression.* Molecules. 23 (2018) pii: E1053 (IF 3.060)
59. Elefantova, K., – Lakatos, B., – Kubickova, J., – Sulova, Z., – Breier, A. *Detection of the mitochondrial membrane potential by the cationic dye jc-1 in L1210 cells with massive overexpression of the plasma membrane abcb1 drug transporter.* Int J Mol Sci. 2018 Jul 7;19(7). pii: E1985
60. Kubíčková, J., – Elefantová, K., – Pavlikova, P., – Cagala, M., – Šereš, M., – Šafář, P., – Marchalín, Š., – Ďurišová, K., – Boháčová, V., – Sulova, Z., – Lakatoš, B., – Breier, A., – Olejníková, P. *Screening of phenanthroquinolizidine alkaloid derivatives for inducing cell death of L1210 leukemia cells with negative and positive p-glycoprotein expression.* Molecules 2019, 24(11), 212 (IF 3.098)

61. Šereš, M., – Pavlíková, L., – Boháčová, V., – Kyca, T., – Borovská, I., – Lakatoš, B., – Breier, A., – Sulová, Z. *Overexpression of grp78/bip in p-glycoprotein-positive L1210 cells is responsible for altered response of cells to tunicamycin as a stressor of the endoplasmic reticulum*. Cells 2020, 9(4), 890 (IF 5.656)
62. Kontar, S., – Imrichova, D., – Bertova, A., – Mackova, K., – Poturnayova, A., – Sulova, Z., – Breier A. *Cell death effects induced by sulforaphane and allyl isothiocyanate on p-glycoprotein positive and negative variants in L1210 cells*. Molecules 2020, 25(9), 2093. (IF 3.098).
63. Cagala, M., – Pavlikova, L., – Seres, M., – Kadlecikova, K., – Breier, A., – Sulova, Z. *Development of resistance to endoplasmic reticulum stress-inducing agents in mouse leukemic L1210 cells*. Molecules 2020, 25(11), 2517. (IF 3.098).
64. Janotka, L., – Messingerová, L., – Šimoničová, K., – Kavcová, H., – Elefantová, K., – Sulová, Z., – Breier, A., *Changes in Apoptotic Pathways in MOLM-13 Cell Lines after Induction of Resistance to Hypomethylating Agents*. Int. J. Mol. Sci. 2021, 22(4) 2076. (IF 5.923)
65. Rosenbergová, Z., – Kántorová, K., – Šimkovič, M., – Breier, A., – Rebroš, M., *Optimisation of Recombinant Myrosinase Production in Pichia pastoris*. Int. J. Mol. Sci. 2021, 22(7), 3677. (IF 5.923)
66. Kyca, T., – Pavlíková, L., – Boháčová, V., – Mišák, A., – Poturnayová, A., – Breier, A., – Sulová, Z., – Šereš, M. *Insight into Bortezomib Focusing on Its Efficacy against P-gp-Positive MDR Leukemia Cells*. Internat. J. Mol. Sciences. 2021, 22(11), 5504. (IF 5.923)
67. Kocibalova, Z., – Guzyova, M., – Borovska, I., – Messingerova, L., – Copakova, L., – Sulova, Z., – Breier, A. *Development of Multidrug Resistance in Acute Myeloid Leukemia Is Associated with Alterations of the LPHN1/GAL-9/TIM-3 Signaling Pathway*. Cancers. 2021, 13(14), 3629. (IF 6.639)
68. Pavlikova, L., – Seres, M., – Breier, A., – Sulova, Z. *The Roles of microRNAs in Cancer Multidrug Resistance*. Cancers. 2022, 14(4), 1090 (IF 6.575)
69. Simonicova, K., – Janotka, L., – Kavcova, H., – Sulova, Z., – Breier, A., – Messingerova, L. *Different mechanisms of drug resistance to hypomethylating agents in the treatment of myelodysplastic syndromes and acute myeloid leukemia*. Drug Resistance Updates 2022, 61, 100805 (IF 22.841)
70. Galadova, H., – Polozsanyi, Z., – Breier, A., – Simkovic, M. *Sulforaphane Affinity-Based Chromatography for the Purification of Myrosinase from Lepidium sativum Seeds*. Biomolecules 2022, 12(3), 406 (IF 6.064)
71. Bertova, A., – Kontar, S., – Polozsanyi, Z., – Simkovic, M., – Rosenbergova, Z., – Rebros, M., – Sulova, Z., – Breier, A., – Imrichova, D. *Effects of Sulforaphane-Induced Cell Death upon Repeated Passage of Either P-Glycoprotein-Negative or P-Glycoprotein-Positive L1210 Cell Variants*. International Journal of Molecular Sciences 2022, 23(18), 10818 (IF 6.208)

Publikácie v domácich časopisoch s IF podľa JCR (V3 ADD/ADN).

1. Ziegelhöffer, A., – Breier, A., – Džurba, A., – Vrbjar, N. *Selective and reversible inhibition of heart sarcolemmal (Na + K)-ATPase by p-bromophenylisothiocyanate. Evidence for a sulfhydryl group in the ATP-binding site of the enzyme*. Gen. Physiol. Biophys. ISSN 1338-4325, 1983, vol. 2, no. 6, p. 447-456 (IF 0.852).
2. Džurba, A., – Ziegelhöffer, A., – Schmidlová, L., Breier, A., Vrbjar, N., Okoličný, J. *Exaprolol as a modulator of heart sarcolemmal (Na + K)-ATPase. Evidence for interaction with an essential sulfhydryl group in catalytic centre of the enzyme*. Gen. Physiol. Biophys. ISSN 1338-4325, 1985, vol. 4, no. 3, p. 257-263 (IF 0.852).
3. Vrbjar, N., – Ziegelhöffer, A., – Breier, A., – Soos, J., – Džurba, A., – Monošíková, R. *Quantitative relationship between the protein secondary structure in cardiac sarcolemmal and the activity of the membrane-bound Ca(2+)-ATPase*. Gen. Physiol. Biophys. ISSN 1338-4325, 1985, vol. 4, no. 4, p. 414-416. (IF 0.852).

4. Breier, A., – Gemeiner, P., – Beneš, M.J. *Effect of the concentration of 5,5'-dithiobis(2-nitrobenzoic acid) on parameters of the kinetic of its chemisorption on thioderivatives of cellulose*. Coll. Czech. Chem. Commun. ISSN 0010-0765, 1986, vol. 51, no. 3, p. 545-552. (IF 1.000).
5. Breier, A., – Monošíková, R., – Ziegelhöffer, A., Džurba, A. *Heart sarcolemma (Na + K)-ATPase has an essential amino group in the potassium binding site on the enzyme molecule*. Gen. Physiol. Biophys. ISSN 1338-4325, 1986, vol. 5, no. 5, p. 537-554. (IF 0.852).
6. Vrbjar, N., – Breier, A., – Ziegelhöffer, A., – Džurba, A., Soos, J. *Effect of calcium on the structure-function relationship of (Na+K)-ATPase in cardiac sacrolemma*. Gen. Physiol. Biophys. ISSN 1338-4325, 1986, vol. 5, no. 5, p. 545-550. (IF 0.852).
7. Breier, A., – Monošíková, R., – Ziegelhöffer, A. *Modification of primary amino group in rat heart sarcolemma by 2,4,6-trinitrobenzenesulphonic acid in respect to the activities of (Na+K)-ATPase, Na-ATPase, and K-pNPPase. Function of the potassium binding sites*. Gen. Physiol. Biophys. ISSN 1338-4325, 1987, vol. 6 no. 1, p. 103-108. (IF 0.852).
8. Monošíková, R., – Ziegelhöffer, A., – Breier, A. *Alteration of ATP with the active sites of ATPases in heart sacrolemma. Role of hydroxylic group in position two on the ribose moiety*. Gen. Physiol. Biophys. ISSN 1338-4325, 1987, vol. 6, no. 2, p. 193-196. (IF 0.852).
9. Breier, A., – Turi Nagy, L., – Monošíková, R., – Ziegelhöffer, A., Džurba, A. *Hypothetical structure of the ATP-binding site of (Na+K)-ATPase*. Gen. Physiol. Biophys. ISSN 1338-4325, 1989, vpl. 8, no. 3, p. 283-286. (IF 0.852).
10. Gemeiner, P., – Hrabárová, E., – Zacharová, M., – Beneš, M. J., – Breier, A. *Partition mechanism of adsorption and absence of displacement phenomena in the zonal analytical chromatography of proteins on bead 2-hydroxy-3-phenoxypropyl-cellulose*. Coll. Czech. Chem. Commun. ISSN 0010-0765, 1989, vol. 54, no. 9, p. 2375-2385. (IF 1,000).
11. Breier, A., – Stankovičová, T., – Ziegelhöffer, A., – Ďurišová, V., – Slezák, J. *Fast methods for estimation of the effect of compounds modulating of the radical oxidation of sulphydryl group on 4-mercapto-2-nitrobenzoic acid applied as a model substance*. Chem. Zvesti (Chem. Paper) ISSN 0366-6352, 1989, vol. 43, no. 4, p. 553-559. (IF 0,409).
12. Ďurišová, V., – Urbanová, A., – Ziegelhöffer, A., Breier, A. *Interaction of Cibacron Blue F3G-A and Remazol Brilliant Blue R with the Nucleotide Binding Site of Lactate Dehydrogenase and Na,K-ATPase*. Gen. Physiol. Biophys. ISSN 1338-4325, 1990, vol. 9, no. 5, p. 519-528 (IF 0.852).
13. Hagarová, D., – Horváthová, M., – Žúbor, V., – Breier, A. *Optimization of conditions for size-exclusion chromatography of proteins*. Chem. Zvesti (Chem.Papers) ISSN 0366-6352, 1991, vol. 45, no. 3, p. 341-348. (IF 0,409).
14. Gemeiner, P., – Kochjarová, H., – Horváthová, M., – Breier, A. *Hydrophobic Partitioning of Proteins in a Two-Phase Aqueous System of Poly(oxyethylene)-Dextran Alternatively Derivatized by 3-Phenoxy-2-Hydroxypropyl Group*. Collect. Czech. Chem. Commun. ISSN 0010-0765, 1991, vol. 56 no. 6, p. 1270-1278. (IF 1,000).
15. Formelová, J., – Breier, A., – Gemeiner, P., – Kurilová, I. *Trypsin entrappes within liposomes. Partition of low-molecular-mass substrate as the main factor in kinetic control of hydrolysis*. Coll. Czech. Chem. Commun. ISSN 0010-0765, 1991, vol. 56, no. 3, p. 712-717. (IF 1,000).
16. Poleková, L., – Barančík, M., – Mrázová, T., Pirker, R., Wallner, J., Sulová, Z., Breier, A. *Adaptation of mouse leukemia cells L1210 to vincristine. Evidence for expression of P-glycoprotein*. Neoplasma ISSN 0028-2685, 1992, vol. 39, no. 2, p. 73-77. (IF 0,822).
17. Barančík, M., – Dočolomanský, P., – Slezák, J., Breier, A. *Overcome resistance in L1210/VCR cells by several corticosteroids. Collateral sensitivity of resistant cells*. Neoplasma ISSN 0028-2685, 1993, vol. 40, no. 1, p. 21-25. (IF 0,822).

18. Uhrík, B., – Tribulová, N., – Klobušická, M., – Barančík, M., – Breier, A. *Characterization of morphological and histochemical changes induced by overexpression of P-glycoprotein in mouse leukemic cell line L1210*. Neoplasma ISSN 0028-2685, 1994, 41, no. 2, p. 83-88. (IF 0,822).
19. Breier, A., – Barančík, M., – Štefanková, Z., – Uhrík, B., Tribulová, N. *Effect of pentoxifylline on P-glycoprotein mediated vincristine resistance of L1210 mouse leukemic cell line*. Neoplasma ISSN 0028-2685, 1994, vol. 41, no. 5, p. 297-303. (IF 0,822).
20. Breier, A., – Štefanková, Z., – Barančík, M., – Tribulová, N. *Time dependence of H³-vincristine accumulation by L1210 mouse leukemic cells. Effect of P-glycoprotein overexpression*. Gen. Physiol. Biophys. ISSN 1338-4325, 1994, vol. 13 no. 4, p. 287-298. (IF 0,852).
21. Vrbanová, A., – Stankovičová, T., – Dočolomanský, P., – Štefko, I., Ziegelhoffner, A., Breier, A. *Inhibition of (Na/K)-ATPase by NFE induces an increase in mechanical activity of perfused Guinea-pig heart*. Gen. Physiol. Biophys. ISSN 1338-4325, 1994, vol. 13, no. 5, p. 433-441. (IF 0,852).
22. Breier, A., – Gemeiner, P., – Hagarová, D. *Partition mechanism of protein adsorption onto bead 2-hydroxy-3-propoxy propyl cellulose. Role of external surface of cellulose particles*. Chem. Papers ISSN 0366-6352, 1994, vol. 48, no. 3, p. 141-145. (IF 0,409).
23. Dočolomanský, P., – Boháčová, V., – Breier, A. *Interaction of anthraquinones with nucleotide binding site of Na⁺,K⁺-ATPase*. Chem. Papers ISSN 0366-6352, 1994, vol. 48, no. 2, p. 128-132 (IF 0,409).
24. Barančík, M., – Štefanková, Z., – Breier, A. *Effect of phorbol myristate acetate PMA on P-glycoprotein mediated vincristine resistance of L1210 cells*. Gen. Physiol. Biophys. ISSN 1338-4325, 1995, vol. 14, no. 2, p. 171-175. (IF 0,852).
25. Hagarová, D., – Breier, A. *Distribution of proteins in aqueous two-phase systems formed by dextran and polyethylene glycol. Influence of protein hydrophobicity*. Gen. Physiol. Biophys. ISSN 1338-4325, 1995, vol. 14, no. 4, p. 277-291. (IF 0,852).
26. Štefanková, Z., – Barančík, M., – Breier, A. *Overcoming of P-glycoprotein mediated vincristine resistance of L1210/VCR mouse leukemic cells could be induced by pentoxifylline but not by theophylline and caffeine*. Neoplasma ISSN 0028-2685, 1996, vol. 43, no. 1, p. 11-15. (IF 0,822).
27. Džurba, A., – Vrbjar, N., – Breier, A., – Ziegelhoffner, A. *The membrane effect of benfluron: Modulation of the heart sarcolemmal (Na,K)-ATPase and Mg-ATPase activities*. Gen. Physiol. Biophys. ISSN 1338-4325, 1996, vol. 15, no. 1, p. 71-75. (IF 0,852).
28. Breier, A., – Vrbanová, A., – Dočolomanský, P., – Boháčová, V., Ziegelhoffner, A. *Competitive Inhibition of (Na/K)-ATPase by Furylethylenes with Respect to Potassium Ions*. Gen. Physiol. Biophys. ISSN 1338-4325, 1996, vol. 15, no. 4, p. 1-17. (IF 0,852).
29. Breier, A., – Drobná, Z., – Barančík, M. *Direct interaction between verapamil and doxorubicin causes the lack of reversal effect of verapamil on P-glycoprotein mediated resistance to doxorubicin in vitro using L1210/VCR cells*. Neoplasma ISSN 0028-2685, 1998, vol. 45, no. 4, p. 248-253. (IF 0,822).
30. Breier, A., – Sulová, Z., – Vrbanová, A. *Ca²⁺-Induced inhibition of sodium pump: Noncompetitive inhibition in respect to magnesium and sodium cations*. Gen Physiol Biophys ISSN 1338-4325, 1998, vol. 17, no. 2, 179-188. (IF 0,852).
31. Sulová, Z., – Vyskočil, F., – Stankovičová, T., – Breier, A. *Ca²⁺-induced inhibition of sodium pump: Effect on energetic metabolism of mouse diaphragm tissue*. Gen Physiol Biophys ISSN 1338-4325, vol. 17, no. 3, p. 271-183. (IF 0,852).
32. Barančík, M., – Boháčová, V., – Zbýňovcová, M., – Breier, A. *Differential expression of regulatory proteins in L1210/VCR cells with multidrug resistance mediated by P-glycoprotein*. Gen Physiol. Biophys ISSN 1338-4325, 1999, vol. 18, no. 1, 45-56. (IF 0,852).
33. Breier, A., – Drobná, Z., – Dočolomanský, P., – Barančík, M. *Cytotoxic activity of several unrelated drugs on L1210 mouse leukemic cell sublines with P-glycoprotein (PGP) mediated multidrug*

- resistance (MDR) phenotype. A QSAR study.* Neoplasma ISSN 0028-2685, 2000, vol. 47, no. 2, p. 100-106, (IF 0.822).
- 34. Ziegelhöffer, A., – Kjeldsen, K., – Bundgaard, H., – Breier, A., – Vrbjar, N., Dzurba, A. *Na,K-ATPase in the myocardium: Molecular principles, functional and clinical aspects.* Gen Physiol Biophys ISSN 1338-4325, 2000, vol. 19, no. 1, 9-47. (IF 0.852).
 - 35. Breier, A., – Ziegelhöffer, A. „*Lysine is the Lord*“, thought some scientists in regard to the group interacting with fluorescein isothiocyanate in ATP-binding sites of P-type ATPases. But, is it not cysteine? Gen Physiol Biophys ISSN 1338-4325, 2000, vol. 19, no. 3, p. 253-263. (IF 0.852).
 - 36. Kvackajova-Kisucka, J., – Barancik, M., – Breier, A. *Drug transporters and their role in multidrug resistance of neoplastic cells.* Gen. Physiol. Biophys. ISSN 1338-4325, 2001, vol. 20, p. 3, 215-237. (IF 0.852).
 - 37. Kisucka, J., – Barancik, M., – Bohacova, V., – Breier, A. *Reversal effect of specific inhibitors of extracellular-signal regulated protein kinase pathway on p-glycoprotein mediated vincristine resistance of L1210 cells.* Gen. Physiol. Biophys. ISSN 1338-4325, 2001, vol. 20, no. 4, p. 439-444. (IF 0.852).
 - 38. Drobna, Z., – Stein, U., – Walther, M., – Barancik, M., – Breier, A. *Pentoxifylline influences drug transport activity of P-glycoprotein and decreases mdr1 gene expression in multidrug resistant mouse leukemic L1210/VCR cells.* Gen. Physiol. Biophys. ISSN 1338-4325, 2002, vol. 21, no. 1, p. 103-109. (IF 0.852).
 - 39. Kupsakova, I., – Docolomansky, P., – Rybar, A., – Barancik, M., – Breier, A. *Carbonyl Group of Aliphatic Side Chain of Pentoxifylline does not Play Role for P-Glycoprotein Antagonizing Effect of Pentoxifylline.* Gen. Physiol. Biophys. ISSN 1338-4325, 2002, vol. 21, no. 4, p. 471-478. (IF 0.852).
 - 40. El-Saggan, A. H., – Dovinova, I., – Sulova, Z., – Barancik, M., – Hunakova, L., – Breier, A., – Uhrik, B. *Hypoxia Increases Cell Death in Multidrug-Resistant Leukemia Cells. Differences in Viability and Ultrastructure between Sensitive and Multidrug-Resistant L1210 Mouse Leukemic Cells under Hypoxia.* Gen. Physiol. Biophys. ISSN 1338-4325, 2003, vol. 22, no. 2, 265-273. (IF 0.852).
 - 41. Bartekova, M., – Styk, J., – Pancza, D., – Kukan, M., – Sebokova, J., – Breier, A. *Proteins released from liver after ischaemia induced an elevation of heart resistance against ischaemia-reperfusion injury: 1. Beneficial effect of protein fraction isolated from perfusate after ischaemia and reperfusion of liver.* Gen. Physiol. Biophys. ISSN 1338-4325, 2003, vol. 22, no. 4, p. 567-577. (IF 0.852).
 - 42. Orlicky, J., – Sulova, Z., – Dovinova, I., – Fiala, R., – Zahradnikova, A. Jr., – Breier, A. *Functional fluo-3/AM assay on P-glycoprotein transport activity in L1210/VCR cells by confocal microscopy.* Gen. Physiol. Biophys. ISSN 1338-4325, 2004, vol. 23, no. 3, p. 357-366. (IF 0.852).
 - 43. Bartekova, M., – Sulova, Z., – Pancza, D., – Ravingerova, T., – Stankovicova, T., – Styk, J., – Breier, A. *Proteins released from liver after ischaemia induced an elevation of heart resistance against ischaemia-reperfusion injury: 2. Beneficial effect of liver ischaemia in situ.* Gen. Physiol. Biophys. ISSN 1338-4325, 2004, vol. 23, no. 4, p. 489-497. (IF 0.852).
 - 44. Breier, A., – Boháková, V., – Docolomanský, P. *Inhibition of (Na(+)/K(+))-ATPase by Cibacron Blue 3G-A and its analogues.* Gen. Physiol. Biophys. ISSN 1338-4325, 2006, vol. 25, no. 4, p. 439-453. (IF 0.852).
 - 45. Uhrik, B., – El-Saggan, A. H., – Seres, M., – Gibalova, L., – Breier, A., – Sulova, Z. *Structural differences between sensitive and resistant L1210 Cells.* Gen. Physiol. Biophys. ISSN 1338-4325, 2006, vol. 25, no. 4, p. 427-438. (IF 0.852).
 - 46. Seres, M., – Poláková, E., Krizanová, O., Hudecová, S., Klymenko, S.V., Breier, A., Sulová, Z. *Overexpression of P-glycoprotein in L1210/VCR cells is associated with changes in several endoplasmic reticulum proteins that may be partially responsible for the lack of thapsigargin sensitivity.* Gen. Physiol. Biophys. ISSN 1338-4325, 2008, vol. 27, no. 4, p. 211-221. (IF 0.852).

47. Sulová, Z., – Šereš, M., – Barančík, M., – Gibalová, L., – Uhrík, B., – Poleková, L., – Breier, A. *Does any relationship exist between P-glycoprotein-mediated multidrug resistance and intracellular calcium homeostasis.* Gen. Physiol. Biophys. ISSN 1338-4325, 2009, vol. 28, Focus Issue, p. F89-F95. (IF 0.852).
48. Gibalová, L., – Sedlák, J., – Labudová, M., – Barančík, M., – Reháková, A., – Breier A., – Sulová, Z. *Multidrug resistant P-glycoprotein positive L1210/VCR cells are also cross-resistant to cisplatin via mechanism distinct with P-glycoprotein drug efflux activity.* Gen. Physiol. Biophys. ISSN 1338-4325, 2009, vol. 28, no. 4, p. 391-403. (IF 0.852).
49. Klymenko, S. V., – Ilyenko, I. N., – Golarnik, N. A., – Maznichenko, O. L., – Breier, A., – Bazyka, D. A. *Membrane transport and apoptosis-related proteins in radiation-associated acute myeloid leukemia following the Chernobyl accident.* Gen. Physiol. Biophys. ISSN 1338-4325, 2009, vol. 28, no. 1, p. 63-69. (IF 0.852).
50. Dočolomanský, P., – Boháčová, V., – Barančík, M., – Breier, A. *Why the xanthine derivatives are used to study of P-glycoprotein-mediated multidrug resistance in L1210/VCR line cells.* Gen. Physiol. Biophys. ISSN 1338-4325, 2010, vol. 29, no. 3, p. 215-221. (IF 0.852).
51. Šereš, M., – Ditte, P., – Breier, A., – Sulová, Z. *Effect of thapsigargin on P-glycoprotein-negative and P-glycoprotein-positive L1210 mouse leukaemia cells.* Gen. Physiol. Biophys. ISSN 1338-4325, 2010, vol. 29, no. 4, 396-401. (IF 0.852).
52. Imrichová, D., – Cocolová, M., – Messingerová, L., – Sulová, Z., – Breier, A. *Vincristine-induced expression of P-glycoprotein in MOLM-13 and SKM-1 acute myeloid leukemia cell lines is associated with coexpression of nestin transcript.* Gen. Physiol. Biophys. ISSN 1338-4325, 2014, vol. 33, no. 4, p. 425-431. (IF 1.173).
53. Breier, A., – Stetka, J., – Bohacová, V., – Macejová, D., – Brtko, J., – Sulová, Z. *Effect of 9-cis retinoic acid and all-trans retinoic acid in combination with verapamil on P-glycoprotein expression in L1210 cells.* Neoplasma. ISSN 0028-2685, 2014, vol. 61, no. 5, p. 553-565. (IF 1.865).
54. Šereš, M., – Pavlíková, L., – Sulová, Z., – Breier, A. *Lectin detection of cell surface saccharides remodeling induced by development of P-glycoprotein mediated multidrug resistance phenotype in L1210 leukemia cells.* Acta Chimica Slovaca, 2014, 7(1), 52–56
55. Messingerová, L., – Jonášová, A., – Barančík, M., – Poleková, L., – Šereš, M., – Gibalová, L., – Breier, A., – Sulová Z. *Lenalidomide treatment induced the normalization of marker protein levels in blood plasma of patients with 5q-myelodysplastic syndrome.* Gen. Physiol. Biophys. ISSN 0028-2685, 2015, vol. 34, no. 4, 399–406. (IF 0.892).
56. Pavlikova, L., – Seres, M., – Imrichová, D., – Hano, M., – Rusnak, A., – Zamorova, M., – Katrlik, J., Breier, A., Sulová, Z. *The expression of P-gp in leukemia cells is associated with cross-resistance to protein N-glycosylation inhibitor tunicamycin.* Gen. Physiol. Biophys. ISSN 0028-2685, 2016, vol. 35, no. 4, p. 497-510. (IF 0.892).
57. Kocibalova, Z., – Guzyova, M., – Imrichová, D., – Sulová, Z., – Breier A. *Overexpression of the ABCB1 drug transporter in acute myeloid leukemia cells is associated with downregulation of latrophilin-1.* Gen Physiol Biophys. 2018; 37(3):353-357. (IF 1.309)

2.2 Prednášky na zahraničných vedeckých podujatiach*** (v zozname vyznačte pozvané prednášky a prednášky osobne prednesené) – počet:

z toho: - pozvané prednášky - počet: Nemám evidované

- osobne prednesené prednášky - počet: 11

- osobne prednesené prednášky - počet: 5

2.3 Prednášky na domácich vedeckých podujatiach (v zozname vyznačte pozvané prednášky a prednášky osobne prednesené) – počet:

z toho: - pozvané prednášky - počet: Nemám evidované

- osobne prednesené prednášky - počet: Nemám evidované

- osobne prednesené prednášky - počet: Nemám evidované

2.4 Riešené vedeckovýskumné projekty: Uvádzam od 2013 od kedy som zamestnacom FCHPT STU

- VEGA: 3 x
- APVV: 2 x zodpovedný riešiteľ, 2 x zodpovedný na FCHPT STU
- ŠPVaV:
- medzinárodné projekty:
- iné (napr. aplikovaný výskum MŠVVaŠ SR, finančný príspevok MŠVVaŠ SR na medzinárodné projekty, projekty od iných agentúr resp nadácií a pod.):
- 1 x ŠF EU zodpovedný na FCHPT
- ZoD - počet:

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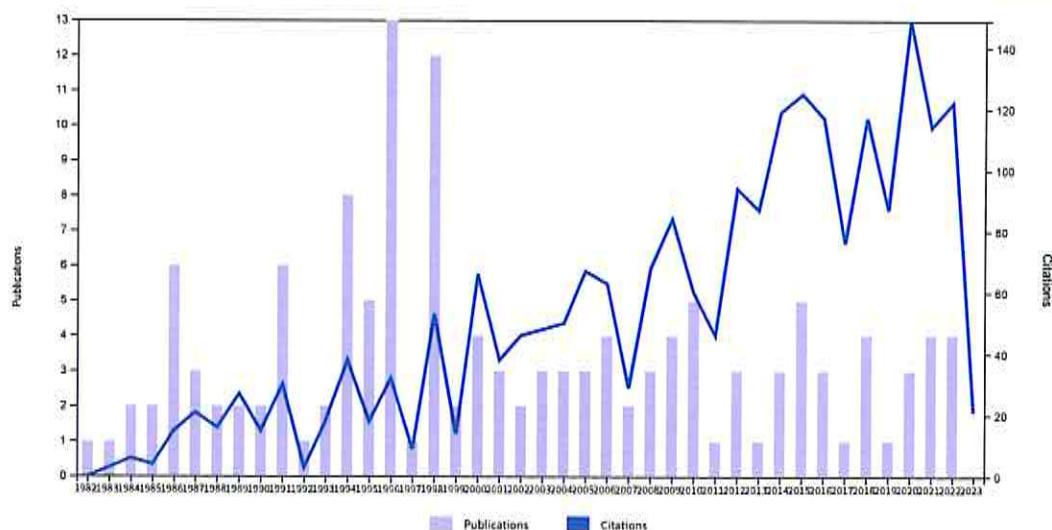
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