



Publikace k výzkumným aktivitám SZÚ za rok 2014

Publikace k výzkumným aktivitám SZÚ za rok 2014

- články v impaktovaných časopisech

1. ANDERSON, P., WOJNAR, M., JAKUBCZYK, A., GUAL, A., SEGURA, L., SOVINOVA, H., CSEMY, L., KANER, E., NEWBURY-BIRCH, D., FORNASIN, A., STRUZZO, P., RONDA, G., VAN STEENKISTE, B., KEURHORST, M., LAURANT, M., RIBEIRO, C., DO ROSARIO, F., ALVES, I., SCAFATO, E., GANDIN, C., KOLSEK, M. Managing alcohol problems in general practice in Europe: results from the European ODHIN survey of general practitioners. *Alcohol and Alcoholism*. 2014, **49**(5), 531-539. ISSN 0735-0414.
2. BELL, S., BRITTON, A., KUBINOVA, R., MALYUTINA, S., PAJAK, A., NIKITIN, Y., BOBAK, M. Drinking pattern, abstention and problem drinking as risk factors for depressive symptoms: evidence from three urban Eastern European populations. *PLoS One*. 2014, **9**(8), e104384. ISSN 1932-6203.
3. BOON, P.E., VAN DER VOET, H., RUPRICH, J., TURRINI, A., SAND, S., VAN KLAVEREN, J. Computational tool for usual intake modelling workable at the European level. *Food and Chemical Toxicology*. 2014, **74**, 279-288. ISSN 0278-6915.
4. BOTH, L., NEAL, S., DE ZOYSA, A., MANN, G., CZUMBEL, I., EFSTRATIOU, A.; European Diphtheria Surveillance Network; ZAVADILOVA, J., et al External quality assessments for microbiologic diagnosis of diphtheria in Europe. *Journal of Clinical Microbiology*. 2014, **52**(12), 4381-4384. ISSN 0095-1137.
5. BREHONY, C., TROTTER, C.L., RAMSAY, M.E., CHANDRA, M., JOLLEY, K.A., VAN DER ENDE, A., CARION, F., BERTHELSEN, L., HOFFMANN, S., HARDARDÓTTIR, H., VAZQUEZ, J.A., MURPHY, K., TOROPAINEN, M., CANIÇA, M., FERREIRA, E., DIGGLE, M., EDWARDS, G.F., TAHA, M.K., STEFANELLI, P., KRIZ, P., GRAY, S.J., FOX, A.J., JACOBSSON, S., CLAUS, H., VOGEL, U., TZANAKAKI, G., HEUBERGER, S., CAUGANT, D.A., FROSCH, M., MAIDEN, M.C.J. Implications of differential age distribution of disease-associated meningococcal lineages for vaccine development. *Clinical and Vaccine Immunology*. 2014, **21**(6), 847-853. ISSN 1556-6811.
6. BRUGGMANN, P., BERG, T., OVREHUS, A.L.H., MORENO, C., BRAND~AO MELLO, C.E., ROUDOT-THORAVAL, F., MARINHO, R.T., SHERMAN, M., RYDER, S.D., SPERL, J., AKARCA, U., BALIK, I., BIHL, F., BILODEAU, M., BLASCO, A.J., BUTI, M., CALINAS, F., CALLEJA, J.L., CHEINQUER, H., CHRISTENSEN, P.B., CLAUSEN, M., COELHO, H.S.M., CORNBERG, M., CRAMP, M.E., DORE, G.J., DOSS, W., DUBERG, A.S., EL-SAYED, M.H., ERGÖR, G., ESMAT, G., ESTES, C., FALCONER, K., FÉLIX, J., FERRAZ, M.L.G., FERREIRA, P.R., FRANKOVA, S., GARCÍA-SAMANIEGO, J., GERSTOFT, J., GIRIA, J.A., GONÇALES JR.,



STÁTNÍ ZDRAVOTNÍ ÚSTAV

- F.L., GOWER, E., GSCHWANTLER, M., GUIMAR~AES PESSÔA, M., HÉZODE, C., HOFER, H., HUSA, P., IDILMAN, R., KABERG, M., KAITA, K.D.E., KAUTZ, A., KAYMAKOGLU, S., KRAJDEN, M., KRARUP, H., LALEMAN, W., LAVANCHY, D., LÁZARO, P., MAROTTA, P., MAUSS, S., MENDES CORREA, M.C., MÜLLHAUPT, B., MYERS, R.P., NEGRO, F., NEMECEK, V., et al. Historical epidemiology of hepatitis C virus (HCV) in selected countries. *Journal of Viral Hepatitis*. 2014, **21**(Suppl.1), 5-33. ISSN 1352-0504.
7. BRUSAFAERRO, S., COOKSON, B., KALENIC, S., COOPER, T., FABRY, J., GALLAGHER, R., HARTEMANN, P., MANNERQUIST, K., POPP, W., PRIVITERA, G., RUEF, C., VIALE, P., COIZ, F., FABBRO, F., SUETENS, C., VARELA SANTOS, C., TRICE - Training in Infection Control in Europe project. Training infection control and hospital hygiene professionals in Europe, 2010: agreed core competencies among 33 European countries. *Euro Surveillance*. 2014, **19**(49), 45-54. ISSN 1560-7917.
8. BUCHANCOVÁ, J., ŠVIHROVÁ, V., LEGÁTH, L., BÁTORA, I., ZÁBORSKÝ, T., ROZBORILOVÁ, E., FENCLOVÁ, Z., URBAN, P., ZIBOLENOVÁ, J., OSINA, O., JANOUŠEK, M., HUDEČKOVÁ, H. Profesionálna TBC na Slovensku a v Českej republike. *Epidemiologie, mikrobiologie, imunologie*. 2014, **63**(3), 200-205. ISSN 1210-7913.
9. DA CUNHA, V., DAVIES, M.R., DOUARRE, P.E., ROSINSKI-CHUPIN, I., MARGARIT, I., SPINALI, S., PERKINS, T., LECHAT, P., DMYTRUK, N., SAUVAGE, E., MA, L., ROMI, B., TICHIT, M., LOPEZ-SANCHEZ, M.J., DESCORPS-DECLERE, S., SOUCHE, E., BUCHRIESER, C., TRIEU-CUOT, P., MOSZER, I., CLEMONT, D., MAIONE, D., BOUCHIER, C., MCMILLAN, D.J., PARKHILL, J., TELFORD, J.L., DOUGAN, G., WALKER, M.J., DEVANI Consortium, HOLDEN, M.T.G., POYART, C., GLASER, P. Streptococcus agalactiae clones infecting humans were selected and fixed through the extensive use of tetracycline. *Nature Communications*. 2014, **5** Art.No. 4544. ISSN 2041-1723.
10. DAVÍDKOVOVÁ, H., PLAVCOVÁ, E., KYŇCL, J., KYSELÝ, J. Impacts of hot and cold spells differ for acute and chronic ischaemic heart diseases. *BMC Public Health*. 2014, **14**, Art.no. 480. ISSN 1471-2458.
11. DE BEL, A., ŠVEC, P., PETRÁŠ, P., SEDLÁČEK, I., PANTŮČEK, R., ECHAHIDI, F., PIÉRARD, D., VANDAMME, P. Reclassification of *Staphylococcus jettensis* De Bel et al. 2013 as *Staphylococcus petrasii* subsp *jettensis* subsp nov and emended description of *Staphylococcus petrasii* Pantucek et al. 2013. *International Journal of Systematic and Evolutionary Microbiology*. 2014, **64**(Pt.12), 4198-4201. ISSN 1466-5026.
12. DUFKOVA, L., PACHLER, K., KILIAN, P., CHRUDIMSKÝ, T., DANIELOVÁ, V., RŮŽEK, D., NOWOTNY, M. Full-length genome analysis of Calovo strains of Batai orthobunyavirus (Bunyamwera serogroup): implications to taxonomy. *Infection, Genetics and Evolution*. 2014, **27**, 96-104. ISSN 1567-1348.
13. FLANAGAN, L., SCHMID, J., EBERT, M., SOUCEK, P., KUNICKA, T., LISKA, V., BRUHA, J., NEARY, P., DEZEEUW, N., TOMMASINO, M., JENAB, M., PREHN, J.H.M., HUGHES, D.J. *Fusobacterium nucleatum* associates with stages of colorectal neoplasia development, colorectal cancer and disease outcome. *European Journal of Clinical Microbiology & Infectious Diseases*. 2014, **33**(8), 1381-1390. ISSN 0934-9723.
14. FRENTZ, D., VAN DE VIJVER, D.A.M.C., ABECASIS, A.B., ALBERT, J., HAMOUDA, O., JORGENSEN, L.B., KÜCHERER, C., STRUCK, D., SCHMIT, J.C., VERCAUTEREN, J., ASJÖ, B., BALOTTA, C., COLM, B., BESHKOV, D., CAMACHO, R.J., CLOTET, B., GRISKEVICIUS, A., GROSSMAN, Z., HORBAN, A., KOLUPAJEVA, T., KORN, K., KOSTRIKIS, L.G.,



STÁTNÍ ZDRAVOTNÍ ÚSTAV

- LIITSOLA, K., LINKA, M., NIELSEN, C., OTELEA, D., PARASKEVIS, D., PAREDES, R., POLJAK, M., PUCHHAMMER-STÖCKL, E., SÖNNERBORG, A., STANEKOVA, D., STANOJEVIC, M., VANDAMME, A.M., BOUCHER, C.A.B., WENSING, A.M.J.; SPREAD Programme. Patterns of transmitted HIV drug resistance in Europe vary by risk group. *PLoS One*. 2014, **9**(4), e94495. ISSN 1932-6203.
15. FRENTZ, D., VAN DE VIJVER, D.A.M.C., ABECASIS, A.B., ALBERT, J., HAMOUDA, O., JØRGENSEN, L.B., KÜCHERER, C., STRUCK, D., SCHMIT, J.C., VERCAUTEREN, J., ASJÖ, B., BALOTTA, C., BESHKOV, D., CAMACHO, R.J., CLOTET, B., COUGHLAN, S., GRISKEVICIUS, A., GROSSMAN, Z., HORBAN, A., KOLUPAJEVA, T., KORN, K., KOSTRIKIS, L.G., LIITSOLA, K., LINKA, M., NIELSEN, C., OTELEA, D., PARASKEVIS, D., PAREDES, R., POLJAK, M., PUCHHAMMER-STÖCKL, E., SÖNNERBORG, A., STANEKOVA, D., STANOJEVIC, M., VAN WIJNGAERDEN, E., WENSING, A.M.J., BOUCHER, C.A.B.; SPREAD Programme. Increase in transmitted resistance to non-nucleoside reverse transcriptase inhibitors among newly diagnosed HIV-1 infections in Europe. *BMC Infectious Diseases*. 2014, **14**, Art.No. 407. ISSN 1471-2334.
16. GRILLOVÁ, L., PĚTROŠOVÁ, H., MIKALOVÁ, L., STRNADEL, R., DASTYCHOVÁ, E., KUKLOVÁ, I., KOJANOVÁ, M., KREIDLOVÁ, M., VAŇOUSOVÁ, D., HERCOGOVÁ, J., PROCHÁZKA, P., ZÁKOUCKÁ, H., KRCHNÁKOVÁ, A., VAŠKŮ, V., ŠMAJS, D. Molecular typing of *Treponema pallidum* in the Czech Republic during 2011 to 2013: increased prevalence of identified genotypes and of isolates with macrolide resistance. *Journal of Clinical Microbiology*. 2014, **52**(10), 3693-3700. ISSN 0095-1137.
17. HESSON, J.C., RETTICH, F., MERDIĆ, E., VIGNJEVIĆ, G., ÖSTMAN, Ö., SCHÄFER, M., SCHAFFNER, F., FOUSSADIER, R., BESNARD, G., MEDLOCK, J., SCHOLTE, E.-J., LUNDSTRÖM, J.O. The arbovirus vector *Culex torrentium* is more prevalent than *Culex pipiens* in northern and central Europe. *Medical and Veterinary Entomology*. 2014, **28**(2), 179-186. ISSN 0269-283X.
18. HLAVÁČ, V., BRYNYCHOVÁ, V., VÁCLAVÍKOVÁ, R., EHRLICOVÁ, M., VRÁNA, D., PECHA, V., TRNKOVÁ, M., KODET, R., MRHALOVÁ, M., KUBÁČKOVÁ, K., GATEK, J., VÁŽAN, P., SOUČEK, P. The role of cytochromes p450 and aldo-keto reductases in prognosis of breast carcinoma patients. *Medicine (Baltimore)*. 2014, **93**(28), e255. ISSN 0025-7974.
19. HOLMES, M.V., DALE, C.E., ZUCCOLO, L., SILVERWOOD, R.J., GUO, Y., YE, Z., PRIETO-MERINO, D., DEHGHAN, A., TROMPET, S., WONG, A., CAVADINO, A., DROGAN, D., PADMANABHAN, S., LI, S., YESUPRIYA, A., LEUSINK, M., SUNDSTROM, J., HUBACEK, J.A., PIKHART, H., SWERDLOW, D.I., PANAYIOTOU, A., BORINNSKAYA, S.N., FINAN, C., SHAH, S., KUCHENBAECKER, K.B., SHAH, T., ENGMANN, J., FOLKERSEN, L., ERIKSSON, P., RICCIERI, F., MELANDER, O., SACERDOTE, C., GAMBLE, D.M., RAYAPROLU, S., ROSS, O.A., MCLACHLAN, S., VIKHIREVA, O., SLUIJS, I., ADAMKOVA, V., FLICKER, L., VAN BOCKXMEER, F.M., POWER, C., MARQUES-VIDAL, P., MEADE, T., MARMOT, M.G., FERRO, J.M., PAULOS-PINHEIRO, S., HUMPHRIES, S.E., TALMUD, P.J., LEACH, I.M., VERWEIJ, N., LINNBERG, A., SKAABY, T., DOEVENDANS, P.A., CRAMER, M.J., VAN DER HARST, P., KLUNGEL, O.H., DOWLING, N.F., DOMINICZAK, A.F., KUMARI, M., NICOLAIDES, A.N., WEIKERT, C., BOEING, H., EBRAHIM, S., GAUNT, T.R., PRICE, J.F., LANNFELT, L., PEASEY, A., KUBINOVA, R., PAJAK, A., MALYUTINA, S., et al. Association between alcohol and cardiovascular disease: Mendelian randomisation analysis based on individual participant data. *BMJ - British Medical Journal*. 2014, **349**, g4164. ISSN 1756-1833.



20. HOLMES, M.V., FRIKKE-SCHMIDT, R., MELIS, D., LUBEN, R., ASSELBERGS, F.W., BOER, J.M.A., COOPER, J., PALMEN, J., HORVAT, P., ENGMANN, J., LI, K.W., ONLAND-MORET, N.C., HOFKER, M.H., KUMARI, M., KEATING, B.J., HUBACEK, J.A., ADAMKOVA, V., KUBINOVA, R., BOBAK, M., KHAW, K.T., NORDESTGAARD, B.G., WARENHAM, N., HUMPHRIES, S.E., LANGENBERG, C., TYBJAERG-HANSEN, A., TALMUD, P.J. A systematic review and meta-analysis of 130,000 individuals shows smoking does not modify the association of APOE genotype on risk of coronary heart disease. *Atherosclerosis*. 2014, **237**(1), 5-12. ISSN 0021-9150.
21. HORVAT, P., RICHARDS, M., MALYUTINA, S., PAJAK, A., KUBINOVA, R., TAMOSIUNAS, A., PIKHART, H., PEASEY, A., MARMOT, M.G., BOBAK, M. Life course socioeconomic position and mid-late life cognitive function in Eastern Europe. *Journals of Gerontology. Series B, Psychological Sciences and Social Sciences*. 2014, **69**(3), 470-781. ISSN 1079-5014.
22. HRADSKY O., OHLEM, J., ZARUBOVA, K., MITROVA, K., DURILOVA, M., KOTALOVA, R., NEVORAL, J., ZEMANOVA, I., DRYAK, P., BRONSKY, J. Disease activity is an important factor for indeterminate interferon-gamma release assay results in children with inflammatory bowel disease. *Journal of Pediatric Gastroenterology and Nutrition*. 2014, **58**(3), 320-324. ISSN 0277-2116.
23. HUBACEK, J.A., PEASEY, A., KUBINOVA, R., PIKHART, H., BOBAK, M. The association between APOA5 haplotypes and plasma lipids is not modified by energy or fat intake: The Czech HAPIEE study. *Nutrition, Metabolism and Cardiovascular Diseases*. 2014, **24**(3), 243-247. ISSN 0939-4753.
24. HUPKOVÁ, H., ZÁBORSKÁ, M., ŠIŠOVSKÝ, V., BABÁL, P., ŠIMALJAKOVÁ, M., KOREŇ, M., REIS, R., KOZÁKOVÁ, J. Klinická a mikrobiologická charakteristika závažných infekcií spôsobených streptokokmi skupiny A. *Epidemiologie, mikrobiologie, imunologie*. 2014, **63**(3), 164-167. ISSN 1210-7913.
25. JANKOVIC, N., GEELEN, A., STREPPEL, M., DE GROOT, L., ORFANOS, P., VAN DEN HOVEN, E.H., PIKHART, H., BOFFETTA, P., TRICHOPOULOU, A., BOBAK, M., BUENO-DE-MESQUITA, H.B., KEE, F., FRANCO, O.H., PARK, Y., HALLMANNS, G., TJONNELAND, A., MAY, A.M., PAJAK, A., MALYUTINA, S., KUBINOVA, R., AMIANO, P., KAMPMAN, E., FESKENS, E.J. Adherence to a healthy diet according to the World Health Organization guidelines and all-cause mortality in elderly adults from Europe and the United States. *American Journal of Epidemiology*. 2014, **180**(10), 978-988. ISSN 0002-9262.
26. JAROLÍMEK, J., URBAN, P. Twenty year development of occupational diseases in the Czech Republic: medical and geographical aspects. *Central European Journal of Public Health*. 2014, **22**(4), 251-256. ISSN 1210-7778.
27. JÍROVÁ, D., KEJLOVÁ, K., JANOUŠEK, S., BENDOVÁ, H., MALÝ, M., KOLÁŘOVÁ, H., DVOŘÁKOVÁ, M. Eye irritation hazard of chemicals and formulations assessed by methods in vitro. *Neuro Endocrinology Letters*. 2014, **35**(Suppl.2), 133-140. ISSN 0172-780X.
28. KOVÁCS, G., KALÓ, Z., JAHNZ-ROZYK, K., KYNCL, J., CSOHAN, A., PISTOL, A., LELEKA, M., KIPSHAKBAEV, R., DURAND, L., MACABEO, B. Medical and economic burden of influenza in the elderly population in central and eastern European countries. *Human Vaccines & Immunotherapeutics*. 2014, **10**(2), 428-440. ISSN 2164-5515.
29. KRIZ, B., DANIEL, M., BENES, C., MALÝ, M. The role of game (wild boar and roe deer) in the spread of tick-borne encephalitis in the Czech Republic. *Vector Borne and Zoonotic Diseases*. 2014, **14**(11), 801-807. ISSN 1530-3667.



30. KRIZOVA, L., MAIXNEROVA, M., SEDO, O., NEMEC, A. *Acinetobacter bohemicus* sp nov widespread in natural soil and water ecosystems in the Czech Republic. *Systematic and Applied Microbiology*. 2014, **37**(7), 467-473. ISSN 0723-2020.
31. KUMARI, M., HOLMES, M.V., DALE, C.E., HUBÁČEK, J.A., PALMER, T.M., PIKHART, H., PEASEY, A., BRITTON, A., HORVAT, P., KUBINOVA, R., MALYUTINA, S., PAJAK, A., TAMOSIUNAS, A., SHANKAR, A., SINGH-MANOUX, A., VOEVODA, M., KIVIMAKI, M., HINGORANI, A.D., MARMOT, M.G., CASAS, J.P., BOBAK, M. Alcohol consumption and cognitive performance: a Mendelian randomization study. *Addiction*. 2014, **109**(9), 1462-1471. ISSN 0965-2140.
32. KUNICKÁ, T., SOUČEK, P. Importance of ABCC1 for cancer therapy and prognosis. *Drug Metabolism Review*. 2014, **46**(3), 325-342. ISSN 0360-2532.
33. KUNICKÁ, T., VÁCLAVÍKOVÁ, R., HLAVÁČ, V., VRÁNA, D., PECHA, V., RAUS, K., TRNKOVÁ, M., KUBÁČKOVÁ, K., AMBRUŠ, M., VODIČKOVÁ, L., VODIČKA, P., SOUČEK, P. Non-coding polymorphisms in nucleotide binding domain 1 in ABCC1 gene associate with transcript level and survival of patients with breast cancer. *PLoS One*. 2014, **9**(7), e101740. ISSN 1932-6203.
34. LEMSTROVÁ, R., SOUČEK, P., MELICHAR, B., MOHELNIKOVA-DUCHONOVA, B. Role of solute carrier transporters in pancreatic cancer: a review. *Pharmacogenomics*. 2014, **15**(8), 1133-1145. ISSN 1462-2416.
35. LUKEŠOVÁ, L., VRÁNA, D., GATĚK, J., KORANDA, P., CWIERTKA, K., RADOVÁ, L., MELICHAR, B., PROUZOVÁ, Z., ŠRÁMEK, V., ŠVACH, I. Predictive parameters for internal mammary node drainage in patients with early breast cancer. *Tumori*. 2014, **100**(3), 254-258. ISSN 0300-8916.
36. MALIR, F., OSTRÝ, V., PFOHL-LESZKOWICZ, A., TOMAN, J., BAZIN, I., ROUBAL, T. Transfer of Ochratoxin A into Tea and Coffee Beverages. *Toxins*. 2014, **6**(12), 3438-3453. ISSN 2072-6651.
37. MARTI-SOLER, H., GABELMANN, C., AESCHBACHER, S., ALVES, L., BOBAK, M., BONGARD, V., CLAYS, E., DE GAETANO, G., DI CASTELNUOVO, A., ELOSUA, R., FERRIERES, J., GUESSOUS, I., IGLAND, J., JORGENSEN, T., NIKITIN, Y., O'DOHERTY, M.G., PALMIERI, L., RAMOS, R., SIMONS, J., SULO, G., VANUZZO, D., VILA, J., BARROS, H., BORGLYKKE, A., CONEN, D., DE BACQUER, D., DONFRANCESCO, C., GASPOZ, J.M., GIAMPAOLI, S., GILES, G.G., IACOVIELLO, L., KEE, F., KUBINOVA, R., MALYUTINA, S., MARRUGAT, J., PRESCOTT, E., RUIDAVETS, J.B., SCRAGG, R., SIMONS, L.A., TAMOSIUNAS, A., TELL, G.S., VOLLENWEIDER, P., MARQUES-VIDAL, P. Seasonality of cardiovascular risk factors: an analysis including over 230 000 participants in 15 countries. *Heart*. 2014, **100**(19), 1517-1523. ISSN 1355-6037.
38. MOHELNIKOVA-DUCHONOVA, B., MELICHAR, B., SOUCEK, P. FOLFOX/FOLFIRI pharmacogenetics: the call for a personalized approach in colorectal cancer therapy. *World Journal Gastroenterology*. 2014, **20**(30), 10316-10330. ISSN 1007-9327.
39. NAGY, A., ČERNÍKOVÁ, L., JIŘINCOVÁ, H., HAVLÍČKOVÁ, M., HORNÍČKOVÁ, J. Local-scale diversity and between-year "frozen evolution" of avian influenza A viruses in nature. *PLoS One*. 2014, **9**(7), e103053. ISSN 1932-6203.
40. NECHVÁTAL, L., PĚTROŠOVÁ, H., GRILLOVÁ, L., POSPÍŠILOVÁ, P., MIKALOVÁ, L., STRNADEL, R., KUKLOVÁ, I., KOJANOVÁ, M., KREIDLOVÁ, M., VAŇOUSOVÁ, D., PROCHÁZKA, P., ZÁKOUCKÁ, H., KRCHNÁKOVÁ, A., ŠMAJS, D. Syphilis-causing strains



belong to separate SS14-like or Nichols-like groups as defined by multilocus analysis of 19 *Treponema pallidum* strains. *International Journal of Medical Microbiology*. 2014, **304**(5-6), 645-653. ISSN 1438-4221.

41. PEREYASLOV, D., ROSIN, P., PALM, D., ZELLER, H., GROSS, D., BROWN, C.S., STRUELENS, M.J.; MERS-CoV Working Group, JIRINCOVA, H., HAVLICKOVA, M. Laboratory capability and surveillance testing for Middle East respiratory syndrome coronavirus infection in the WHO European Region, June 2013. *Euro Surveillance*. 2014, **19**(40), pii=20923. ISSN 1560-7917.
42. PERICHON, B., GOUSSARD, S., WALEWSKI, V., KRIZOVA, L., CERQUEIRA, G.C., MURPHY, C., FELDGARDEN, M., WORTMAN, J., CLERMONT, D., NEMEC, A., COURVALIN, P. Identification of 50 class D beta-lactamases and 65 Acinetobacter-derived cephalosporinases in *Acinetobacter* spp. *Antimicrobial Agents and Chemotherapy*. 2014, **58**(2), 936-949. ISSN 0066-4804.
43. POTMĚŠIL, R., BERAN, O., MUSÍLEK, M., KŘÍŽOVÁ, P., HOLUB, M. Different cytokine production and toll-like receptor expression induced by heat-killed invasive and carrier strains of *Neisseria meningitidis*. *APMIS*. 2014, **122**(1), 33-41. ISSN 0903-4641.
44. RAMBOUSKOVÁ, J., KRSKOVÁ, A., SLAVÍKOVÁ, M., ČEJCHANOVÁ, M., ČERNÁ, M. Blood levels of lead, cadmium, and mercury in the elderly living in institutionalized care in the Czech Republic. *Experimental Gerontology*. 2014, **58**, 8-13. ISSN 0531-5565.
45. RAZAVI, H., WAKED, I., SARRAZIN, C., MYERS, R.P., IDILMAN, R., CALINAS, F., VOGEL, W., MENDES CORREA, M.C., HÉZODE, C., LÁZARO, P., AKARCA, U., ALEMAN, S., BALIK, I., BERG, T., BIHL, F., BILODEAU, M., BLASCO, A.J., BRAND~AO MELLO, C.E., BRUGGMANN, P., BUTI, M., CALLEJA, J.L., CHEINQUER, H., CHRISTENSEN, P.B., CLAUSEN, M., COELHO, H.S.M., CRAMP, M.E., DORE, G.J., DOSS, W., DUBERG, A.S., EL-SAYED, M.H., ERGÖR, G., ESMAT, G., FALCONER, K., FÉLIX, J., FERRAZ, M.L.G., FERREIRA, P.R., FRANKOVÁ, S., GARCÍA-SAMANIEGO, J., GERSTOFT, J., GIRIA, J.A., GONÇALES JR., F.L., GOWER, E., GSCHWANTLER, M., GUIMAR~AES PESSÔA, M., HINDMAN, S.J., HOFER, H., HUSA, P., KABERG, M., KAITA, K.D.E., KAUTZ, A., KAYMAKOGLU, S., KRAJDEN, M., KRARUP, H., LALEMAN, W., LAVANCHY, D., MARINHO, R.T., MAROTTA, P., MAUSS, S., MORENO, C., MURPHY, K., NEGRO, F., NEMECEK, V., et al. The present and future disease burden of hepatitis C virus (HCV) infection with today's treatment paradigm. *Journal of Viral Hepatitis*. 2014, **21**(Suppl.1), 34-59. ISSN 1352-0504.
46. RICHTER, J., ČAPKOVÁ, K., HŘÍBALOVÁ, V., VANNUCCI, V., DANYI, I., MALÝ, M., FIŠEROVÁ, A. Collagen-induced arthritis: severity and immune response attenuation using multivalent N-acetyl glucosamine. *Clinical and Experimental Immunology*. 2014, **177**(1), 121-133. ISSN 0009-9104.
47. SANDERSON-SMITH, M., DE OLIVIERA, D.M.P., GUGLIELMINI, J., MCMILLAN, D.J., VU, T., HOLIEN, J.K., HENNINGHAM, A., STEER, A.C., BESSEN, D.E., DALE, J.B., CURTIS, N., BEALL, B.W., WALKER, M.J., PARKER, M.W., CARAPETIS, J.R., VAN MELDEREN, L., SRIPRAKASH, K.S., SMEESTERS, P.R., M PROTEIN STUDY GROUP. A systematic and functional classification of *Streptococcus* pyogenes that serves as a new tool for molecular typing and vaccine development. *Journal of Infectious Diseases*. 2014, **210**(8), 1325-1338. ISSN 0022-1899.



48. SCHINDLER, B.K., ESTEBAN, M., KOCH, H.M., CASTANO, A., KOSLITZ, S., CA~NAS, A., CASTELEYN, L., KOLOSSA-GEHRING, M., SCHWEDLER, G., SCHOETERS, G., DEN HOND, E., SEPAI, O., EXLEY, K., BLOEMEN, L., HORVATH, M., KNUDSEN, L.E., JOAS, A., JOAS, R., BIOT, P., AERTS, D., LOPEZ, A., HUERTOS, O., KATSONOURI, A., MAURER-CHRONAKIS, K., KASPAROVA, L., VRBÍK, K., et al. The European COPHES/DEMOCOPHES project: towards transnational comparability and reliability of human biomonitoring results. *International Journal of Hygiene and Environmental Health*. 2014, **217**(6), 653-661. ISSN 1438-4639.
49. SCHÖTTKER, B., JORDE, R., THORAND, B., JANSEN, E.H.J.M., DE GROOT, L., STREPPEL, M., GARDINER, J., ORDONEZ-MENA, J.M., PERNA, L., WILSGAARD, T., RATHMANN, W., FESKENS, E.J., KAMPMAN, E., SIGANOS, G., NJOLSTAD, I., BOGEBERG MATHIESEN, E., KUBÍNOVÁ, R., PAJÁK, A., TOPOR-MADRY, R., TAMOSIUNAS, A., HUGHES, M., KEE, F., BOBAK, M., TRICHOPOULOU, A., BOFFETTA, P., BRENNER, H.; CHANCES Consortium. Vitamin D and mortality: meta-analysis of individual participant data from a large consortium of cohort studies from Europe and the United States. *BMJ - British Medical Journal*. 2014, **348**, g3656. ISSN 1756-1833.
50. SMET, A., COOLS, P., KRIZOVA, L., MAIXNEROVA, M., SEDO, O., HAESEBROUCK, F., KEMPF, M., NEMEC, A., VANEECHOUTTE, M. Acinetobacter gandensis sp. nov. isolated from horse and cattle. *International Journal of Systematic and Evolutionary Microbiology*. 2014, **64**(Pt.12), 4007-4015. ISSN 1466-5026.
51. SOUSA, C., BOTELHO, J., SILVA, L., GROSSO, F., NEMEC, A., LOPES, J., PEIXE, L. MALDI-TOF MS and chemometric based identification of the Acinetobacter calcoaceticus-Acinetobacter baumannii complex species. *International Journal of Medical Microbiology*. 2014, **304**(5-6), 669-677. ISSN 1438-4221.
52. SOUSA, C., SILVA, L., GROSSO, F., NEMEC, A., LOPES, J., PEIXE, L. Discrimination of the Acinetobacter calcoaceticus-Acinetobacter baumannii complex species by Fourier transform infrared spectroscopy. *European Journal of Clinical Microbiology & Infectious Diseases*. 2014, **33**(8), 1345-1353. ISSN 0934-9723.
53. STEFANOFF, P., ORLÍKOVÁ, H., PRÍKAZSKÝ, V., BENEŠ, Č., ROSIŃSKA, M. Cross-border surveillance differences: tick-borne encephalitis and Lyme borreliosis in the Czech Republic and Poland, 1999-2008. *Central European Journal of Public Health*. 2014, **22**(1), 54-59. ISSN 1210-7778.
54. STEFLER, D., PIKHART, H., JANKOVIC, N., KUBINOVA, R., PAJAK, A., MALYUTINA, S., SIMONOVA, G., FESKENS, E.J.M., PEASEY A., BOBAK, M. Healthy diet indicator and mortality in Eastern European populations: prospective evidence from the HAPIEE cohort. *European Journal of Clinical Nutrition*. 2014, **68**(12), 1346-1352. ISSN 0954-3007.
55. STEINHAUSEROVÁ, P., ŘEHŮŘKOVÁ, I., RUPRICH, J. Determination of iodine and sodium content in fermented meat products purchased in the Czech Republic- a pilot study. *Acta Veterinaria Brno*. 2014, **83**(3), 273-277. ISSN 0001-7213.
56. SYSALOVÁ, J., SZÁKOVÁ, J., TREMLOVÁ, J., KAŠPAROVSKÁ, K., KOTLÍK, B., TLUSTOŠ, P., SVOBODA, P. Methodological aspects of in vitro assessment of bio-accessible risk element pool in urban particulate matter. *Biological Trace Element Research*. 2014, **161**(2), 216-222. ISSN 0163-4984.
57. ŠMÍD, J., MORAVEC, J., KODYM, P., KRATOCHVÍL, L., YOUSEFKHANI, S.S.H., RASTEGAR-POUYANI, E., FRYNTA, D. Annotated checklist and distribution of the lizards of



Iran. Zootaxa. 2014, **3855**(1), 1-97. ISSN 1175-5326.

58. TOMANKOVA, K., KOLAROVA, H., PIZOVA, K., BINDER, S., KONECNY, P., KRIEGOVA, E., MALINA, L., HORAKOVA, J., MALOHLAVA, J., KEJLOVA, K., JIROVA, D. Cytotoxicity and antioxidative effects of herbal and fruit extracts in vitro. *Food Biophysics*. 2014, **9**(3), 267-276. ISSN 1557-1858.
59. TORNÉ, A.N., DIAS, J.G., QUINTEN, C., HRUBA, F., BUSANA, M.C., LOPACO, P.L., GAUCI, A.J.A., PASTORE-CELENTANO, L.; ECDC Country Experts; KRÍŽOVA, P., KOZAKOVA, J., MOTLOVA, J. et al. Pneumococcal European enhanced surveillance of invasive pneumococcal disease in 2010: Data from 26 European countries in the post-heptavalent conjugate vaccine era. *Vaccine*. 2014, **32**(29), 3644-3650. ISSN 0264-410X.
60. TOUCHON, M., CURY, J., YOON, E.J., KRIZOVA, L., CERQUEIRA, G.C., MURPHY, C., FELDGARDEN, M., WORTMAN, J., CLERMONT, D., LAMBERT, T., GRILLOT-COURVALIN, C., NEMEC, A., COURVALIN, P., ROCHA, E.P.C. The genomic diversification of the whole *Acinetobacter* genus: origins, mechanisms, and consequences. *Genome Biology and Evolution*. 2014, **6**(10), 2866-2882. ISSN 1759-6653.
61. VÁCHA, R., SÁŇKA, M., HAUPTMAN, I., ZIMOVÁ, M., ČECHMÁNKOVÁ, J. Assessment of limit values of risk elements and persistent organic pollutants in soil for Czech legislation. *Plant Soil and Environment*. 2014, **60**(5), 191-197. ISSN 1214-1178.
62. VANDENHEEDE, H., VIKHIREVA, O., PIKHART, H., KUBINOVA, R., MALYUTINA, S., PAJÁK, A., TAMOSIUNAS, A., PEASEY, A., SIMONOVA, G., TOPOR-MADRY, R., MARMOT, M.G., BOBAK, M. Socioeconomic inequalities in all-cause mortality in the Czech Republic, Russia, Poland and Lithuania in the 2000s: findings from the HAPIEE Study. *Journal of Epidemiology and Community Health*. 2014, **68**(4), 297-303. ISSN 0143-005X.
63. VIKHIREVA, O., BRODA, G., KUBINOVA, R., MALYUTINA, S., PAJÁK, A., TAMOSIUNAS, A., ŠKODOVÁ, Z., SIMONOVA, G., BOBAK, M., PIKHART, H. Does inclusion of education and marital status improve SCORE performance in central and eastern europe and former soviet union? findings from MONICA and HAPIEE cohorts. *PLoS One*. 2014, **9**(4), e94344. ISSN 1932-6203.
64. VIKHIREVA, O., KUBINOVA, R., MALYUTINA, S., PAJAK, A., SIMONOVA, G., BOBAK, M., PIKHART, H. Inclusion of hazardous drinking does not improve the SCORE performance in men from Central and Eastern Europe: the findings from the HAPIEE cohorts. *BMC Public Health*. 2014, **14**, 1187. ISSN 1471-2458.
65. VIKHIREVA, O., PAJÁK, A., BRODA, G., MALYUTINA, S., TAMOSIUNAS, A., KUBINOVA, R., SIMONOVA, G., SKODOVA, Z., BOBAK, M., PIKHART, H. SCORE performance in Central and Eastern Europe and former Soviet Union: MONICA and HAPIEE results. *European heart journal*. 2014, **35**(9), 571-577. ISSN 0195-668X.
66. VILLARINO ROMERO, R., BÍBOVÁ, I., ČERNÝ, O., VEČEREK, B., WALD, T., BENADA,O., ZAVADILOVÁ, J., OSIČKA, R., ŠEBO, P. The Bordetella pertussis type III secretion system tip complex protein Bsp22 is not a protective antigen and fails to elicit serum antibody responses during infection of humans and mice. Correction. *Infection and Immunity*. 2014, **82**(7), 3088. ISSN 0019-9567.
67. VRANA, D., GATEK, J., LUKESOVA, L., VAZAN, T., MELICHAR, B., POSPIŠKOVA, M., SVACH, I. Omission of adjuvant radiation therapy in elderly patients with low risk breast cancer undergoing breast-conserving surgery - two center experience. *Biomedical Papers of the Medical Faculty of Palacký University, Olomouc, Czech Republic*. 2014, **158**(3), 461-464. ISSN 1213-8118.



68. WEDEMEYER, H., DUBERG, A.S., BUTI, M., ROSENBERG, W.M., FRANKOVA, S., ESMAT, G., ÖRMECI, N., VAN VLIERBERGHE, H., GSCHWANTLER, M., AKARCA, U., ALEMAN, S., BALIK, I., BERG, T., BIHL, F., BILODEAU, M., BLASCO, A.J., BRAND~AO MELLO, C.E., BRUGGMANN, P., CALINAS, F., CALLEJA, J.L., CHEINQUER, H., CHRISTENSEN, P.B., CLAUSEN, M., COELHO, H.S.M., CORNBERG, M., CRAMP, M.E., DORE, G.J., DOSS, W., EL-SAYED, M.H., ERGÖR, G., ESTES, C., FALCONER, K., FÉLIX, J., FERRAZ, M.L.G., FERREIRA, P.R., GARCÍA-SAMANIEGO, J., GERSTOFT, J., GIRIA, J.A., GONÇALES JR., F.L., GUIMAR~AES PESSÔA, M., HÉZODE, C., HINDMAN, S.J., HOFER, H., HUSA, P., IDILMAN, R., KABERG, M., KAITA, K.D.E., KAUTZ, A., KAYMAKOGLU, S., KRAJDEN, M., KRARUP, H., LALEMAN, W., LAVANCHY, D., LÁZARO, P., MARINHO, R.T., MAROTTA, P., MAUSS, S., MENDES CORREA, M.C., MORENO, C., MÜLLHAUPT, B., MYERS, R.P., NEMECEK, V., et al. Strategies to manage hepatitis C virus (HCV) disease burden. *Journal of Viral Hepatitis*. 2014, **21**(Suppl.1), 60-89. ISSN 1352-0504.
69. WIESSING, L., FERRI, M., GRADY, B., KANTZANOU, M., SPERLE, I., CULLEN, K.J., EMCDDA DRID GROUP, HATZAKIS, A., PRINS, M., VICKEMAN, P., LAZARUS, J.V., HOPE, V.D., MATHEI, C.; ČÁSTKOVÁ, J., et al. Hepatitis C virus infection epidemiology among people who inject drugs in Europe: a systematic review of data for scaling up treatment and prevention. *PLoS One*. 2014, **9**(7), e103345. ISSN 1932-6203.
70. WOLPIN, B.M, RIZZATO, C., KRAFT, P., KOOPERBERG, C., PETERSEN, G.M., WANG, Z., ARSLAN, A.A., BEANE-FREEMAN, L., BRACCI, P.M., BURING, J., SOUČEK, P., et al. Genome-wide association study identifies multiple susceptibility loci for pancreatic cancer. *Nature Genetics*. 2014, **46**(9), 994-1000. ISSN 1061-4036.
71. YOON, E., GOUSSARD, S., TOUCHON, M., KRIZOVA, L., CERQUEIRA, G., MURPHY, C., LAMBERT, T., GRILLOT-COURVALIN, C., NEMEC, A., COURVALIN, P. Origin in *Acinetobacter guillouiae* and dissemination of the aminoglycoside-modifying enzyme Aph(3')-VI. *mBio*. 2014, **5**(5), e01972-14. ISSN 2150-7511.
72. ZAKHAROV, S., PELCLOVA, D., URBAN, P., NAVRATIL, T., DIBLIK, P., KUTHAN, P., HUBACEK, J.A., MIOVSKY, M., KLEMPIR, J., VANECKOVA, M., SEIDL, Z., PILIN, A., FENCLOVA, Z., PETRIK, V., KOTIKOVA, K., NURIEVA, O., RIDZON, P., RULISEK, J., KOMARC, M., HOVDA, K.E. Czech mass methanol outbreak 2012: epidemiology, challenges and clinical features. *Clinical Toxicology (Phila)*. 2014, **52**(10), 1013-1024. ISSN 1556-3650.
73. ZEMAN, P., BENES, C. Peri-urbanisation, counter-urbanisation, and an extension of residential exposure to ticks: A clue to the trends in Lyme borreliosis incidence in the Czech Republic? *Ticks and Tick-Borne Diseases*. 2014, **5**(6), 907-916. ISSN 1877-959X.