

## TOP 1

1. ADRIAENSSENS, T., M. JONER, T. C. GODSCHALK, N. MALIK, et al. Optical Coherence Tomography Findings in Patients With Coronary Stent Thrombosis A Report of the PRESTIGE Consortium (Prevention of Late Stent Thrombosis by an Interdisciplinary Global European Effort). *Circulation*, Sep 2017, 136(11), 1007-+.
2. MOTOVSKA, Z., O. HLINOMAZ, P. KALA AND P.-. INVESTIGATORS Response by Motovska et al to Letter Regarding Article, "Prasugrel Versus Ticagrelor in Patients With Acute Myocardial Infarction Treated With Primary Percutaneous Coronary Intervention: Multicenter Randomized PRAGUE-18 Study". *Circulation*, Apr 2017, 135(15), e887-e888.

## TOP 5

3. BENDICKOVA, K., F. TIDU AND J. FRIC Calcineurin-NFAT signalling in myeloid leucocytes: new prospects and pitfalls in immunosuppressive therapy. *Embo Molecular Medicine*, Aug 2017, 9(8), 990-999.
4. BRAZDIL, M., M. PAIL, J. HALAMEK, F. PLESINGER, et al. Very High-Frequency Oscillations: Novel Biomarkers of the Epileptogenic Zone. *Annals of Neurology*, Aug 2017, 82(2), 299-310.
5. DI BIASE, S., H. S. SHIM, K. H. KIM, M. VINCIGUERRA, et al. Fasting regulates EGR1 and protects from glucose- and dexamethasone-dependent sensitization to chemotherapy. *Plos Biology*, Mar 2017, 15(3), 21.
6. DI MARCO, S., Z. HASANOVA, R. KANAGARAJ, N. CHAPPIDI, et al. RECQL Helicase Cooperates with MUS81 Endonuclease in Processing Stalled Replication Forks at Common Fragile Sites during Mitosis. *Molecular Cell*, Jun 2017, 66(5), 658-+.
7. DVORAK, P., P. I. NIKEL, J. DAMBORSKY AND V. DE LORENZO Bioremediation 3.0: Engineering pollutant-removing bacteria in the times of systemic biology. *Biotechnology Advances*, Nov 2017, 35(7), 845-866.
8. GUDERNOVA, I., S. FOLDYNOVA-TRANTIRKOVA, B. EL GHANNAMOVA, B. FAFILEK, et al. One reporter for in-cell activity profiling of majority of protein kinase oncogenes. *Elife*, Feb 2017b, 6, 14.
9. HAMPL, M., P. CELA, H. L. SZABO-ROGERS, M. KUNOVA BOSAKOVA, et al. Role of Primary Cilia in Odontogenesis. *Journal of Dental Research*, Aug 2017, 96(9), 965-974.
10. CHALUPA, D., P. VOJACKOVA, J. PARTL, D. PAVLOVIC, et al. Enantioselective Synthesis of Cephalimysins B and C. *Organic Letters*, Feb 2017, 19(4), 750-753.
11. KATSANOS, A. H., A. FILIPPATOU, E. MANIOS, S. DEFTEREOS, et al. Blood Pressure Reduction and Secondary Stroke Prevention: A Systematic Review and Metaregression Analysis of Randomized Clinical Trials. *Hypertension*, Jan 2017, 69(1), 171-179.
12. KOLINJIVADI, A. M., V. SANNINO, A. DE ANTONI, K. ZADOROZHNY, et al. Smarcal1-Mediated Fork Reversal Triggers Mre11-Dependent Degradation of Nascent DNA in the Absence of Brca2 and Stable Rad51 Nucleofilaments. *Molecular Cell*, Sep 2017, 67(5), 867-+.

13. KRELL-ROESCH, J., P. VEMURI, A. PINK, R. O. ROBERTS, et al. Association Between Mentally Stimulating Activities in Late Life and the Outcome of Incident Mild Cognitive Impairment, With an Analysis of the APOE epsilon 4 Genotype. *Jama Neurology*, Mar 2017, 74(3), 330-336.
14. MARQUES, S. M., L. DANIEL, T. BURYSKA, Z. PROKOP, et al. Enzyme Tunnels and Gates As Relevant Targets in Drug Design. *Medicinal Research Reviews*, Sep 2017a, 37(5), 1095-1139.
15. MOLLENHAUER, M., K. FRIEDRICHHS, M. LANGE, J. GESENBERG, et al. Myeloperoxidase Mediates Postischemic Arrhythmogenic Ventricular Remodeling. *Circulation Research*, Jun 2017, 121(1), 56-+.
16. MUSIL, M., J. STOURAC, J. BENDL, J. BREZOVSKY, et al. FireProt: web server for automated design of thermostable proteins. *Nucleic Acids Research*, Jul 2017, 45(W1), W393-W399.
17. NARDONE, G., J. O. D. LA CRUZ, J. VRBSKY, C. MARTINI, et al. YAP regulates cell mechanics by controlling focal adhesion assembly. *Nature Communications*, May 2017, 8, 13.
18. SEBESTA, M., M. URULANGODI, B. STEFANOVICE, B. SZAKAL, et al. Esc2 promotes Mus81 complex-activity via its SUMO-like and DNA binding domains. *Nucleic Acids Research*, Jan 2017, 45(1), 215-230.
19. SEKELOVA, Z., H. STEPANOVA, O. POLANSKY, K. VARMUZOVA, et al. Differential protein expression in chicken macrophages and heterophils in vivo following infection with *Salmonella Enteritidis*. *Veterinary Research*, Jun 2017, 48, 12.
20. SHEMESH, K., M. SEBESTA, M. PACESA, S. SAU, et al. A structure-function analysis of the yeast Elg1 protein reveals the importance of PCNA unloading in genome stability maintenance. *Nucleic Acids Research*, Apr 2017, 45(6), 3189-3203.

## TOP 10

21. CERMAKOVA, P., K. SZUMMER, K. JOHNELL, J. FASTBOM, et al. Management of Acute Myocardial Infarction in Patients With Dementia: Data From SveDem, the Swedish Dementia Registry. *Journal of the American Medical Directors Association*, Jan 2017, 18(1), 19-23.
22. DURAN, I., J. H. MARTIN, M. A. WEIS, P. KREJCI, et al. A Chaperone Complex Formed by HSP47, FKBP65, and BiP Modulates Telopeptide Lysyl Hydroxylation of Type I Procollagen. *Journal of Bone and Mineral Research*, Jun 2017, 32(6), 1309-1319.
23. EDWARDS, J. D., J. J. LISTER, F. R. LIN, R. ANDEL, et al. Association of Hearing Impairment and Subsequent Driving Mobility in Older Adults. *Gerontologist*, Aug 2017, 57(4), 767-775.
24. FAFILEK, B., M. HAMPL, N. RICANKOVA, I. VESELA, et al. Statins do not inhibit the FGFR signaling in chondrocytes. *Osteoarthritis and Cartilage*, Sep 2017, 25(9), 1522-1530.
25. GEORGIEV, Y. N., B. S. PAULSEN, H. KIYOHARA, M. CIZ, et al. Tilia tomentosa pectins exhibit dual mode of action on phagocytes as beta-glucuronic acid monomers are abundant in their rhamnogalacturonans I. *Carbohydrate Polymers*, Nov 2017a, 175, 178-191.
26. GEORGIEV, Y. N., B. S. PAULSEN, H. KIYOHARA, M. CIZ, et al. The common lavender (*Lavandula angustifolia* Mill.) pectic polysaccharides modulate phagocytic leukocytes and intestinal Peyer's patch cells. *Carbohydrate Polymers*, Oct 2017b, 174, 948-959.
27. GODSCHALK, T. C., R. A. BYRNE, T. ADRIAENSSENS, N. MALIK, et al. Observational Study of Platelet Reactivity in Patients Presenting With ST-Segment Elevation Myocardial Infarction Due to Coronary Stent Thrombosis Undergoing Primary Percutaneous Coronary Intervention Results From the European PREvention of Stent Thrombosis by an Interdisciplinary Global European Effort Registry. *Jacc-Cardiovascular Interventions*, Dec 2017, 10(24), 2548-2556.
28. HYLSE, O., L. MAIER, R. KUCERA, T. PERECKO, et al. A Concise Synthesis of Forskolin. *Angewandte Chemie-International Edition*, Oct 2017, 56(41), 12586-12589.
29. HYLSOVA, M., B. CARBAIN, J. FANFRLIK, L. MUSILOVA, et al. Explicit treatment of active-site waters enhances quantum mechanical/implicit solvent scoring: Inhibition of CDK2 by new pyrazolo 1,5-a pyrimidines. *European Journal of Medicinal Chemistry*, Jan 2017, 126, 1118-1128.
30. KRAUSE, H., J. F. KRAEMER, T. PENZEL, J. KURTHS, et al. On the difference of cardiorespiratory synchronisation and coordination. *Chaos*, Sep 2017, 27(9), 7.
31. LISKOVA, V., V. STEPANKOVA, D. BEDNAR, J. BREZOVSKY, et al. Different Structural Origins of the Enantioselectivity of Haloalkane Dehalogenases toward Linear beta-Haloalkanes: Open-Solvated versus Occluded-Desolvated Active Sites. *Angewandte Chemie-International Edition*, Apr 2017, 56(17), 4719-4723.
32. MORENO, L., H. CARON, B. GEOERGER, A. EGGERT, et al. Accelerating drug development for neuroblastoma - New Drug Development Strategy: an Innovative Therapies for Children with Cancer, European Network for Cancer Research in Children and Adolescents and International Society of Paediatric Oncology Europe Neuroblastoma project. *Expert Opinion on Drug Discovery*, Aug 2017, 12(8), 801-811.
33. PACIARONI, M., G. AGNELLI, V. CASO, G. TSIVGOULIS, et al. Prediction of Early Recurrent Thromboembolic Event and Major Bleeding in Patients With Acute Stroke and Atrial Fibrillation by a Risk Stratification Schema The ALESSA Score Study. *Stroke*, Mar 2017, 48(3), 726-732.

34. PAPPAS, C., R. ANDEL, F. J. INFURNA AND S. SEETHARAMAN Glycated haemoglobin (HbA1c), diabetes and trajectories of change in episodic memory performance. *Journal of Epidemiology and Community Health*, Feb 2017, 71(2), 115-120.
35. SCARABEL, L., F. PERRONE, M. GARZIERA, R. FARRA, et al. Strategies to optimize siRNA delivery to hepatocellular carcinoma cells. *Expert Opinion on Drug Delivery*, Jun 2017, 14(6), 797-810.
36. SISAKOVA, A., V. ALTMANNOVA, M. SEBESTA AND L. KREJCI Role of PCNA and RFC in promoting Mus81-complex activity. *Bmc Biology*, Oct 2017, 15, 17.
37. SUBIC, A., P. CERMAKOVA, B. NORRVING, B. WINBLAD, et al. Management of acute ischaemic stroke in patients with dementia. *Journal of Internal Medicine*, Apr 2017, 281(4), 348-364.
38. THOREN, M., E. AZEVEDO, J. DAWSON, J. A. EGIDO, et al. Predictors for Cerebral Edema in Acute Ischemic Stroke Treated With Intravenous Thrombolysis. *Stroke*, Sep 2017, 48(9), 2464-+.
39. TOBALDINI, E., G. COSTANTINO, M. SOLBIATI, C. COGLIATI, et al. Sleep, sleep deprivation, autonomic nervous system and cardiovascular diseases. *Neuroscience and Biobehavioral Reviews*, Mar 2017, 74, 321-329.
40. TSIVGOULIS, G., A. V. ALEXANDROV, A. H. KATSANOS, K. BARLINN, et al. Noninvasive Ventilatory Correction in Patients With Acute Ischemic Stroke A Systematic Review and Meta-Analysis. *Stroke*, Aug 2017a, 48(8), 2285-+.
41. TSIVGOULIS, G., V. A. LIOUTAS, P. VARELAS, A. H. KATSANOS, et al. Direct oral anticoagulant- vs vitamin K antagonist-related nontraumatic intracerebral hemorrhage. *Neurology*, Sep 2017d, 89(11), 1142-1151.
42. VASIANOVICH, Y., V. ALTMANNOVA, O. KOTENKO, M. D. NEWTON, et al. Unloading of homologous recombination factors is required for restoring double-stranded DNA at damage repair loci. *Embo Journal*, Jan 2017, 36(2), 213-231.

## Q1

44. ANGELUCCI, F. AND J. HORT Prolyl isomerase Pin1 and neurotrophins: a loop that may determine the fate of cells in cancer and neurodegeneration. *Therapeutic Advances in Medical Oncology*, Jan 2017, 9(1), 59-62.
45. BALEK, L., I. GUDERNOVA, I. VESELA, M. HAMPL, et al. ARQ 087 inhibits FGFR signaling and rescues aberrant cell proliferation and differentiation in experimental models of craniosynostoses and chondrodysplasias caused by activating mutations in FGFR1, FGFR2 and FGFR3. *Bone*, Dec 2017, 105, 57-66.
46. BLANAROVA, O. V., B. SAFARIKOVA, J. HERUDKOVA, M. KRKOSKA, et al. Cisplatin or LA-12 enhance killing effects of TRAIL in prostate cancer cells through Bid-dependent stimulation of mitochondrial apoptotic pathway but not caspase-10. *Plos One*, Nov 2017, 12(11), 23.
47. BOSTROM, J., Z. SRAMKOVA, A. SALASOVA, H. JOHARD, et al. Comparative cell cycle transcriptomics reveals synchronization of developmental transcription factor networks in cancer cells. *Plos One*, Dec 2017, 12(12), 24.
48. CETKOVSKA, K., H. SUSTOVA AND S. ULDRIJAN Ubiquitin-specific peptidase 48 regulates Mdm2 protein levels independent of its deubiquitinase activity. *Scientific Reports*, Feb 2017, 7, 9.
49. CORDERO, P., J. W. LI, V. NGUYEN, J. POMBO, et al. Developmental Programming of Obesity and Liver Metabolism by Maternal Perinatal Nutrition Involves the Melanocortin System. *Nutrients*, Sep 2017, 9(9), 11.
50. DE LUCA, A., M. PARIANO, B. CELLINI, C. COSTANTINI, et al. The IL-17F/IL-17RC Axis Promotes Respiratory Allergy in the Proximal Airways. *Cell Reports*, Aug 2017, 20(7), 1667-1680.
51. DEVOTO, V. M. P., N. DIMOPOULOS, M. ALLOATTI, M. B. PARDE, et al. alpha Synuclein control of mitochondrial homeostasis in human-derived neurons is disrupted by mutations associated with Parkinson's disease. *Scientific Reports*, Jul 2017, 7, 13.
52. DEVOTO, V. M. P. AND T. L. FALZONE Mitochondrial dynamics in Parkinson's disease: a role for alpha-synuclein? *Disease Models & Mechanisms*, Sep 2017, 10(9), 1075-1087.
53. FIALA, M., V. BULKHOVA, L. SKNOURIL, R. NEVRALOVA, et al. Functional improvement after successful catheter ablation for long-standing persistent atrial fibrillation. *Europace*, Nov 2017b, 19(11), 1781-1789.
54. FRAUSCHER, B., F. BARTOLOMEI, K. KOBAYASHI, J. CIMBALNIK, et al. High-frequency oscillations: The state of clinical research. *Epilepsia*, Aug 2017, 58(8), 1316-1329.
55. GEORGAKIS, M. K., N. G. DIMITRIOU, M. A. KARALEXI, C. MIHAS, et al. Albuminuria in Association with Cognitive Function and Dementia: A Systematic Review and Meta-Analysis. *Journal of the American Geriatrics Society*, Jun 2017, 65(6), 1190-1198.
56. HERUDKOVA, J., K. PARUCH, P. KHIRSARIYA, K. SOUCEK, et al. Chk1 Inhibitor SCH900776 Effectively Potentiates the Cytotoxic Effects of Platinum-Based Chemotherapeutic Drugs in Human Colon Cancer Cells. *Neoplasia*, Oct 2017, 19(10), 830-841.
57. HYNICHOVA, E., M. VYHNALEK, A. KALINA, L. MARTINKOVI, et al. Cognitive impairment and structural brain changes in patients with clinically isolated syndrome at high risk for multiple sclerosis. *Journal of Neurology*, Mar 2017, 264(3), 482-493.

58. CHLAPEK, P., K. ZITTERBART, L. KREN, L. FILIPOVA, et al. Uniformity under in vitro conditions: Changes in the phenotype of cancer cell lines derived from different medulloblastoma subgroups. *Plos One*, Feb 2017, 12(2), 14.
59. JOSE, S. S., K. BENDICKOVA, T. KEPAK, Z. KRENOVA, et al. Chronic inflammation in immune Aging: Role of Pattern Recognition Receptor Crosstalk with the Telomere Complex? *Frontiers in Immunology*, Sep 2017, 8, 10.
60. KAUSHIK, S., Z. PROKOP, J. DAMBORSKY AND R. CHALOUPKOVA Kinetics of binding of fluorescent ligands to enzymes with engineered access tunnels. *Febs Journal*, Jan 2017, 284(1), 134-148.
61. LACOVICH, V., S. L. ESPINDOLA, M. ALLOATTI, V. P. DEVOTO, et al. Tau Isoforms Imbalance Impairs the Axonal Transport of the Amyloid Precursor Protein in Human Neurons. *Journal of Neuroscience*, Jan 2017, 37(1), 58-69.
62. LACZO, J., R. ANDEL, Z. NEDELSKA, M. VYHNALEK, et al. Exploring the contribution of spatial navigation to cognitive functioning in older adults. *Neurobiology of Aging*, Mar 2017a, 51, 67-70.
63. MAIER, L., P. KHIRSARIYA, O. HYLSE, S. K. ADLA, et al. Diastereoselective Flexible Synthesis of Carbocyclic C-Nucleosides. *Journal of Organic Chemistry*, Apr 2017, 82(7), 3382-3402.
64. MARQUES, S. M., Z. DUNAJOVA, Z. PROKOP, R. CHALOUPKOVA, et al. Catalytic Cycle of Haloalkane Dehalogenases Toward Unnatural Substrates Explored by Computational Modeling. *Journal of Chemical Information and Modeling*, Aug 2017b, 57(8), 1970-1989.
65. MAYER, O., J. SEIDLEROVA, P. WOHLFAHRT, J. FILIPOVSKY, et al. Synergistic effect of low K and D vitamin status on arterial stiffness in a general population. *Journal of Nutritional Biochemistry*, Aug 2017, 46, 83-89.
66. MAZANCOVA, A. F., T. NIKOLAI, H. STEPANKOVA, M. KOPECEK, et al. The Reliability of Clock Drawing Test Scoring Systems Modeled on the Normative Data in Healthy Aging and Nonamnestic Mild Cognitive Impairment. *Assessment*, Oct 2017, 24(7), 945-957.
67. MAZURENKO, S., A. KUNKA, K. BEERENS, C. M. JOHNSON, et al. Exploration of Protein Unfolding by Modelling Calorimetry Data from Reheating. *Scientific Reports*, Nov 2017, 7, 14.
68. NAUMCZYK, P., A. SABISZ, M. WITKOWSKA, B. GRAFF, et al. Compensatory functional reorganization may precede hypertension-related brain damage and cognitive decline: a functional magnetic resonance imaging study. *Journal of Hypertension*, Jun 2017, 35(6), 1252-1262.
69. ONDRUSOVA, K., J. SVACINOVA, M. JAVORKA, J. NOVAK, et al. Impaired Baroreflex Function during Orthostatic Challenge in Patients after Spinal Cord Injury. *Journal of Neurotrauma*, Dec 2017, 34(24), 3381-3387.
70. PINDJAKOVA, J., C. SARTINI, O. LO RE, F. RAPPA, et al. Gut Dysbiosis and Adaptive Immune Response in Diet-induced Obesity vs. Systemic Inflammation. *Frontiers in Microbiology*, Jun 2017, 8, 19.
71. POSPISIL, P., T. KAZDA, L. HYNKOVA, M. BULIK, et al. Post-WBRT cognitive impairment and hippocampal neuronal depletion measured by in vivo metabolic MR spectroscopy: Results of prospective investigational study. *Radiotherapy and Oncology*, Mar 2017, 122(3), 373-379.
72. RADASZKIEWICZ, K. A., D. SYKOROVA, L. BINO, J. KUDOVA, et al. The acceleration of cardiomyogenesis in embryonic stem cells in vitro by serum depletion does not increase the number of developed cardiomyocytes. *Plos One*, Mar 2017, 12(3), 17.
73. RUZEK, L., K. SVOBODOVA, L. J. OLSON, O. LUDKA, et al. Increased microcirculatory heterogeneity in patients with obstructive sleep apnea. *Plos One*, Sep 2017, 12(9), 10.

74. SAMADDER, P., T. SUCHANKOVA, O. HYLSE, P. KHIRSARIYA, et al. Synthesis and Profiling of a Novel Potent Selective Inhibitor of CHK1 Kinase Possessing Unusual N-trifluoromethylpyrazole Pharmacophore Resistant to Metabolic N-dealkylation. *Molecular Cancer Therapeutics*, Sep 2017, 16(9), 1831-1842.
75. SAXENA, S., S. RUIA, S. PRASAD, A. JAIN, et al. INCREASED SERUM LEVELS OF UREA AND CREATININE ARE SURROGATE MARKERS FOR DISRUPTION OF RETINAL PHOTORECEPTOR EXTERNAL LIMITING MEMBRANE AND INNER SEGMENT ELLIPSOID ZONE IN TYPE 2 DIABETES MELLITUS. *Retina-the Journal of Retinal and Vitreous Diseases*, Feb 2017, 37(2), 344-349.
76. SIOKAS, V., E. DARDIOTIS, E. E. TSIRONI, G. TSIVGOULIS, et al. The Role of TOR1A Polymorphisms in Dystonia: A Systematic Review and Meta-Analysis. *Plos One*, Jan 2017, 12(1), 19.
77. SLABAKOVA, E., Z. CULIG, J. REMSIK AND K. SOUCEK Alternative mechanisms of miR-34a regulation in cancer. *Cell Death & Disease*, Oct 2017, 8, 10.
78. STAREK, Z., F. LEHAR, J. JEZ, M. SCUREK, et al. Three-dimensional rotational angiography of the left atrium and the oesophagus: the short-term mobility of the oesophagus and the stability of the fused three-dimensional model of the left atrium and the oesophagus during catheter ablation for atrial fibrillation. *Europace*, Aug 2017a, 19(8), 1310-1316.
79. STREIT, L., J. JAROS, V. SEDLAKOVA, M. SEDLACKOVA, et al. A Comprehensive In Vitro Comparison of Preparation Techniques for Fat Grafting. *Plastic and Reconstructive Surgery*, Mar 2017, 139(3), 670E-682E.
80. TOLPPANEN, H., R. L. MERCEDES, J. LASSUS, M. SADOUNE, et al. Combined Measurement of Soluble ST2 and Amino-Terminal Pro-B-Type Natriuretic Peptide Provides Early Assessment of Severity in Cardiogenic Shock Complicating Acute Coronary Syndrome. *Critical Care Medicine*, Jul 2017a, 45(7), E666-E673.
81. TSIVGOULIS, G., A. H. KATSANOS, P. KADLECOVA, A. CZLONKOWSKA, et al. Intravenous thrombolysis for patients with in-hospital stroke onset: propensity-matched analysis from the Safe Implementation of Treatments in Stroke-East registry. *European Journal of Neurology*, Dec 2017b, 24(12), 1493-1498.
82. TSIVGOULIS, G., A. H. KATSANOS, P. KADLECOVA, A. CZLONKOWSKA, et al. Intravenous thrombolysis for ischemic stroke in the golden hour: propensity-matched analysis from the SITS-EAST registry. *Journal of Neurology*, May 2017c, 264(5), 912-920.
83. TYLICOVA, Z., N. STRAKOVA, J. VONDRAČEK, A. H. VACULOVA, et al. Activation of autophagy and PPAR gamma protect colon cancer cells against apoptosis induced by interactive effects of butyrate and DHA in a cell type-dependent manner: The role of cell differentiation. *Journal of Nutritional Biochemistry*, Jan 2017, 39, 145-155.
84. VALIANATOS, G., B. VALCIKOVA, K. GROWKOVA, A. VERLANDE, et al. A small molecule drug promoting miRNA processing induces alternative splicing of MdmX transcript and rescues p53 activity in human cancer cells overexpressing MdmX protein. *Plos One*, Oct 2017, 12(10), 18.
85. VANOVÁ, T., Z. KONECNA, Z. ZBONAKOVA, G. LA VENUTA, et al. Tyrosine Kinase Expressed in Hepatocellular Carcinoma, TEC, Controls Pluripotency and Early Cell Fate Decisions of Human Pluripotent Stem Cells via Regulation of Fibroblast Growth Factor-2 Secretion. *Stem Cells*, Sep 2017, 35(9), 2050-2059.

86. VERESCAKOVA, H., G. AMBROZOVA, L. KUBALA, T. PERECKO, et al. Nitro-oleic acid regulates growth factor-induced differentiation of bone marrow-derived macrophages. *Free Radical Biology and Medicine*, Mar 2017, 104, 10-19.
87. WOHLFAHRT, P., R. CIFKOVA, N. MOVSISYAN, S. KUNZHOVA, et al. Reference values of cardio-ankle vascular index in a random sample of a white population. *Journal of Hypertension*, Nov 2017a, 35(11), 2238-2244.
88. WOHLFAHRT, P., V. MELENOVSKY, M. M. REDFIELD, T. P. OLSON, et al. Aortic Waveform Analysis to Individualize Treatment in Heart Failure. *Circulation-Heart Failure*, Feb 2017b, 10(2), 10.
89. WOHLFAHRT, P., S. ROKOSNY, V. MELENOVSKY, B. A. BORLAUG, et al. Cardiac remodeling after reduction of high-flow arteriovenous fistulas in end-stage renal disease: methodological issues Reply. *Hypertension Research*, Apr 2017c, 40(4), 411-411.
90. WSZEDYBYL-WINKLEWSKA, M., J. WOLF, E. SWIERBLEWSKA, K. KUNICKA, et al. Increased inspiratory resistance affects the dynamic relationship between blood pressure changes and subarachnoid space width oscillations. *Plos One*, Jun 2017, 12(6), 13.
91. ZADOROZHNY, K., V. SANNINO, O. BELAN, J. MLCOUSKOVA, et al. Fanconi-Anemia-Associated Mutations Destabilize RAD51 Filaments and Impair Replication Fork Protection. *Cell Reports*, Oct 2017, 21(2), 333-340.
92. ZELANTE, T., A. Y. W. WONG, A. MENCARELLI, S. FOO, et al. Impaired calcineurin signaling in myeloid cells results in downregulation of pentraxin-3 and increased susceptibility to aspergillosis. *Mucosal Immunology*, Mar 2017, 10(2), 470-480.
93. ZHANG, X. Z., J. W. KANTELHARDT, X. S. DONG, D. KREFTING, et al. Nocturnal Dynamics of Sleep-Wake Transitions in Patients With Narcolepsy. *Sleep*, Feb 2017b, 40(2), 8.

## Q2

95. BABKOVA, P., E. SEBESTOVA, J. BREZOVSKY, R. CHALOUPKOVA, et al. Ancestral Haloalkane Dehalogenases Show Robustness and Unique Substrate Specificity. *Chembiochem*, Jul 2017, 18(14), 1448-1456.
96. BAGHERPOOR, A. J., D. DOLEZALOVA, T. BARTA, M. KUCIREK, et al. Properties of Human Embryonic Stem Cells and Their Differentiated Derivatives Depend on Nonhistone DNA-Binding HMGB1 and HMGB2 Proteins. *Stem Cells and Development*, Mar 2017, 26(5), 328-340.
97. BELL, T., A. L. DAVILA, O. CLAY, K. S. MARKIDES, et al. The association between cognitive decline and incident depressive symptoms in a sample of older Puerto Rican adults with diabetes. *International Psychogeriatrics*, Aug 2017, 29(8), 1317-1325.
98. BIANCO, J., D. CARRADORI, R. DEUMENS AND A. DES RIEUX Rapid Serum-Free Isolation of Oligodendrocyte Progenitor Cells from Adult Rat Spinal Cord. *Stem Cell Reviews and Reports*, Aug 2017, 13(4), 499-512.
99. BOAZ, T. L., M. A. BECKER, R. ANDEL AND N. MCCUTCHAN Rehospitalization risk factors for psychiatric treatment among elderly Medicaid beneficiaries following hospitalization for a physical health condition. *Aging & Mental Health*, 2017, 21(3), 297-303.
100. BOHACIAKOVA, D., T. RENZOVA, V. FEDOROVA, M. BARAK, et al. An Efficient Method for Generation of Knockout Human Embryonic Stem Cells Using CRISPR/Cas9 System. *Stem Cells and Development*, Nov 2017, 26(21), 1521-1527.
101. ESKANDARI, D., D. ZOU, L. GROTE, H. SCHNEIDER, et al. Independent associations between arterial bicarbonate, apnea severity and hypertension in obstructive sleep apnea. *Respiratory Research*, Jun 2017, 18, 9.
102. FARAGO, P., B. TUKA, E. TOTH, N. SZABO, et al. Interictal brain activity differs in migraine with and without aura: resting state fMRI study. *Journal of Headache and Pain*, Jan 2017b, 18, 9.
103. GOYAL, N., G. TSIVGOULIS, S. IFTIKHAR, Y. KHORCHID, et al. Admission systolic blood pressure and outcomes in large vessel occlusion strokes treated with endovascular treatment. *Journal of Neurointerventional Surgery*, May 2017, 9(5), 451-+.
104. HALIB, N., F. PERRONE, M. CEMAZAR, B. DAPAS, et al. Potential Applications of Nanocellulose-Containing Materials in the Biomedical Field. *Materials*, Aug 2017, 10(8), 31.
105. HULICIAK, M., V. BAZGIER, K. BERKA AND M. KUBALA RH421 binds into the ATP-binding site on the Na+/K+-ATPase. *Biochimica Et Biophysica Acta-Biomembranes*, Oct 2017, 1859(10), 2113-2122.
106. KARGIOTIS, O., G. MAGOUFIS, A. SAFOURIS, A. H. KATSANOS, et al. Mechanical Thrombectomy for Acute Middle Cerebral Artery Occlusion Caused by a Giant, Thrombosed, Extracranial Internal Carotid Artery Aneurysm. *Journal of Clinical Neurology*, Apr 2017, 13(2), 196-198.
107. KLAAS, J. P., S. BRAKSICK, J. MANDREKAR, P. SEDOVA, et al. Factors Associated with the Need for Intensive Care Unit Admission Following Supratentorial Intracerebral Hemorrhage: The Triage ICH Model. *Neurocritical Care*, Aug 2017, 27(1), 75-81.
108. KOLAROVA, L., L. PROKES, L. KUCERA, A. HAMPL, et al. Clusters of Monoisotopic Elements for Calibration in (TOF) Mass Spectrometry. *Journal of the American Society for Mass Spectrometry*, Mar 2017, 28(3), 419-427.

109. KUCERA, J., J. NETUSILOVA, S. SLADECEK, M. LANOVA, et al. Hypoxia Downregulates MAPK/ERK but Not STAT3 Signaling in ROS-Dependent and HIF-1-Independent Manners in Mouse Embryonic Stem Cells. *Oxidative Medicine and Cellular Longevity*, 2017, 2017, 16.
110. LACZO, J., H. MARKOVA, V. LOBELLOVA, I. GAZOVA, et al. Scopolamine disrupts place navigation in rats and humans: a translational validation of the Hidden Goal Task in the Morris water maze and a real maze for humans. *Psychopharmacology*, Feb 2017b, 234(4), 535-547.
111. LANE, A. P., T. D. WINDSOR, R. ANDEL AND M. A. LUSCZCZ Is Occupational Complexity Associated with Cognitive Performance or Decline? Results from the Australian Longitudinal Study of Ageing. *Gerontology*, 2017, 63(6), 550-559.
112. LAZARO-IBANEZ, E., T. R. LUNAVAT, S. C. JANG, C. ESCOBEDO-LUCEA, et al. Distinct prostate cancer-related mRNA cargo in extracellular vesicle subsets from prostate cell lines. *Bmc Cancer*, Feb 2017, 17, 11.
113. LENART, P., F. ZLAMAL, J. MACHAL, O. HLINOMAZ, et al. Increased age-adjusted hazard of death associated with a common single nucleotide polymorphism of the human RAD52 gene in a cardiovascular cohort. *Mechanisms of Ageing and Development*, Oct 2017, 167, 56-63.
114. LENCESOVA, L., I. SZADVARI, P. BABULA, J. KUBICKOVA, et al. Disruption of dopamine D1/D2 receptor complex is involved in the function of haloperidol in cardiac H9c2 cells. *Life Sciences*, Dec 2017, 191, 186-194.
115. LEPPANEN, T., J. TOYRAS, E. MERVAALA, T. PENZEL, et al. Severity of individual obstruction events increases with age in patients with obstructive sleep apnea. *Sleep Medicine*, Sep 2017, 37, 32-37.
116. LO RE, O. AND M. VINCIGUERRA Histone MacroH2A1: A Chromatin Point of Intersection between Fasting, Senescence and Cellular Regeneration. *Genes*, Dec 2017, 8(12), 14.
117. LUDKA, O., R. STEPANOVA, F. SERT-KUNIYOSHI, J. SPINAR, et al. Differential likelihood of NSTEMI vs STEMI in patients with sleep apnea. *International Journal of Cardiology*, Dec 2017, 248, 64-68.
118. MARKOVA, H., R. ANDEL, H. STEPANKOVA, M. KOPECEK, et al. Subjective Cognitive Complaints in Cognitively Healthy Older Adults and Their Relationship to Cognitive Performance and Depressive Symptoms. *Journal of Alzheimers Disease*, 2017, 59(3), 871-881.
119. MAWALE, R. M., M. V. AUSEKAR, D. PAVLINAK, O. GALMIZ, et al. Laser Desorption Ionization Quadrupole Ion Trap Time-of-Flight Mass Spectrometry of Au (m) Fe (n) (+/-) Clusters Generated from Gold-Iron Nanoparticles and their Giant Nanoflowers. *Electrochemical and/or Plasma Assisted Synthesis*. *Journal of the American Society for Mass Spectrometry*, Feb 2017, 28(2), 215-223.
120. MELUZIN, J., Z. STAREK, T. KULIK, J. JEZ, et al. Prevalence and Predictors of Early Heart Failure With Preserved Ejection Fraction in Patients With Paroxysmal Atrial Fibrillation. *Journal of Cardiac Failure*, Jul 2017b, 23(7), 558-562.
121. MUDRY, P., O. SLABY, J. NERADIL, J. SOUKALOVA, et al. Case report: rapid and durable response to PDGFR targeted therapy in a child with refractory multiple infantile myofibromatosis and a heterozygous germline mutation of the PDGFRB gene. *Bmc Cancer*, Feb 2017, 17, 7.
122. NAVRATILOVA, J., M. KARASOVA, M. K. LANOVA, L. JIRAKOVA, et al. Selective elimination of neuroblastoma cells by synergistic effect of Akt kinase inhibitor and tetrathiomolybdate. *Journal of Cellular and Molecular Medicine*, Sep 2017, 21(9), 1859-1869.
123. NEHYBOVA, T., J. SMARDA, L. DANIEL, M. STIBOREK, et al. Wedelolactone Acts as Proteasome Inhibitor in Breast Cancer Cells. *International Journal of Molecular Sciences*, Apr 2017, 18(4), 14.

124. NEKARDOVA, M., L. VYMETALOVA, P. KHIRSARIYA, S. KOVACOVA, et al. Structural Basis of the Interaction of Cyclin-Dependent Kinase 2 with Roscovitine and Its Analogues Having Bioisosteric Central Heterocycles. *Chemphyschem*, Apr 2017, 18(7), 785-795.
125. NEMETH, V. L., A. MUST, S. HORVATH, A. KIRALY, et al. Gender-Specific Degeneration of Dementia-Related Subcortical Structures Throughout the Lifespan. *Journal of Alzheimers Disease*, 2017, 55(3), 865-880.
126. NIE, X. L., Y. SUN, S. R. WAN, H. ZHAO, et al. Subregional Structural Alterations in Hippocampus and Nucleus Accumbens Correlate with the Clinical Impairment in Patients with Alzheimers Disease Clinical Spectrum: Parallel Combining Volume and Vertex-Based Approach. *Frontiers in Neurology*, Aug 2017, 8, 9.
127. ORALOVA, V., E. MATALOVA, M. KILLINGER, L. KNOPFOVA, et al. Osteogenic Potential of the Transcription Factor c-MYB. *Calcified Tissue International*, Mar 2017, 100(3), 311-322.
128. PAIL, M., P. REHULKA, J. CIMBALNIK, I. DOLEZALOVA, et al. Frequency-independent characteristics of high-frequency oscillations in epileptic and non-epileptic regions. *Clinical Neurophysiology*, Jan 2017, 128(1), 106-114.
129. PANEBIANCO, C., J. A. OBEN, M. VINCIGUERRA AND V. PAZIENZA Senescence in hepatic stellate cells as a mechanism of liver fibrosis reversal: a putative synergy between retinoic acid and PPAR-gamma signalings. *Clinical and Experimental Medicine*, Aug 2017, 17(3), 269-280.
130. PAPADIMITROPOULOS, G. N., S. LACHANIS, C. ZOMPOLA, O. KARGIOTIS, et al. Laminar Cortical Hypointensities in Susceptibility-Weighted Imaging in a Case of Progressive Multifocal Leukoencephalopathy. *Journal of Clinical Neurology*, Apr 2017, 13(2), 201-202.
131. PARIZKOVA, M., R. ANDEL, O. LERCH, H. MARKOVA, et al. Homocysteine and Real-Space Navigation Performance among Non-Demented Older Adults. *Journal of Alzheimers Disease*, 2017, 55(3), 951-964.
132. PETER, R., P. KORFIATIS, D. BLEZEK, A. O. BEITIA, et al. A quantitative symmetry-based analysis of hyperacute ischemic stroke lesions in noncontrast computed tomography. *Medical Physics*, Jan 2017, 44(1), 192-199.
133. SEJKOROVA, A., K. DENNIS, H. SVIHLOVA, O. PETR, et al. Hemodynamic changes in a middle cerebral artery aneurysm at follow-up times before and after its rupture: a case report and a review of the literature. *Neurosurgical Review*, Apr 2017a, 40(2), 329-338.
134. SOEDA, J., P. CORDERO, J. W. LI, A. MOURALIDARANE, et al. Hepatic rhythmicity of endoplasmic reticulum stress is disrupted in perinatal and adult mice models of high-fat diet-induced obesity. *International Journal of Food Sciences and Nutrition*, Jun 2017, 68(4), 455-466.
135. SPISAK, T., Z. POZSGAY, C. ARANYI, S. DAVID, et al. CENTRAL SENSITIZATION-RELATED CHANGES OF EFFECTIVE AND FUNCTIONAL CONNECTIVITY IN THE RAT INFLAMMATORY TRIGEMINAL PAIN MODEL. *Neuroscience*, Mar 2017, 344, 133-147.
136. SRAMEK, M., J. NERADIL AND R. VESELSKA Much more than you expected: The non-DHFR-mediated effects of methotrexate. *Biochimica Et Biophysica Acta-General Subjects*, Mar 2017, 1861(3), 499-503.
137. TOLPPANEN, H., M. RIVAS-LASARTE, J. LASSUS, J. SANS-ROSELLO, et al. Adrenomedullin: a marker of impaired hemodynamics, organ dysfunction, and poor prognosis in cardiogenic shock. *Annals of Intensive Care*, Jan 2017b, 7, 10.

138. VALIS, M., J. MASOPUST, O. VYSATA, J. HORT, et al. Concentration of Donepezil in the Cerebrospinal Fluid of AD Patients: Evaluation of Dosage Sufficiency in Standard Treatment Strategy. *Neurotoxicity Research*, Jan 2017, 31(1), 162-168.
139. VECERA, J., J. KUDOVA, J. KUCERA, L. KUBALA, et al. Neural Differentiation Is Inhibited through HIF1 alpha/ beta-Catenin Signaling in Embryoid Bodies. *Stem Cells International*, 2017, 2017, 12.
140. VESELKA, J., L. FABER, M. LIEBREGTS, R. COOPER, et al. Outcome of Alcohol Septal Ablation in Mildly Symptomatic Patients With Hypertrophic Obstructive Cardiomyopathy: A Long-Term Follow-Up Study Based on the Euro-Alcohol Septal Ablation Registry. *Journal of the American Heart Association*, May 2017, 6(5), 6.
141. VYHNÁLEK, M., E. RUBINOVA, H. MARKOVA, T. NIKOLAI, et al. Clock drawing test in screening for Alzheimer's dementia and mild cognitive impairment in clinical practice. *International Journal of Geriatric Psychiatry*, Sep 2017, 32(9), 933-939.

### Q3

142. BAR, M., J. KRAL, T. JONSZTA, V. MARCIAN, et al. Interrater variability for CT angiography evaluation between neurologists and neuroradiologist in acute stroke patients. *British Journal of Radiology*, 2017, 90(1071), 7.
143. BECKER, M. A., T. L. BOAZ, R. ANDEL AND S. HAFNER Risk of Early Rehospitalization for Non-Behavioral Health Conditions Among Adult Medicaid Beneficiaries with Severe Mental Illness or Substance Use Disorders. *Journal of Behavioral Health Services & Research*, Jan 2017, 44(1), 113-121.
144. BELASKOVA, S. AND E. FISEROVA Improvement of the Accuracy in Testing the Effect in the Cox Proportional Hazards Model Using Higher Order Approximations. *Filomat*, 2017, 31(18), 5591-5601.
145. CMIEL, V., J. SKOPALIK, K. POLAKOVA, J. SOLAR, et al. Rhodamine bound maghemite as a long-term dual imaging nanoprobe of adipose tissue-derived mesenchymal stromal cells. *European Biophysics Journal with Biophysics Letters*, Jul 2017, 46(5), 433-444.
146. CUNDRLE, I., V. K. SOMERS, P. SINGH, B. D. JOHNSON, et al. Sex differences in leptin modulate ventilation in heart failure. *Heart & Lung*, May-Jun 2017, 46(3), 187-191.
147. DARDIOTIS, E., V. SIOKAS, T. ZAFEIRIDIS, K. PATERAKIS, et al. Integrins AV and B8 Gene Polymorphisms and Risk for Intracerebral Hemorrhage in Greek and Polish Populations. *Neuromolecular Medicine*, Mar 2017, 19(1), 69-80.
148. FARAGO, P., N. SZABO, E. TOTH, B. TUKA, et al. Ipsilateral Alteration of Resting State Activity Suggests That Cortical Dysfunction Contributes to the Pathogenesis of Cluster Headache. *Brain Topography*, Mar 2017a, 30(2), 281-289.
149. FARRA, R., G. GRASSI, F. TONON, M. ABRAMI, et al. The Role of the Transcription Factor E2F1 in Hepatocellular Carcinoma. *Current Drug Delivery*, 2017, 14(2), 272-281.
150. GOLDBERGOVA, M. P., J. JARKOVSKY, J. LIPKOVA, S. LITTNEROVA, et al. Relationship of long-term prognosis to MMP and TIMP polymorphisms in patients after ST elevation myocardial infarction. *Journal of Applied Genetics*, Aug 2017, 58(3), 331-341.
151. HEJCL, A., F. CIHLAR, V. SMOLKA, P. VACHATA, et al. Chemical angioplasty with spasmolytics for vasospasm after subarachnoid hemorrhage. *Acta Neurochirurgica*, Apr 2017a, 159(4), 713-720.
152. JURAK, P., J. HALAMEK, J. MELUZIN, F. PLESINGER, et al. Ventricular dyssynchrony assessment using ultra-high frequency ECG technique. *Journal of Interventional Cardiac Electrophysiology*, Sep 2017a, 49(3), 245-254.
153. JURAK, P., J. HALAMEK, V. VONDRA, P. KRUZLIAK, et al. Respiratory induced heart rate variability during slow mechanical ventilation Marker to exclude brain death patients. *Wiener Klinische Wochenschrift*, Apr 2017b, 129(7-8), 251-258.
154. KAUR, S., A. C. BIRD SILL, K. STEWARD, E. PASCHA, et al. Higher visceral fat is associated with lower cerebral N-acetyl-aspartate ratios in middle-aged adults. *Metabolic Brain Disease*, Jun 2017, 32(3), 727-733.
155. KREFTING, D., C. JANSEN, T. PENZEL, F. HAN, et al. Age and gender dependency of physiological networks in sleep. *Physiological Measurement*, May 2017, 38(5), 959-975.

156. PANOVSKY, R., J. BOROVA, M. PLEVA, V. FEITOVA, et al. The unique value of cardiovascular magnetic resonance in patients with suspected acute coronary syndrome and culprit-free coronary angiograms. *Bmc Cardiovascular Disorders*, Jun 2017, 17, 8.
157. PESL, M., J. PRIBYL, G. CALUORI, V. CMIEL, et al. Phenotypic assays for analyses of pluripotent stem cell-derived cardiomyocytes. *Journal of Molecular Recognition*, Jun 2017, 30(6), 14.
158. PINK, A., S. A. PRZYBELSKI, J. KRELL-ROESCH, G. B. STOKIN, et al. Cortical Thickness and Anxiety Symptoms Among Cognitively Normal Elderly Persons: The Mayo Clinic Study of Aging. *Journal of Neuropsychiatry and Clinical Neurosciences*, Win 2017, 29(1), 60-66.
159. PLEVA, L., P. KUKLA, J. ZAPLETALOVA AND O. HLINOMAZ Efficacy of a seal-wing paclitaxel-eluting balloon catheters in the treatment of bare metal stent restenosis. *Bmc Cardiovascular Disorders*, Jun 2017, 17, 9.
160. QING, Z., W. P. LI, Z. NEDELSKA, W. B. WU, et al. Spatial Navigation Impairment Is Associated with Alterations in Subcortical Intrinsic Activity in Mild Cognitive Impairment: A Resting-State fMRI Study. *Behavioural Neurology*, 2017, 2017, 9.
161. RONZHINA, M., V. OLEJNICKOVA, T. STRACINA, M. NOVAKOVA, et al. Effect of increased left ventricle mass on ischemia assessment in electrocardiographic signals: rabbit isolated heart study. *Bmc Cardiovascular Disorders*, Aug 2017, 17, 11.
162. SEJKOROVA, A., O. PETR, M. MULINO, J. CIHLAR, et al. Management of posterior inferior cerebellar artery aneurysms: What factors play the most important role in outcome? *Acta Neurochirurgica*, Mar 2017b, 159(3), 549-558.
163. SHIWANI, H. A., R. B. PHARITHI, B. KHAN, C. BINOUN-A-EGOM, et al. An update on the 2014 Ebola outbreak in western Africa. *Asian Pacific Journal of Tropical Medicine*, Jan 2017, 10(1), 6-10.
164. SUMEC, R., I. REKTOROVA, R. JECH, K. MENSIKOVA, et al. Motion and emotion: anxiety-axial connections in Parkinson's disease. *Journal of Neural Transmission*, Mar 2017a, 124(3), 369-377.
165. VOLNY, O., P. CIMFLOVA, T. Y. LEE, B. K. MENON, et al. Permeability surface area product analysis in malignant brain edema prediction - A pilot study. *Journal of the Neurological Sciences*, May 2017c, 376, 206-210.
166. VORISEK, I., M. SYKA AND L. VARGOVA Brain Diffusivity and Structural Changes in the R6/2 Mouse Model of Huntington Disease. *Journal of Neuroscience Research*, Jul 2017, 95(7), 1474-1484.

**Q4**

167. ACCIARRESI, M., M. PACIARONI, G. AGNELLI, N. FALOCCI, et al. Prestroke CHA(2)DS(2)-VASc Score and Severity of Acute Stroke in Patients with Atrial Fibrillation: Findings from RAF Study. *Journal of Stroke & Cerebrovascular Diseases*, Jun 2017, 26(6), 1363-1368.
168. BENDOVA, V., M. BUMBALEK AND S. KATINA Cox proportional hazard model and its application to data analysis of failure of endodontic equipment. *Biomedical Papers-Olomouc*, 2017, 161, S1-S11.
169. BRYNDZIAR, T., P. SEDOVA AND R. MIKULIK Stroke Incidence in Europe - a Systematic Review. *Ceska a Slovenska Neurologie a Neurochirurgie*, 2017, 80(2), 180-189.
170. BUDINSKAYA, K., V. PUCHNEROVA, J. SVACINOVA, J. NOVAK, et al. Non-Invasive Assessment of Vascular System Function and Damage Induced by Anthracycline Treatment in the Pediatric Cancer Survivors. *Physiological Research*, 2017, 66, S553-S560.
171. CHMATALOVA, Z., M. VYHNALEK, J. LACZO, J. HORT, et al. Relation of Plasma Selenium and Lipid Peroxidation End Products in Patients With Alzheimer's Disease. *Physiological Research*, 2017, 66(6), 1049-1056.
172. FIALA, J., O. SOCHOR, H. KLIMUSOVA AND M. HOMOLKA ALCOHOL CONSUMPTION IN POPULATION AGED 25-65 YEARS LIVING IN THE METROPOLIS OF SOUTH MORAVIA, CZECH REPUBLIC. *Central European Journal of Public Health*, Sep 2017a, 25(3), 191-199.
173. HEJCL, A., H. SVIHLOVA, A. SEJKOROVA, T. RADOVNICKY, et al. Computational Fluid Dynamics of a Fatal Ruptured Anterior Communicating Artery Aneurysm. *Journal of Neurological Surgery Part a-Central European Neurosurgery*, Nov 2017b, 78(6), 610-616.
174. HEJCL, A., K. VONDRAKOVA, P. KELBICH, M. SAMES, et al. A Model of Cerebral Vasospasms and Metabolomic Mapping. *Chemicke Listy*, Jan 2017c, 111(1), 56-61.
175. HLASENSKY, J., L. ZIKMUND-GALKOVA AND O. LUDKA Sleep apnea prevalence in chronic heart failure patients with severe left ventricle systolic dysfunction. *Biomedical Papers-Olomouc*, 2017, 161, S12-S14.
176. HLAVACOVA, M., V. OLEJNICKOVA, M. RONZHINA, T. STRACINA, et al. Tolerance of Isolated Rabbit Hearts to Short Ischemic Periods Is Affected by Increased LV Mass Fraction. *Physiological Research*, 2017, 66(4), 581-589.
177. HLOZKOVA, J., P. SCHEER, I. UHRIKOVA, P. SUCHY, et al. Comparison of various methods of ischaemic cardioprotection on vitality of rat heart grafts. *Acta Veterinaria Brno*, 2017, 86(2), 199-206.
178. HOFER, M., Z. HOFEROVA, L. DUSEK, K. SOUCEK, et al. Hematological Profile of Untreated or Ionizing Radiation-Exposed Cyclooxygenase-2-Deficient Mice. *Physiological Research*, 2017, 66(4), 673-676.
179. KUNZOVA, S., J. FIALA, P. RIMAK AND P. KANOVSKY EFFECT OF PRIMARY PREVENTIVE EXAMINATION WITH CARDIORESPIRATORY FITNESS TEST. *Central European Journal of Public Health*, Jun 2017, 25(2), 96-105.
180. MACH, L., H. BEDANOVA, M. SOUCEK, M. KARPISEK, et al. Impact of cardiopulmonary bypass surgery on cytokines in epicardial adipose tissue: comparison with subcutaneous fat. *Perfusion-Uk*, May 2017, 32(4), 279-284.

181. MARCINIAK, R., J. SEREK, K. SHEARDOVA, D. HUDECEK, et al. SHALOM questionnaire psychometric characteristics of elderly Czech population. *Ceskoslovenska Psychologie*, 2017, 61(3), 230-244.
182. MATEJKOVA, M., L. SOUKUP AND V. VONDRA Measurement of blood filling in lower limbs by bioimpedance method. *Biomedical Papers-Olomouc*, 2017, 161, S15-S19.
183. MELUZIN, J., Z. STAREK, T. KULIK, J. JEZ, et al. Improvement in the prediction of exercise-induced elevation of left ventricular filling pressure in patients with normal left ventricular ejection fraction. *Echocardiography-a Journal of Cardiovascular Ultrasound and Allied Techniques*, Jan 2017a, 34(1), 78-86.
184. MESTANIK, M., A. JURKO, B. SPRONCK, A. P. AVOLIO, et al. Improved assessment of arterial stiffness using corrected cardio-ankle vascular index (CAVI(0)) in overweight adolescents with white-coat and essential hypertension. *Scandinavian Journal of Clinical & Laboratory Investigation*, 2017, 77(8), 665-672.
185. REHAKOVA, D., K. KUTALKOVA AND I. KOUTNA Standardized hiPSCs culture - vitronectin coating for cGMP compliant protocol. *Biomedical Papers-Olomouc*, 2017, 161, S25-S28.
186. REMSIK, J., R. FEDR AND K. SOUCEK Identification of cytokine secretory site in samples derived from heterogeneous tissue. *Biomedical Papers-Olomouc*, 2017, 161, S20-S24.
187. SAFOURIS, A., O. KARGIOTIS, G. MAGOUFIS, A. H. KATSANOS, et al. Early Neurological Deterioration During Alteplase Infusion for Acute Ischemic Stroke: An Uncommon Complication of Intravenous Thrombolysis. *Neurologist*, May 2017, 22(3), 90-91.
188. SEDOVA, P., R. D. BROWN, M. ZVOLSKY, P. KADLECOVA, et al. Incidence of Hospitalized Stroke in the Czech Republic: The National Registry of Hospitalized Patients. *Journal of Stroke & Cerebrovascular Diseases*, May 2017, 26(5), 979-986.
189. STAREK, Z., F. LEHAR, J. JEZ, J. WOLF, et al. Comparison of radiation exposure, contrast agent consumption and cost effectiveness between computer tomography and 3D rotational angiography of the left atrium to guide catheter ablation in patients with atrial fibrillation. *Biomedical Papers-Olomouc*, 2017b, 161, S29-S34.
190. STAREK, Z., F. LEHAR, J. JEZ, J. WOLF, et al. Detailed analysis of the relationship between the left atrium and esophagus in patients prior to catheter ablation of atrial fibrillation: an analysis using 3D computed tomography. *Biomedical Papers-Olomouc*, 2017c, 161, S42-S49.
191. STAREK, Z., J. WOLF, F. LEHAR, J. JEZ, et al. Feasibility and safety of right and left ventricular three-dimensional rotational angiography for guiding catheter ablation of ventricular arrhythmias. *Biomedical Papers-Olomouc*, 2017d, 161, S35-S41.
192. STELCL, M., S. BELASKOVA, S. MACHAC, E. FISEROVA, et al. Antimullerian hormone (AMH) levels and antral follicle count (AFC) as predictors of the ovarian reaction in young healthy women. *Biomedical Papers-Olomouc*, 2017, 161, S50-S53.
193. SUMEC, R., K. SHEARDOVA, R. MARCINIAK, A. JELENIK, et al. Meditation's impact on cognitive functions in mild cognitive impairment: A pilot study. *Biomedical Papers-Olomouc*, 2017b, 161, S54-S56.
194. TESAROVA, L., P. SIMARA, S. STEJSKAL AND I. KOUTNA Hematopoietic Developmental Potential of Human Pluripotent Stem Cell Lines Is Accompanied by the Morphology of Embryoid Bodies and the Expression of Endodermal and Hematopoietic Markers. *Cellular Reprogramming*, Aug 2017, 19(4), 270-284.

195. VALDES, E. G., M. L. O'CONNOR, E. Y. UC, R. A. HAUSER, et al. Use, maintenance and dose effects of cognitive speed of processing training in Parkinson's disease. *International Journal of Neuroscience*, 2017, 127(10), 841-848.
196. VOLNY, O., M. BAR, A. KRAJINA, P. CIMFLOVA, et al. A Comprehensive Nationwide Evaluation of Stroke Centres in the Czech Republic Performing Mechanical Thrombectomy in Acute Stroke in 2016. *Ceska a Slovenska Neurologie a Neurochirurgie*, 2017a, 80(4), 445-450.
197. VOLNY, O., P. CIMFLOVA, P. KADLECOVA, P. VANEK, et al. Single-Phase Versus Multiphase CT Angiography in Middle Cerebral Artery Clot Detection-Benefits for Less Experienced Radiologists and Neurologists. *Journal of Stroke & Cerebrovascular Diseases*, Jan 2017b, 26(1), 19-24.
198. VOLNY, O., P. CIMFLOVA AND V. SZEDER Inter-Rater Reliability for Thrombolysis in Cerebral Infarction with TICI 2c Category. *Journal of Stroke & Cerebrovascular Diseases*, May 2017d, 26(5), 992-994.

N/A

199. ANTONENKO, K., M. PACIARONI, G. AGNELLI, N. FALOCCI, et al. Sex-related differences in risk factors, type of treatment received and outcomes in patients with atrial fibrillation and acute stroke: Results from the RAF-study (Early Recurrence and Cerebral Bleeding in Patients with Acute Ischemic Stroke and Atrial Fibrillation). *European Stroke Journal*, Mar 2017, 2(1), 46-53.
200. BINO, L., J. PROCHAZKOVA, K. A. RADASZKIEWICZ, J. KUCERA, et al. Hypoxia favors myosin heavy chain beta gene expression in an Hif-1alpha-dependent manner. *Oncotarget*, Oct 2017, 8(48), 83684-83697.
201. FISCHER, C., M. GLOS, T. PENZEL AND I. FIETZE Extended algorithm for real-time pulse waveform segmentation and artifact detection in photoplethysmograms. *Somnologie*, Jun 2017, 21(2), 110-120.
202. GUDERNOVA, I., L. BALEK, M. VARECHA, J. F. KUCEROVA, et al. Inhibitor repurposing reveals ALK, LTK, FGFR, RET and TRK kinases as the targets of AZD1480. *Oncotarget*, Dec 2017a, 8(65), 109319-109331.
203. CHOBOLA, M., J. HRUDA, M. LUKES, J. KLIMES, et al. Comparison of cardiac output monitoring with the Pulse Wave Transit Time technique versus arterial waveform analysis. *Anesteziologie a Intenzivni Medicina*, 2017, 28(6), 339-345.
204. KHADJEVAND, F., J. CIMBALNIK AND G. A. WORRELL Progress and remaining challenges in the application of high frequency oscillations as biomarkers of epileptic brain. *Current Opinion in Biomedical Engineering*, Dec 2017, 4, 87-96.
205. MIKOLASKOVA, M., O. LUDKA, P. ONDRIKOVA, V. HORVATH, et al. Penetrating injury to the heart. *Cor Et Vasa*, Oct 2017, 59(5), E520-E523.
206. NAGY, A., J. LIPOLODOVA, M. NOVAK AND R. STEPANOVA Occurrence of implantable cardioverter-defibrillator therapy in clinical practice. *Cor Et Vasa*, Jun 2017, 59(3), E215-E221.
207. NOVAK, M., P. FILA, O. HLINOMAZ AND V. ZAMPACHOVA The First Manifestation of a Left Atrial Myxoma as a Consequence of Multiple Left Coronary Artery Embolisms. *Journal of Critical Care Medicine*, Jul 2017, 3(3), 111-117.
208. RUMPIKOVA, T., I. OBORNA, S. BELASKOVA AND D. RUMPIK How is the Czech oocyte donor? The analysis of their profile. *Ceska Gynekologie-Czech Gynaecology*, 2017, 82(5), 372-382.
209. VONDRAKCOVA, L. AND R. MIKULIK Public stroke education: Current status worldwide and projects to increase awareness in the Czech Republic. *Cor Et Vasa*, Dec 2017, 59(6), E546-E552.
210. ZHANG, B., L. NI, F. F. WANG, W. P. LI, et al. Effective doctor-patient communication skills training optimizes functional organization of intrinsic brain architecture: a resting-state functional MRI study. *Journal of Biomedical Research*, 2017a, 31(6), 486-493.