

## TOP 1

1. COQUEL, F., M. J. SILVA, H. TECHER, K. ZADOROZHNY, et al. SAMHD1 acts at stalled replication forks to prevent interferon induction. *Nature*, May 2018, 557(7703), 57-+.
2. COUGHLAN, G., J. LACZO, J. HORT, A. M. MINIHANE, et al. Spatial navigation deficits - overlooked cognitive marker for preclinical Alzheimer disease? *Nature Reviews Neurology*, Aug 2018, 14(8), 496-506.
3. HART, R. G., M. SHARMA, H. MUNDL, S. E. KASNER, et al. Rivaroxaban for Stroke Prevention after Embolic Stroke of Undetermined Source. *New England Journal of Medicine*, Jun 2018, 378(23), 2191-2201.
4. JANOVSKA, P., J. VERNER, J. KOHOUTEK, L. BRYJOVA, et al. Casein kinase 1 is a therapeutic target in chronic lymphocytic leukemia. *Blood*, Mar 2018, 131(11), 1206-1218.

## TOP 5

5. ACHBERGEROVA, E., D. SMEJKALOVA, G. HUERTA-ANGELES, K. SOUCEK, et al. In vivo monitoring of tumor distribution of hyaluronan polymeric micelles labeled or loaded with near-infrared fluorescence dye. *Carbohydrate Polymers*, Oct 2018, 198, 339-347.
6. BALEK, L., M. BUCHTOVA, M. K. BOSAKOVA, M. VARECHA, et al. Nanodiamonds as "artificial proteins": Regulation of a cell signalling system using low nanomolar solutions of inorganic nanocrystals. *Biomaterials*, Sep 2018a, 176, 106-121.
7. CSUKASI, F., I. DURAN, M. BARAD, T. BARTA, et al. The PTH/PTHrP-SIK3 pathway affects skeletogenesis through altered mTOR signaling. *Science Translational Medicine*, Sep 2018, 10(459), 11.
8. GASPAR, N., L. V. MARSHALL, D. BINNER, R. HEROLD, et al. Joint adolescent-adult early phase clinical trials to improve access to new drugs for adolescents with cancer: proposals from the multi-stakeholder platform-ACCELERATE. *Annals of Oncology*, Mar 2018, 29(3), 766-771.
9. GOYAL, N., G. TSIVGOULIS, D. FREI, A. TURK, et al. Comparative safety and efficacy of combined IVT and MT with direct MT in large vessel occlusion. *Neurology*, Apr 2018a, 90(15), E1274-E1282.
10. GURAGAIN, H., J. CIMBALNIK, M. STEAD, D. M. GROPE, et al. Spatial variation in high-frequency oscillation rates and amplitudes in intracranial EEG. *Neurology*, Feb 2018, 90(8), E639-E646.
11. MAZURENKO, S., J. STOURAC, A. KUNKA, S. NEDELJKOVIC, et al. CalFitter: a web server for analysis of protein thermal denaturation data. *Nucleic Acids Research*, Jul 2018b, 46(W1), W344-W349.
12. MENDONCA, F., S. S. MOSTAFA, A. G. RAVELO-GARCIA, F. MORGADO-DIAS, et al. Devices for home detection of obstructive sleep apnea: A review. *Sleep Medicine Reviews*, Oct 2018, 41, 149-160.
13. MENON, B. K., F. S. AL-AJLAN, M. NAJM, J. PUIG, et al. Association of Clinical, Imaging, and Thrombus Characteristics With Recanalization of Visible Intracranial Occlusion in Patients With Acute Ischemic Stroke. *Jama-Journal of the American Medical Association*, Sep 2018, 320(10), 1017-1026.
14. MOTOVSKA, Z., O. HLINOMAZ, P. KALA, M. HROMADKA, et al. 1-Year Outcomes of Patients Undergoing Primary Angioplasty for Myocardial Infarction Treated With Prasugrel Versus Ticagrelor. *Journal of the American College of Cardiology*, Jan 2018, 71(4), 371-381.

15. SPIREK, M., J. MLCOUSKOVA, O. BELAN, M. GYIMESI, et al. Human RAD51 rapidly forms intrinsically dynamic nucleoprotein filaments modulated by nucleotide binding state. *Nucleic Acids Research*, May 2018, 46(8), 3967-3980.
16. SUMBALOVA, L., J. STOURAC, T. MARTINEK, D. BEDNAR, et al. HotSpot Wizard 3.0: web server for automated design of mutations and smart libraries based on sequence input information. *Nucleic Acids Research*, Jul 2018, 46(W1), W356-W362.
17. VOJACKOVA, P., D. CHALUPA, J. PRIEBOJ, M. NECAS, et al. Enantioselective Conjugate Additions of 2-Alkoxy carbonyl-3(2H)-furanones. *Organic Letters*, Nov 2018, 20(22), 7085-7089.
18. WSZEDYBYL-WINKLEWSKA, M., J. WOLF, A. SZARMACH, P. J. WINKLEWSKI, et al. Central sympathetic nervous system reinforcement in obstructive sleep apnoea. *Sleep Medicine Reviews*, Jun 2018, 39, 143-154.

## TOP 10

19. ACIMOVIC, I., M. M. REFAAT, A. MOREAU, A. SALYKIN, et al. Post-Translational Modifications and Diastolic Calcium Leak Associated to the Novel RyR2-D3638A Mutation Lead to CPVT in Patient-Specific hiPSC-Derived Cardiomyocytes. *Journal of Clinical Medicine*, Nov 2018, 7(11), 22.
20. BEERENS, K., S. MAZURENKO, A. KUNKA, S. M. MARQUES, et al. Evolutionary Analysis As a Powerful Complement to Energy Calculations for Protein Stabilization. *ACS Catalysis*, Oct 2018, 8(10), 9420-9428.
21. GRANITZA, P., J. F. KRAEMER, C. SCHOEBEL, T. PENZEL, et al. Is dynamic desaturation better than a static index to quantify the mortality risk in heart failure patients with Cheyne-Stokes respiration? *Chaos*, Oct 2018, 28(10), 6.
22. HRUSKOVA, J., A. MAUGERI, H. PODROUZKOVA, T. STIPALOVA, et al. Association of Cardiovascular Health with Epicardial Adipose Tissue and Intima Media Thickness: The KardioVize Study. *Journal of Clinical Medicine*, May 2018, 7(5), 13.
23. KLINKE, A., E. BERGHAUSEN, K. FRIEDRICH, S. MOLZ, et al. Myeloperoxidase aggravates pulmonary arterial hypertension by activation of vascular Rho-kinase. *JCI Insight*, Jun 2018, 3(11), 17.
24. KOKKONEN, P., J. SYKORA, Z. PROKOP, A. GHOSE, et al. Molecular Gating of an Engineered Enzyme Captured in Real Time. *Journal of the American Chemical Society*, Dec 2018b, 140(51), 17999-18008.
25. LO RE, O., C. FUSILLI, F. RAPPA, M. VAN HAELE, et al. Induction of cancer cell stemness by depletion of macrohistone H2A1 in hepatocellular carcinoma. *Hepatology*, Feb 2018b, 67(2), 636-650.
26. MANCHANDA, K., H. KOLAROVA, C. KERKENPASS, M. MOLLENHAUER, et al. MPO (Myeloperoxidase) Reduces Endothelial Glycocalyx Thickness Dependent on Its Cationic Charge. *Arteriosclerosis Thrombosis and Vascular Biology*, Aug 2018, 38(8), 1859-1867.
27. MENCARELLI, A., H. J. KHAMENEH, J. FRIC, M. VACCA, et al. Calcineurin-mediated IL-2 production by CD11c(high)MHCII(+) myeloid cells is crucial for intestinal immune homeostasis. *Nature Communications*, Mar 2018, 9, 15.
28. SAFARIKOVA, E., L. S. SINDLEROVA, S. STRITESKY, L. KUBALA, et al. Evaluation and improvement of organic semiconductors' biocompatibility towards fibroblasts and cardiomyocytes. *Sensors and Actuators B-Chemical*, May 2018, 260, 418-425.
29. SIEURIN, J., R. ANDEL, A. TILLANDER, E. G. VALDES, et al. Occupational Stress and Risk for Parkinson's Disease: A Nationwide Cohort Study. *Movement Disorders*, Sep 2018, 33(9), 1456-1464.
30. TSIVGOULIS, G., F. GEISLER, A. H. KATSANOS, J. KORV, et al. Ultraearly Intravenous Thrombolysis for Acute Ischemic Stroke in Mobile Stroke Unit and Hospital Settings: A Comparative Analysis. *Stroke*, Aug 2018a, 49(8), 1996-1999.
31. TSIVGOULIS, G., D. WILSON, A. H. KATSANOS, J. SARGENTO-FREITAS, et al. Neuroimaging and clinical outcomes of oral anticoagulant-associated intracerebral hemorrhage. *Annals of Neurology*, Nov 2018b, 84(5), 694-704.
32. VANACEK, P., E. SEBESTOVA, P. BABKOVA, S. BIDMANOVA, et al. Exploration of Enzyme Diversity by Integrating Bioinformatics with Expression Analysis and Biochemical Characterization. *ACS Catalysis*, Mar 2018, 8(3), 2402-2412.

33. VANHARA, P., L. KUCERA, L. PROKES, L. JURECKOVA, et al. Intact Cell Mass Spectrometry as a Quality Control Tool for Revealing Minute Phenotypic Changes of Cultured Human Embryonic Stem Cells. *Stem Cells Translational Medicine*, Jan 2018, 7(1), 109-114.

## Q1

34. AGODI, A., A. MAUGERI, S. KUNZOVA, O. SOCHOR, et al. Association of Dietary Patterns with Metabolic Syndrome: Results from the KardioVize Brno 2030 Study. *Nutrients*, Jul 2018, 10(7), 16.
35. BARTHELDYOVA, E., R. EFFENBERG, J. MASEK, L. PROCHAZKA, et al. Hyaluronic Acid Surface Modified Liposomes Prepared via Orthogonal Aminoxy Coupling: Synthesis of Nontoxic Aminoxy lipids Based on Symmetrically alpha-Branched Fatty Acids, Preparation of Liposomes by Microfluidic Mixing, and Targeting to Cancer Cells Expressing CD44. *Bioconjugate Chemistry*, Jul 2018, 29(7), 2343-2356.
36. BOSAKOVA, M. K., M. VARECHA, M. HAMPL, I. DURAN, et al. Regulation of ciliary function by fibroblast growth factor signaling identifies FGFR3-related disorders achondroplasia and thanatophoric dysplasia as ciliopathies. *Human Molecular Genetics*, Mar 2018, 27(6), 1093-1105.
37. BYRNE, J., D. GRABOW, H. CAMPBELL, K. O'BRIEN, et al. PanCareLIFE: The scientific basis for a European project to improve long-term care regarding fertility, ototoxicity and health-related quality of life after cancer occurring among children and adolescents. *European Journal of Cancer*, Nov 2018, 103, 227-237.
38. CIMBALNIK, J., B. BRINKMANN, V. KREMEN, P. JURAK, et al. Physiological and pathological high frequency oscillations in focal epilepsy. *Annals of Clinical and Translational Neurology*, Sep 2018a, 5(9), 1062-1076.
39. DARIN-MATTSSON, A., R. ANDEL, R. K. CELESTE AND I. KAREHOLT Linking financial hardship throughout the life-course with psychological distress in old age: Sensitive period, accumulation of risks, and chain of risks hypotheses. *Social Science & Medicine*, Mar 2018, 201, 111-119.
40. DVORAK, P., D. BEDNAR, P. VANACEK, L. BALEK, et al. Computer-assisted engineering of hyperstable fibroblast growth factor 2. *Biotechnology and Bioengineering*, Apr 2018, 115(4), 850-862.
41. FAFILEK, B., L. BALEK, M. K. BOSAKOVA, M. VARECHA, et al. The inositol phosphatase SHIP2 enables sustained ERK activation downstream of FGF receptors by recruiting Src kinases. *Science Signaling*, Sep 2018, 11(548), 14.
42. FINKEL, D., R. ANDEL AND N. L. PEDERSEN Gender Differences in Longitudinal Trajectories of Change in Physical, Social, and Cognitive/Sedentary Leisure Activities. *Journals of Gerontology Series B- Psychological Sciences and Social Sciences*, Nov 2018, 73(8), 1491-1500.
43. GOYAL, N., G. TSIVGOULIS, D. FREI, A. TURK, et al. A multicenter study of the safety and effectiveness of mechanical thrombectomy for patients with acute ischemic stroke not meeting top-tier evidence criteria. *Journal of Neurointerventional Surgery*, Jan 2018b, 10(1), 10-16.
44. HAVEL, S., P. KHIRSARIYA, N. AKAVARAM, K. PARUCH, et al. Preparation of 3,4-Substituted-5-Aminopyrazoles and 4-Substituted-2-Aminothiazoles. *Journal of Organic Chemistry*, Dec 2018, 83(24), 15380-15405.
45. HEY, J. A., P. KOCIS, J. HORT, S. ABUSHAKRA, et al. Discovery and Identification of an Endogenous Metabolite of Tramiprosate and Its Prodrug ALZ-801 that Inhibits Beta Amyloid Oligomer Formation in the Human Brain. *Cns Drugs*, Sep 2018, 32(9), 849-861.
46. HUERTA-ANGELES, G., K. NESPOROVA, G. AMBROZOVA, L. KUBALA, et al. An Effective Translation: The Development of Hyaluronan-Based Medical Products From the Physicochemical, and Preclinical Aspects. *Frontiers in Bioengineering and Biotechnology*, May 2018, 6, 13.

47. JURCIK, A., D. BEDNAR, J. BYSKA, S. M. MARQUES, et al. CAVER Analyst 2.0: analysis and visualization of channels and tunnels in protein structures and molecular dynamics trajectories. *Bioinformatics*, Oct 2018, 34(20), 3586-3588.
48. KAUSHIK, S., S. M. MARQUES, P. KHIRSARIYA, K. PARUCH, et al. Impact of the access tunnel engineering on catalysis is strictly ligand-specific. *Febs Journal*, Apr 2018, 285(8), 1456-1476.
49. KHAYAL, L. A., J. GRUNHAGEN, I. PROVAZNIK, S. MUNDLOS, et al. Transcriptional profiling of murine osteoblast differentiation based on RNA-seq expression analyses. *Bone*, Aug 2018, 113, 29-40.
50. KIRALY, A., N. SZABO, A. PARDUTZ, E. TOTH, et al. Macro- and microstructural alterations of the subcortical structures in episodic cluster headache. *Cephalalgia*, Apr 2018, 38(4), 662-673.
51. KNOPFOVA, L., E. BIGLIERI, N. VOLODKO, M. MASARIK, et al. Transcription factor c-Myb inhibits breast cancer lung metastasis by suppression of tumor cell seeding. *Oncogene*, Feb 2018, 37(8), 1020-1030.
52. LO RE, O., J. DOUET, M. BUSCHBECK, C. FUSILLI, et al. Histone variant macroH2A1 rewires carbohydrate and lipid metabolism of hepatocellular carcinoma cells towards cancer stem cells. *Epigenetics*, 2018a, 13(8), 829-845.
53. LO RE, O., C. PANEBIANCO, S. PORTO, C. CERVI, et al. Fasting inhibits hepatic stellate cells activation and potentiates anti-cancer activity of Sorafenib in hepatocellular cancer cells. *Journal of Cellular Physiology*, Feb 2018d, 233(2), 1202-1212.
54. MAUGERI, A., J. R. MEDINA-INOJOSA, S. KUNZOVA, A. AGODI, et al. Sleep Duration and Excessive Daytime Sleepiness Are Associated with Obesity Independent of Diet and Physical Activity. *Nutrients*, Sep 2018c, 10(9), 13.
55. MAYER, O., J. BRUTHANS, J. SEIDLEROVA, P. KARNOSOVA, et al. Prospective study of metabolic syndrome as a mortality marker in chronic coronary heart disease patients. *European Journal of Internal Medicine*, Jan 2018, 47, 55-61.
56. MOVSISYAN, N. K., M. VINCIGUERRA, F. LOPEZ-JIMENEZ, S. KUNZOVA, et al. Kardiovize Brno 2030, a prospective cardiovascular health study in Central Europe: Methods, baseline findings and future directions. *European Journal of Preventive Cardiology*, Jan 2018, 25(1), 54-64.
57. PARIZKOVA, M., O. LERCH, S. D. MOFFAT, R. ANDEL, et al. The effect of Alzheimer's disease on spatial navigation strategies. *Neurobiology of Aging*, Apr 2018, 64, 107-115.
58. PLESINGER, F., P. JURAK, J. HALAMEK, P. NEJEDLY, et al. Ventricular Electrical Delay Measured From Body Surface ECGs Is Associated With Cardiac Resynchronization Therapy Response in Left Bundle Branch Block Patients From the MADIT-CRT Trial (Multicenter Automatic Defibrillator Implantation-Cardiac Resynchronization Therapy). *Circulation-Arrhythmia and Electrophysiology*, May 2018, 11(5), 12.
59. REMSIK, J., R. FEDR, J. NAVRATIL, L. BINO, et al. Plasticity and intratumoural heterogeneity of cell surface antigen expression in breast cancer. *British Journal of Cancer*, Mar 2018b, 118(6), 813-819.
60. RENZOVA, T., D. BOHACIAKOVA, M. ESNER, V. POSPISILOVA, et al. Inactivation of PLK4-STIL Module Prevents Self-Renewal and Triggers p53-Dependent Differentiation in Human Pluripotent Stem Cells. *Stem Cell Reports*, Oct 2018, 11(4), 959-972.
61. ROSSMEISL, M., J. PAVLISOVA, P. JANOVSKA, O. KUDA, et al. Differential modulation of white adipose tissue endocannabinoid levels by n-3 fatty acids in obese mice and type 2 diabetic patients. *Biochimica Et Biophysica Acta-Molecular and Cell Biology of Lipids*, Jul 2018, 1863(7), 712-725.

62. SAFRANKOVA, B., M. HERMANNOVA, K. NESPOROVA, V. VELEBNY, et al. Absence of differences among low, middle, and high molecular weight hyaluronan in activating murine immune cells in vitro. *International Journal of Biological Macromolecules*, Feb 2018, 107, 1-8.
63. SCHMIEDER, R. E., C. OTT, S. W. TOENNES, P. BRAMLAGE, et al. Phase II randomized sham-controlled study of renal denervation for individuals with uncontrolled hypertension - WAVE IV. *Journal of Hypertension*, Mar 2018, 36(3), 680-689.
64. VASICKOVA, K., P. HORAK AND P. VANHARA TUSC3: functional duality of a cancer gene. *Cellular and Molecular Life Sciences*, Mar 2018, 75(5), 849-857.
65. VERLANDE, A., M. KRAFCIKOVA, D. POTESIL, L. TRANTIREK, et al. Metabolic stress regulates ERK activity by controlling KSR-RAF heterodimerization. *Embo Reports*, Feb 2018, 19(2), 320-336.
66. VESELKA, J., L. FABER, M. K. JENSEN, R. COOPER, et al. Effect of Institutional Experience on Outcomes of Alcohol Septal Ablation for Hypertrophic Obstructive Cardiomyopathy. *Canadian Journal of Cardiology*, Jan 2018, 34(1), 16-22.
67. VOLNY, O., A. KRAJINA, S. BELASKOVA, M. BAR, et al. Mechanical thrombectomy performs similarly in real world practice: a 2016 nationwide study from the Czech Republic. *Journal of Neurointerventional Surgery*, Aug 2018b, 10(8), 741-745.
68. VRABLIK, M., K. RASLOVA, B. VOHNOUT, V. BLAHA, et al. Real-life LDL-C treatment goals achievement in patients with heterozygous familial hypercholesterolemia in the Czech Republic and Slovakia: Results of the PLANET registry. *Atherosclerosis*, Oct 2018, 277, 355-361.
69. ZUBAL, L., W. BONANI, D. MANIGLIO, R. CECCATO, et al. Soluble collagen dissolution and assembling in pressurized carbon dioxide water solutions. *Express Polymer Letters*, Feb 2018, 12(2), 159-170.

## Q2

70. ABIZAID, A., S. KEDEV, E. KEDHI, S. TALWAR, et al. Randomised comparison of a biodegradable polymer ultra-thin sirolimus-eluting stent versus a durable polymer everolimus-eluting stent in patients with de novo native coronary artery lesions: the meriT-V trial. *Eurointervention*, Dec 2018, 14(11), 1207-1214.
71. BASOLI, F., S. M. GIANNITELLI, M. GORI, P. MOZETIC, et al. Biomechanical Characterization at the Cell Scale: Present and Prospects. *Frontiers in Physiology*, Nov 2018, 9, 21.
72. BOFFITO, M., F. DI MEGLIO, P. MOZETIC, S. M. GIANNITELLI, et al. Surface functionalization of polyurethane scaffolds mimicking the myocardial microenvironment to support cardiac primitive cells. *Plos One*, Jul 2018, 13(7), 21.
73. CALUORI, G., J. PRIBYL, M. PESL, J. OLIVER-DE LA CRUZ, et al. Advanced and Rationalized Atomic Force Microscopy Analysis Unveils Specific Properties of Controlled Cell Mechanics. *Frontiers in Physiology*, Aug 2018a, 9, 11.
74. CALUORI, G., A. WOJTASZCZYK, M. PESL AND Z. STAREK Irreversible electroporation-Let's keep it cool. *Journal of Cardiovascular Electrophysiology*, Jul 2018b, 29(7), E12-E12.
75. CERMAN, J., A. ROSS, J. LACZO, V. MARTIN, et al. Subjective Spatial Navigation Complaints - A Frequent Symptom Reported by Patients with Subjective Cognitive Decline, Mild Cognitive Impairment and Alzheimer's Disease. *Current Alzheimer Research*, 2018, 15(3), 219-228.
76. CIMBALNIK, J., A. HEWITT, G. WORRELL AND M. STEAD The CS algorithm: A novel method for high frequency oscillation detection in EEG. *Journal of Neuroscience Methods*, Jan 2018b, 293, 6-16.
77. CUNDRLE, I., V. K. SOMERS, P. SINGH, B. D. JOHNSON, et al. Low leptin concentration may identify heart failure patients with central sleep apnea. *Journal of Sleep Research*, Apr 2018a, 27(2), 240-243.
78. DE ZUANI, M., C. DAL SECCO AND B. FROSSI Mast cells at the crossroads of microbiota and IBD. *European Journal of Immunology*, Dec 2018a, 48(12), 1929-1937.
79. DE ZUANI, M., G. PAOLICELLI, T. ZELANTE, G. RENGA, et al. Mast Cells Respond to *Candida albicans* Infections and Modulate Macrophages Phagocytosis of the Fungus. *Frontiers in Immunology*, Nov 2018b, 9, 13.
80. ERB, H. H. H., F. GUGGENBERGER, F. R. SANTER AND Z. CULIG Interleukin-4 induces a CD44(high)/CD49b(high) PC3 subpopulation with tumor-initiating characteristics. *Journal of Cellular Biochemistry*, May 2018, 119(5), 4103-4112.
81. ERGIR, E., B. BACHMANN, H. REDL, G. FORTE, et al. Small Force, Big Impact: Next Generation Organ-on-a-Chip Systems Incorporating Biomechanical Cues. *Frontiers in Physiology*, Oct 2018, 9, 8.
82. FARRA, R., F. MUSIANI, F. PERRONE, M. CEMAZAR, et al. Polymer-Mediated Delivery of siRNAs to Hepatocellular Carcinoma: Variables Affecting Specificity and Effectiveness. *Molecules*, Apr 2018, 23(4), 24.
83. GAMALDO, A. A., A. L. SARDINA, R. T. CORONA, K. WILLINGHAM, et al. The association between educational parameters and a cognitive screening measure in older blacks. *International Psychogeriatrics*, Mar 2018, 30(3), 311-322.



84. GHOSH, S., S. SCOZZARO, A. R. RAMOS, S. DELCAMBRE, et al. Inhibition of SHIP2 activity inhibits cell migration and could prevent metastasis in breast cancer cells. *Journal of Cell Science*, Aug 2018, 131(16), 12.
85. GLOS, M., A. SABIL, K. S. JELAVIC, C. SCHOBEL, et al. Characterization of Respiratory Events in Obstructive Sleep Apnea Using Suprasternal Pressure Monitoring. *Journal of Clinical Sleep Medicine*, 2018, 14(3), 359-369.
86. GOLAN, M., S. JELINKOVA, I. KRATOCHVILOVA, P. SKLADAL, et al. AFM Monitoring the Influence of Selected Cryoprotectants on Regeneration of Cryopreserved Cells Mechanical Properties. *Frontiers in Physiology*, Jun 2018a, 9, 10.
87. CHLAPEK, P., V. SLAVIKOVA, P. MAZANEK, J. STERBA, et al. Why Differentiation Therapy Sometimes Fails: Molecular Mechanisms of Resistance to Retinoids. *International Journal of Molecular Sciences*, Jan 2018, 19(1), 14.
88. JADCZYK, T., K. BARANSKI, M. SYZDOL, E. NABIALEK, et al. Bioactive Sphingolipids, Complement Cascade, and Free Hemoglobin Levels in Stable Coronary Artery Disease and Acute Myocardial Infarction. *Mediators of Inflammation*, 2018a, 2018, 11.
89. JOSE, S. S., F. TIDU, P. BURILOVA, T. KEPAK, et al. The Telomerase Complex Directly Controls Hematopoietic Stem Cell Differentiation and Senescence in an Induced Pluripotent Stem Cell Model of Telomeropathy. *Frontiers in Genetics*, Aug 2018, 9, 19.
90. KAHOUNOVA, Z., D. KURFURSTOVA, J. BOUCHAL, G. KHARAISHVILI, et al. The fibroblast surface markers FAP, anti-fibroblast, and FSP are expressed by cells of epithelial origin and may be altered during epithelial-to-mesenchymal transition. *Cytometry Part A*, Sep 2018a, 93A(9), 941-951.
91. KAHOUNOVA, Z., E. SLABAKOVA, L. BINO, J. REMSIK, et al. Generation of human iPSCs from human prostate cancer-associated fibroblasts IBPi002-A. *Stem Cell Research*, Dec 2018b, 33, 255-259.
92. KLIMES, P., P. JURAK, J. HALAMEK, R. ROMAN, et al. Changes in connectivity and local synchrony after cognitive stimulation - Intracerebral EEG study. *Biomedical Signal Processing and Control*, Aug 2018, 45, 136-143.
93. KLIMOVA, B., K. KUCA, M. VALIS AND J. HORT Role of Nut Consumption in the Management of Cognitive Decline - A Mini-Review. *Current Alzheimer Research*, 2018, 15(9), 877-882.
94. KOKKONEN, P., D. BEDNAR, V. DOCKALOVA, Z. PROKOP, et al. Conformational changes allow processing of bulky substrates by a haloalkane dehalogenase with a small and buried active site. *Journal of Biological Chemistry*, Jul 2018a, 293(29), 11505-11512.
95. KONECNY, T., P. A. BRADY, J. Y. PARK, P. K. REDDY, et al. Usefulness of Heart Rate Control in Atrial Fibrillation Patients With Obstructive Sleep Apnea. *American Journal of Cardiology*, Nov 2018, 122(9), 1482-1488.
96. KOVACOVICOVA, K., M. SKOLNAJA, M. HEINMAA, M. MISTRİK, et al. Senolytic Cocktail Dasatinib+Quercetin (D+Q) Does Not Enhance the Efficacy of Senescence-Inducing Chemotherapy in Liver Cancer. *Frontiers in Oncology*, Oct 2018, 8, 7.
97. KRELL-ROESCH, J., V. J. LOWE, J. NEUREITER, A. PINK, et al. Depressive and anxiety symptoms and cortical amyloid deposition among cognitively normal elderly persons: the Mayo Clinic Study of Aging. *International Psychogeriatrics*, Feb 2018, 30(2), 245-251.
98. KUCIRKOVA, T., M. STIBOREK, M. DUCKA, J. NAVRATILOVA, et al. Anti-cancer effects of wedelolactone: interactions with copper and subcellular localization. *Metallomics*, Oct 2018, 10(10), 1524-1531.

99. LO RE, O., T. MAZZA AND M. VINCIGUERRA Mono-ADP-Ribosylhydrolase MACROD2 Is Dispensable for Murine Responses to Metabolic and Genotoxic Insults. *Frontiers in Genetics*, Dec 2018c, 9, 9.
100. MARTINO, F., A. R. PERESTRELO, V. VINARSKY, S. PAGLIARI, et al. Cellular Mechanotransduction: From Tension to Function. *Frontiers in Physiology*, Jul 2018, 9, 21.
101. MAUGERI, A., S. KUNZOVA, A. AGODI, J. R. MEDINA-INOJOSA, et al. Association between eating time interval and frequency with ideal cardiovascular health: Results from a random sample Czech urban population. *Nutrition Metabolism and Cardiovascular Diseases*, Aug 2018a, 28(8), 847-855.
102. MAUGERI, A., M. G. MAZZONE, F. GIULIANO, M. VINCIGUERRA, et al. Curcumin Modulates DNA Methyltransferase Functions in a Cellular Model of Diabetic Retinopathy. *Oxidative Medicine and Cellular Longevity*, 2018b, 2018, 12.
103. MAZURENKO, S., S. BIDMANOVA, M. KOTLANOVA, J. DAMBORSKY, et al. Sensitive operation of enzyme-based biodevices by advanced signal processing. *Plos One*, Jun 2018a, 13(6), 16.
104. MLEJNEK, D., J. KREJCI, P. HUDE, E. OZABALOVA, et al. Viral genome changes and the impact of viral genome persistence in myocardium of patients with inflammatory cardiomyopathy. *Archives of Medical Science*, Oct 2018, 14(6), 1245-1253.
105. NIKOLAI, T., H. STEPANKOVA, M. KOPECEK, Z. SULC, et al. The Uniform Data Set, Czech Version: Normative Data in Older Adults from an International Perspective. *Journal of Alzheimers Disease*, 2018b, 61(3), 1233-1240.
106. PATTI, C. R., T. PENZEL AND D. CVETKOVIC Sleep spindle detection using multivariate Gaussian mixture models. *Journal of Sleep Research*, Aug 2018, 27(4), 12.
107. PLEVA, L., P. KUKLA, J. ZAPLETALOVA AND O. HLINOMAZ Long-term outcomes after treatment of bare-metal stent restenosis with paclitaxel-coated balloon catheters or everolimus-eluting stents: 3-year follow-up of the TIS clinical study. *Catheterization and Cardiovascular Interventions*, Nov 2018b, 92(6), E416-E424.
108. POROKH, V., P. VANHARA, T. BARTA, L. JURECKOVA, et al. Soluble Cripto-1 Induces Accumulation of Supernumerary Centrosomes and Formation of Aberrant Mitoses in Human Embryonic Stem Cells. *Stem Cells and Development*, Aug 2018, 27(16), 1077-1084.
109. REMSIK, J., L. BINO, Z. KAHOUNOVA, G. KHARAISHVILI, et al. Trop-2 plasticity is controlled by epithelial-to-mesenchymal transition. *Carcinogenesis*, Nov 2018a, 39(11), 1411-1418.
110. SADEQ, N. A., E. G. VALDES, A. L. H. BUSH AND R. ANDEL The Role of Personality in a Regular Cognitive Monitoring Program. *Alzheimer Disease & Associated Disorders*, Jul-Sep 2018, 32(3), 226-231.
111. SEDLAKOVA, V., Z. VORAC, J. JAROS, R. BACOVSKA, et al. Enhanced bioactivity of electrospun PCL and PLLA scaffolds blended with amino-phosphazene. *Materials Letters*, Oct 2018, 228, 339-343.
112. SIMARA, P., L. TESAROVA, D. REHAKOVA, S. FARKAS, et al. Reprogramming of Adult Peripheral Blood Cells into Human Induced Pluripotent Stem Cells as a Safe and Accessible Source of Endothelial Cells. *Stem Cells and Development*, Jan 2018, 27(1), 10-22.
113. SIMECKOVA, S., R. FEDR, J. REMSIK, Z. KAHOUNOVA, et al. Multiparameter cytometric analysis of complex cellular response. *Cytometry Part A*, Feb 2018, 93A(2), 239-248.
114. SKODA, J. AND R. VESELSKA Cancer stem cells in sarcomas: Getting to the stemness core. *Biochimica Et Biophysica Acta-General Subjects*, Oct 2018, 1862(10), 2134-2139.

115. SOUCEK, K., A. MALENOVSKA, Z. KAHOUNOVA, J. REMSIK, et al. Presence of growth/differentiation factor-15 cytokine in human follicular fluid, granulosa cells, and oocytes. *Journal of Assisted Reproduction and Genetics*, Aug 2018, 35(8), 1407-1417.
116. SRAMEK, M., J. NERADIL, P. MACIGOVA, P. MUDRY, et al. Effects of Sunitinib and Other Kinase Inhibitors on Cells Harboring a PDGFRB Mutation Associated with Infantile Myofibromatosis. *International Journal of Molecular Sciences*, Sep 2018, 19(9), 16.
117. STRITESKY, S., A. MARKOVA, J. VITECEK, E. SAFARIKOVA, et al. Printing inks of electroactive polymer PEDOT:PSS: The study of biocompatibility, stability, and electrical properties. *Journal of Biomedical Materials Research Part A*, Apr 2018, 106(4), 1121-1128.
118. URBANOVA, B. S., J. P. SCHWABOVA, H. MAGEROVA, P. JANSKY, et al. Reduced Cerebrovascular Reserve Capacity as a Biomarker of Microangiopathy in Alzheimer's Disease and Mild Cognitive Impairment. *Journal of Alzheimers Disease*, 2018, 63(2), 465-477.
119. VACLAVIK, D., A. VILIONSKIS, D. JATUZIS, M. A. KARLINSKI, et al. Clinical outcome of cardioembolic stroke treated by intravenous thrombolysis. *Acta Neurologica Scandinavica*, Mar 2018b, 137(3), 347-355.
120. VARGOVA, J., J. MIKES, R. JENDZELOVSKY, L. MIKESOVA, et al. Hypericin affects cancer side populations via competitive inhibition of BCRP. *Biomedicine & Pharmacotherapy*, Mar 2018, 99, 511-522.
121. VEAUTHIER, C., S. K. PIPER, G. GAEDE, T. PENZEL, et al. The first night effect in multiple sclerosis patients undergoing home-based polysomnography. *Nature and Science of Sleep*, 2018, 10, 337-344.
122. WOJTASZCZYK, A., G. CALUORI, M. PESL, K. MELAJOVA, et al. Irreversible electroporation ablation for atrial fibrillation. *Journal of Cardiovascular Electrophysiology*, Apr 2018, 29(4), 643-651.
123. WONG, A. Y. W., V. OIKONOMOU, G. PAOLICELLI, A. DE LUCA, et al. Leucine-Rich Repeat Kinase 2 Controls the Ca<sup>2+</sup>/Nuclear Factor of Activated T Cells/IL-2 Pathway during Aspergillus Non-Canonical Autophagy in Dendritic Cells. *Frontiers in Immunology*, Feb 2018, 9, 14.

### Q3

124. BALEK, L., P. NEMEC, P. KONIK, M. K. BOSAKOVA, et al. Proteomic analyses of signalling complexes associated with receptor tyrosine kinase identify novel members of fibroblast growth factor receptor 3 interactome. *Cellular Signalling*, Jan 2018b, 42, 144-154.
125. DAVIDEK, P., R. ANDEL AND A. KOBESOVA Influence of Dynamic Neuromuscular Stabilization Approach on Maximum Kayak Paddling Force. *Journal of Human Kinetics*, Mar 2018, 61(1), 15-27.
126. DOBROTKOVA, V., P. CHLAPEK, P. MAZANEK, J. STERBA, et al. Traffic lights for retinoids in oncology: molecular markers of retinoid resistance and sensitivity and their use in the management of cancer differentiation therapy. *Bmc Cancer*, Nov 2018, 18, 13.
127. GARLIKOVA, Z., A. C. SILVA, A. RABATA, D. POTESIL, et al. Generation of a Close-to-Native In Vitro System to Study Lung Cells-Extracellular Matrix Crosstalk. *Tissue Engineering Part C-Methods*, Jan 2018, 24(1), 1-13.
128. GOLAN, M., J. PRIBYL, M. PESL, S. JELINKOVA, et al. Cryopreserved Cells Regeneration Monitored by Atomic Force Microscopy and Correlated With State of Cytoskeleton and Nuclear Membrane. *Ieee Transactions on Nanobioscience*, Oct 2018b, 17(4), 485-497.
129. CHRAST, L., R. CHALOUPKOVA AND J. DAMBORSKY Gram-scale production of recombinant microbial enzymes in shake flasks. *Fems Microbiology Letters*, Jan 2018, 365(2), 7.
130. JADCZYK, T., J. CIOSEK, A. MICHALEWSKA-WLUDARCZYK, W. SZOT, et al. Effects of trans-endocardial delivery of bone marrow-derived CD133+cells on angina and quality of life in patients with refractory angina: A sub-analysis of the REGENT-VSEL trial. *Cardiology Journal*, Jul 2018b, 25(4), 521-529.
131. JANSEN, C., S. HODEL, T. PENZEL, M. SPOTT, et al. Feature relevance in physiological networks for classification of obstructive sleep apnea. *Physiological Measurement*, Dec 2018, 39(12), 10.
132. KEYNEJAD, R. C., H. MARKOVA, K. SIFFELOVA, N. KUMAR, et al. Spatial navigation deficits in amnesic mild cognitive impairment with neuropsychiatric comorbidity. *Aging Neuropsychology and Cognition*, 2018, 25(2), 277-289.
133. KOCHER, M., D. SANAK, J. ZAPLETALOVA, F. CIHLAR, et al. Mechanical Thrombectomy for Acute Ischemic Stroke in Czech Republic: Technical Results from the Year 2016. *Cardiovascular and Interventional Radiology*, Dec 2018, 41(12), 1901-1908.
134. KREMEN, V., B. H. BRINKMANN, I. KIM, H. GURAGAIN, et al. Integrating Brain Implants With Local and Distributed Computing Devices: A Next Generation Epilepsy Management System. *Ieee Journal of Translational Engineering in Health and Medicine*, 2018, 6, 12.
135. KUNKA, A., J. DAMBORSKY AND Z. PROKOP. Haloalkane Dehalogenases From Marine Organisms. In B.S. MOORE ed. *Marine Enzymes and Specialized Metabolism, Pt B*. San Diego: Elsevier Academic Press Inc, 2018, vol. 605, p. 203-251.
136. LABR, K., J. SPINAR, J. PARENICA, L. SPINAROVA, et al. Renal Functions and Prognosis Stratification in Chronic Heart Failure Patients and the Importance of Neutrophil Gelatinase-Associated Lipocalin. *Kidney & Blood Pressure Research*, 2018, 43(6), 1865-1877.
137. PLEVA, L., P. KUKLA AND O. HLINOMAZ Treatment of coronary in-stent restenosis: a systematic review. *Journal of Geriatric Cardiology*, 2018a, 15(2), 173-184.

138. SPINAROVA, M., J. MELUZIN, H. PODROUZKOVA, R. STEPANOVA, et al. New echocardiographic parameters in the diagnosis of heart failure with preserved ejection fraction. *International Journal of Cardiovascular Imaging*, Feb 2018, 34(2), 229-235.
139. VACLAVIK, D., M. BAR, L. KLECKA, D. HOLES, et al. Prehospital stroke scale (FAST PLUS Test) predicts patients with intracranial large vessel occlusion. *Brain and Behavior*, Sep 2018a, 8(9), 7.
140. VAN DER KOOI, A., E. CLEMENS, L. BROER, O. ZOLK, et al. Genetic variation in gonadal impairment in female survivors of childhood cancer: a PanCareLIFE study protocol. *Bmc Cancer*, Sep 2018, 18, 7.

## Q4

141. ANNUS, A., K. BENCSIK, I. OBAL, Z. T. KINCSES, et al. Paraneoplastic neuromyelitis optica spectrum disorder: A case report and review of the literature. *Journal of Clinical Neuroscience*, Feb 2018, 48, 7-10.
142. CHALASOVA, K., L. PACAL, A. PLESKACOVA, L. KNOPFOVA, et al. Transketolase Activity but not Thiamine Membrane Transport Change in Response to Hyperglycaemia and Kidney Dysfunction. *Experimental and Clinical Endocrinology & Diabetes*, Apr 2018, 126(4), 255-262.
143. CUNDRLE, I., P. SUK, V. SRAMEK, Z. LACINOVA, et al. Circadian Leptin Concentration Changes in Critically Ill Heart Failure Patients. *Physiological Research*, 2018b, 67(3), 505-508.
144. DOUBKOVA, L., R. ANDEL, I. PALASCAKOVA-SPRINGROVA, P. KOLAR, et al. Diastasis of rectus abdominis muscles in low back pain patients. *Journal of Back and Musculoskeletal Rehabilitation*, 2018, 31(1), 107-112.
145. HEJCL, A., M. STRATILOVA, H. SVIHLOVA, J. HRON, et al. Computational fluid dynamics of intracranial aneurysms and its potential contribution in clinical practice from a neurosurgeon's perspective. *Ceska a Slovenska Neurologie a Neurochirurgie*, 2018, 81(5), 532-538.
146. HOFER, M., Z. HOFEROVA, J. REMSIK, M. NOVAKOVA, et al. Hematological Findings in Non-Treated and gamma-Irradiated Mice Deficient for MIC-1/GDF15. *Physiological Research*, 2018, 67(4), 623-636.
147. KASNER, S. E., P. LAVADOS, M. SHARMA, Y. J. WANG, et al. Characterization of Patients with Embolic Strokes of Undetermined Source in the NAVIGATE ESUS Randomized Trial. *Journal of Stroke & Cerebrovascular Diseases*, Jun 2018, 27(6), 1673-1682.
148. KILLU, A. M., N. NAKSUK, F. F. SYED, C. V. DESIMONE, et al. Feasibility of directional percutaneous epicardial ablation with a partially insulated catheter. *Journal of Interventional Cardiac Electrophysiology*, Oct 2018, 53(1), 105-113.
149. KODYTKOVA, D., V. BAJCIOVA, D. KREJCI, M. ZAPLETALOVA, et al. Trends in incidence of childhood cancers in the Czech Republic: population-based analysis of national registries (1994-2014). *Neoplasma*, 2018, 65(4), 620-629.
150. LANGER, P., P. JURAK, V. VONDRA, J. HALAMEK, et al. Respiratory-Induced Hemodynamic Changes Measured by Whole-Body Multichannel Impedance Plethysmography. *Physiological Research*, 2018, 67(4), 571-581.
151. NIKOLAI, T., O. BEZDICEK, H. MARKOVA, H. STEPANKOVA, et al. Semantic verbal fluency impairment is detectable in patients with subjective cognitive decline. *Applied Neuropsychology-Adult*, 2018a, 25(5), 448-457.
152. RUMPIKOVA, T., I. OBORNA, S. BELASKOVA, H. KONECNA, et al. The attitudes of IVF patients treated in the Czech Republic towards informing children born after gamete donation. *Biomedical Papers-Olomouc*, 2018, 162(1), 26-31.
153. SANAK, D., S. JAKUBICEK, D. CERNIK, R. HERZIG, et al. Intravenous Thrombolysis in Patients with Acute Ischemic Stroke after a Reversal of Dabigatran Anticoagulation with Idarucizumab: A Real-World Clinical Experience. *Journal of Stroke & Cerebrovascular Diseases*, Sep 2018, 27(9), 2479-2483.

154. SINHA, D., V. BIALEVICH, K. SHAMAYEVA, A. GUZANOVA, et al. A residue of motif III positions the helicase domains of motor subunit HsdR in restriction-modification enzyme EcoR124I. *Journal of Molecular Modeling*, Jul 2018, 24(7), 11.
155. VOLNY, O., M. JUSTANOVA, P. CIMFLOVA, L. KASICKOVA, et al. 24-Hour Alberta Stroke Program Early CT Score Assessment in Post-Stroke Spasticity Development in Patients with a First Documented Anterior Circulation Ischemic Stroke. *Journal of Stroke & Cerebrovascular Diseases*, Jan 2018a, 27(1), 240-245.
156. ZAND, R., G. TSIVGOULIS, A. SADIGHI, M. SINGH, et al. Safety of Intravenous Thrombolysis in Chronic Intracranial Hemorrhage: A Five-Year Multicenter Study. *Journal of Stroke & Cerebrovascular Diseases*, Mar 2018, 27(3), 620-624.

N/A

157. CAMERON, A. C., J. BOGIE, A. H. ABDUL-RAHIM, N. AHMED, et al. Professional guideline versus product label selection for treatment with IV thrombolysis: An analysis from SITS registry. *European Stroke Journal*, Mar 2018, 3(1), 39-46.
158. COORAY, C., M. V. MAZYA, M. BOTTAI, J. F. SCHEITZ, et al. Are you suffering from a large arterial occlusion? Please raise your arm! *Stroke and Vascular Neurology*, Dec 2018, 3(4), 215-221.
159. FRANCEK, L., O. HLINOMAZ, L. GROCH AND S. BELASKOVA Analysis of time intervals related to STEMI management in 2008-2016. *Cor Et Vasa*, Jun 2018, 60(3), E239-E245.
160. INFURNA, F. J. AND R. ANDEL The Impact of Changes in Episodic Memory Surrounding Retirement on Subsequent Risk of Disability, Cardiovascular Disease, and Mortality. *Work Aging and Retirement*, Jan 2018, 4(1), 10-20.
161. KAZDA, T., D. H. PAFUNDI, A. KRALING, T. BRADLEY, et al. Dosimetric impact of amino acid positron emission tomography imaging for target delineation in radiation treatment planning for high-grade gliomas. *Physics & Imaging in Radiation Oncology*, Apr 2018, 6, 94-100.
162. KINCL, V., R. PANOVSKY, J. MACHAL, J. JANCIK, et al. The long-term effects of individual cardiac rehabilitation in patients with coronary artery disease. *Cor Et Vasa*, Aug 2018, 60(4), E361-E366.
163. MINKS, E., P. JURAK, J. CHLADEK, A. MINKSOVA, et al. Are the subthalamic nucleus, internal globus pallidus and thalamus involved in thinking? *Basal Ganglia*, Nov 2018, 14, 22-30.
164. NORRVING, B., J. BARRICK, A. DAVALOS, M. DICHGANS, et al. Action Plan for Stroke in Europe 2018-2030. *European Stroke Journal*, Dec 2018, 3(4), 309-336.
165. PENZEL, T., M. GLOS, C. SCHOBEL, Z. M. HE, et al. Telemedicine and telemetric recording methods as diagnostic instruments in sleep medicine. *Somnologie*, Sep 2018, 22(3), 199-208.
166. SINGH, P., Y. B. ZHANG, P. SHARMA, N. COVASSIN, et al. Statins decrease leptin expression in human white adipocytes. *Physiological Reports*, Jan 2018, 6(2), 8.
167. SOUCEK, F. AND Z. STAREK Use of Bipolar Radiofrequency Catheter Ablation in the Treatment of Cardiac Arrhythmias. *Current Cardiology Reviews*, 2018, 14(3), 185-191.
168. STAREK, Z., F. LEHAR, J. JEZ, M. SCUREK, et al. Esophageal positions relative to the left atrium; data from 293 patients before catheter ablation of atrial fibrillation. *Indian Heart Journal*, Jan-Feb 2018, 70(1), 37-44.
169. VAN DEN BERG, M., M. VAN DIJK, J. BYRNE, H. CAMPBELL, et al. Fertility Among Female Survivors of Childhood, Adolescent, and Young Adult Cancer: Protocol for Two Pan-European Studies (PanCareLIFE). *Jmir Research Protocols*, Sep 2018, 7(9), 13.