

Seznam publikací a jiných výsledků vědecké práce

Kateřina Komrsková

1. recenzované články v mezinárodních časopisech (cizojazyčné)

Levoux J, Prola A, Lafuste P, Gervais M, Chevallier N, Koumaiha Z, Kefi K, Braud L, Schmitt A, Yacia A, Schirmann A, Hersant B, Sid-Ahmed M, Ben Larbi S, **Komrskova K**, Rohlena J, Relaix F, Neuzil J, Rodriguez AM. Platelets Facilitate the Wound-Healing Capability of Mesenchymal Stem Cells by Mitochondrial Transfer and Metabolic Reprogramming. *Cell Metab.* Dec 24;S1550-4131(20)30661-6. doi: 10.1016/j.cmet.2020.12.006. Epub ahead of print. PMID: 33400911 (IF 21,567)

Kmonickova V, Frolikova M, Steger K, **Komrskova K** (2020) The Role of the LINC Complex in Sperm Development and Function. *Int J Mol Sci.* Nov 28;21(23): E9058. doi: 10.3390/ijms21239058. PMID: 33260574. (IF 4,556)

Jankovičová J, Neuerová Z, Sečová P, Bartóková M, Bubeníčková F, **Komrsková K**, Postlerová P, Antalíková J (2020) Tetraspanins in mammalian reproduction: spermatozoa, oocytes and embryos. *Med Microbiol Immunol.* 2020 Aug;209(4):407-425. doi: 10.1007/s00430-020-00676-0. Epub 2020 May 18. PMID: 32424440 (IF 1,961)

Dostalova P, Zatecka E, Ded L, Elzeinova F, Valaskova E, Kubatova A, Korenkova V, Langerova L, **Komrskova K**, Peknicova J (2020) Gestational and pubertal exposure to low dose of di-(2-ethylhexyl) phthalate impairs sperm quality in adult mice. *Reprod Toxicol.* 2020 Jun 30; 96:175-184. doi: 10.1016/j.reprotox.2020.06.014. PMID: 32619501 (IF 3,121)

Sreerangaraja Urs DB, Wu WH, **Komrskova K**, Postlerova P, Lin YF, Tzeng CR, Kao SH (2020) Mitochondrial Function in Modulating Human Granulosa Cell Steroidogenesis and Female Fertility. *Int J Mol Sci.* 2020 May 19;21(10):3592. doi:10.3390/ijms21103592. PMID: 32438750 (IF 4,556)

Frolikova M, Otcenaskova T, Valasková E, Postlerova P, Stopkova R, Stopka P, **Komrskova K** (2020) The Role of Taste Receptor mTAS1R3 in Chemical Communication of Gametes. *Int J Mol Sci.* 10;21(7). pii: E2651. doi: 10.3390/ijms21072651. PMID: 32290318. (IF 4,556)

Jankovicova J, Frolikova M, Palenikova V, Valaskova E, Cerny J, Secova P, Bartokova M, Horovska L, Manaskova-Postlerova P, Antalikova J, **Komrskova K** (2020) Expression and distribution of CD151 as a partner of alpha6 integrin in male germ cells. *Sci Rep.*, 10(1):4374. doi: 10.1038/s41598-020-61334-2. PMID: 32152440 (IF 4,122)

Bosakova T, Tockstein A, Sebkova N, Cabala R, **Komrskova K** (2020) Kinetic Model of the Action of 17 -Ethinylestradiol on the Capacitation of Mouse Sperm, Monitored by HPLC-MS/MS. *Catalyst* (IF 3,444)

Ded L, Dostalova P, Zatecka E, Dorosh A, **Komrskova K**, Peknicova J (2019) Fluorescent analysis of boar sperm capacitation process in vitro. *Reprod Biol Endocrinol.*, 17(1):109. doi: 10.1186/s12958-019-0554-z. PMID: 31856844 (IF 2,589)

Jankovicova, J, Secova, P, Manaskova-Postlerova, P, Simonik, O, Frolikova, M, Chmelikova, E, Horovska, L, Michalkova, K, **Dvorakova-Hortova K**, Antalikova, J (2019) Detection of CD9 and CD81 tetraspanins in bovine and porcine oocytes and embryos. *Int. J Biol. Macromol.*, 123: 931-938; doi: 10.1016/j.ijbiomac.2018.11.161. ISSN: 0141-8130. (IF 4,784)

Baert Y, **Dvorakova-Hortova K**, Margaryan H, Goossens E (2019) Mouse *in vitro* spermatogenesis on alginate-based 3D bioprinted scaffolds. *Biofabrication*, Apr. 26;11(3):035011. doi: 10.1088/1758-5090/ab1452. (IF 7.236)

Frolikova M, Valaskova E, Cerny J, Lumeau A, Sebkova N, Palenikova V, Sanches-Hernandez N, Pohlova A, Manaskova-Postlerova P, **Dvorakova-Hortova K** (2019) Addressing the compartmentalization of specific integrin heterodimers in mouse sperm. *Int J Mol Sci* 20(5) pii: E1004; doi: 10.3390/ijms20051004. (IF 4.183)

Bajzikova M, Kovarova J, Coelho AR, Boukalova S, Oh S, Rohlenova K, et al Kubista M, Truksa J, **Dvorakova-Hortova K**, Pacak K, Gurlich R, Stocker R, Zhou Y, Berridge MV, Park S, Dong L, Rohlena J, Neuzil J (2019) Reactivation of Dihydroorotate Dehydrogenase-Driven Pyrimidine Biosynthesis Restores Tumor Growth of Respiration-Deficient Cancer Cells. *Cell Metab.*, Nov 9. 29, 399–416. Doi: 10.1016/j.cmet.2018.10.014. (IF 22.415)

Bosakova T, Tockstein A, Sebkova N, Simonik O, Adamusova H, Albrechtova J, Albrecht T, Bosakova Z, **Dvorakova-Hortova K** (2018) New insight into Sperm Capacitation: A Novel Mechanism of 17 β -Estradiol Signalling. *Int J Mol Sci.* Dec 12;19(12). pii: E4011. doi: 10.3390/ijms19124011. (IF 3.687)

Jankovicova J, Secova P, Manaskova-Postlerova P, Simonik O, Frolikova M, Chmelikova E, Horovska L, Michalkova K, **Dvorakova-Hortova K**, Antalikova J (2018) Detection of CD9 and CD81 tetraspanins in bovine and porcine oocytes and embryos. *Int J Biol Macromol.* Nov 16. pii: S0141-8130(18)35444-8. doi: 10.1016/j.ijbiomac.2018.11.161. (IF 3.909)

Frolikova M, Manaskova-Postlerova P, Cerny J, Jankovicova J, Simonik O, Pohlova A, Secova P, Antalikova J, **Dvorakova-Hortova K** (2018) CD9 and CD81 Interaction and their Structure Modelling in Sperm Prior to Fertilization. *Int J Mol Sci.* Apr 19;19(4). Pii: E1236. Doi: 10.3390/Ijms19041236. (IF 3.687)

Dostalova P, Zatecka E, **Dvorakova-Hortova K** (2017) Of Oestrogens and Sperm: A Review of the Roles of Oestrogens and Oestrogen Receptors in Male Reproduction. *Int J Mol Sci.*, 18(5), 904-927. doi: 10.3390/ijms18050904. (IF 3.226)

Dong LF, Kovarova J, Bajzikova M, Bezawork-Geleta A, Svec D, Endaya B, Schaphibulkij K, Coelho A, Sebkova N, Ruzickova A, Tan AS, Kluckova K, Judasova K, Zamecnikova K, Rychtarcikova Z, Gopalan V, Sobol M, Yan B, Pattnaik B, Bhatraju N, Truksa J, Stopka P, Lam A, Sedlacek R, Oliveira P, Kubista M, Agarwal A, **Dvorakova-Hortova K**, Rohlena J, Berridge MV, Neuzil J (2017) Horizontal transfer of whole mitochondria recovers tumorigenic potential in mtDNA-deficient cells. *eLife* 6, e22187. DOI: 10.7554/eLife.22187 (IF 7.616).

Frolikova M, Sebkova N, Ded L, **Dvorakova-Hortova K** (2016) Characterization of CD46 and beta 1 integrin dynamics during sperm acrosome reaction. *Sci Rep*, 6: 33714. doi: 10.1038/srep33714. (IF 5.228)

Jankovicova J, Frolikova M, Sebkova N, Simon M, Cupperova P, Lipcseyova D, Michalkova K, Horovska L, Sedlacek R, Stopka P, Antalikova J, **Dvorakova-Hortova K** (2016) Characterization of tetraspanin protein CD81 in mouse spermatozoa and bovine gametes. *Reproduction*, 152(6):785-793. doi: 10.1530/REP-16-0304 (IF 3.184)

Stopkova R, Vinkler D, Kuntova B, Sedo O, Albrecht T, Suchan J, **Dvorakova-Hortova K**, Zdráhal Z and Stopka P (2016) Mouse Lipocalins (MUP, OBP, LCN) Are Co-expressed in Tissues Involved in Chemical Communication. *Frontiers in Ecology and Evolution*, 4:47 doi: 10.3389/fevo.2016.00047 (IF 2.686)

Bosakova Z, Tockstein A, Adamusova H, Coufal P, Sebkova N, **Dvorakova-Hortova K** (2016) Kinetic analysis of decreased sperm fertilizing ability by fluorides and fluoroaluminates: a tool for analyzing the effect of environmental substances on biological events. *Eur Biophys J.*, 45(1):71-9. doi: 10.1007/s00249-015-1078-x. Epub 2015. (IF 2.219)

Vieweg M and **Dvorakova-Hortova K**, Dudkova B, Waliszewski P, Otte M, Oels B, Hajimohammad A, Turley H, Schorsch M, Schuppe HC, Weidner W, Steger K, Paradowska-Dogan A (2015) The methylation analysis of histone H4K12ac associated promoters in sperm of healthy donors and subfertile patients. *Clinical Epigenetics*, 7:31 DOI 10.1186/s13148-015-0058-4. (IF 4.327)

Dvorakova-Hortova K, Sidlova A, Ded L, Hladovcova D, Vieweg M, Weidner W, Steger K, Stopka P, Paradowska-Dogan A (2014) Toxoplasma gondii decreases the reproductive fitness in mice. *PLoS One*, 9 (6) Pages: e96770, DOI: 10.1371/journal.pone.0096770. (IF 3.534)

Klinovska K, Sebkova N, **Dvorakova-Hortova K** (2014) Sperm-egg fusion: a molecular enigma of mammalian reproduction. *Int J Mol Sci*, 15 (6): 10652-68 DOI: 10.3390/ijms150610652. (IF 2.339)

Sebkova N, Ded L, Vesela K and **Dvorakova-Hortova K** (2014) Progress of sperm IZUMO1 relocation during spontaneous acrosome reaction. *Reproduction*, 145 (3): 255-63 DOI: 10.1530/REP-12-0472. (IF 3.616)

Ded L Sebkova N, Cerna M, Elzeinova F, Dostalova P, Peknicova J, **Dvorakova-Hortova K** (2013) In vivo exposure to 17 β -estradiol triggers premature sperm capacitation in cauda epididymis. *Reproduction*, 145 (3): 255-63 DOI: 10.1530/REP-12-0472. (IF 3.616)

Paradowska A, Miller D, Spiess A, Vieweg M, Cerna M, **Dvorakova-Hortova K**, Bartkuhn M, Schuppe H, Weidner W, Steger K (2012) Genome wide identification of promoter binding sites for H4K12az in human sperm and its relevance for the early embryonic development. *Epigenetics*, 7(9): 1057-70. DOI: 10.4161/epi.21556 (IF 4.327)

Sebkova N, Cerna M, Ded L Peknicova J, **Dvorakova-Hortova K** (2012) The slower the better: how sperm capacitation and acrosome reaction is modified in the presence of estrogens. *Reproduction*, 143: 297-307. DOI: 10.1530/REP-11-0326. (IF 3.616)

Frolikova M, Stopkova R, Antalikova J, Johnson PM, Stopka P, **Dvorakova-Hortova K** (2012) Role of complement regulatory proteins CD46, CD55 and CD59 in reproduction. *Folia Zoologica*, 61 (1): 84-94. (IF 0.741)

Breed WG, Tan S, Leigh CM, Aplin KP, **Dvorakova-Hortova K**, Moore H (2011) The morphology of the squirrel spermatozoon: A highly complex male gamete with a massive acrosome. *J Morphol*, 272 (7): 883-889. DOI: 10.1002/jmor.10955. (IF 1.735)

Ded L, Dostalova P, Dorosh A, **Dvorakova-Hortova K** Peknicova J (2010) Effect of estrogens on boar sperm capacitation in vitro. *RBE*, 8: 87. DOI: 10.1186/1477-7827-8-87 (IF 2.41)

Clift LE, Andrlíkova P, Frolikova M, Stopka P, Bryja K, Flanagan BF, Johnson PM, **Dvorakova-Hortova K** (2009) Absence of spermatozoal CD46 protein expression and

associated rapid acrosome reaction rate in striped field mice (*Apodemus agrarius*). *RBE*, 7: 29 DOI:10.1186/1477-7827-7-29. (IF 2.41)

Clift LE, **Dvorakova-Hortova K**, Frolikova M, Andrlíkova P, Salman S, Stopka P, Flanagan BF, Johnson PM (2009) CD55 and CD59 protein expression by *Apodemus* (field mice) sperm in the absence of CD46. *JRI*, 81: 62–73. DOI: 10.1016/j.jri.2009.02.006 (IF 2.37)

Dvorakova-Hortova K, Sandera M, Jursova M, Vasinova J, Peknicova J (2008) The Influence of fluorides on mouse sperm capacitation. *ANIREP*, 108: 157-170. (IF 1.581)

Johnson PM, Clift LE, Andrlíkova P, Jursova M, Flanagan BF, Cummerston JA, Stopka P, **Dvorakova-Hortova K** (2007) Rapid sperm acrosome reaction in the absence of acrosomal CD46 expression in promiscuous field mice (*Apodemus*). *Reproduction*, 134: 739-747. DOI: 10.1530/REP-07-0363 (IF 3.616)

Dvorakova K, Moore H, Sebkova N, Palecek J (2005) Cytoskeleton localization in the sperm head prior to fertilization. *Reproduction*, 130: 61-69. DOI: 10.1530/rep.1.00549 (IF 3.616)

Moore H, **Dvorakova K**, Jenkins N, Breed W (2002) Exceptional sperm cooperation in the wood mouse. *Nature*, 418: 174 - 177. DOI: 10.1038/nature00832 (IF 42.351)

Dvorakova D, **Dvorakova K**, Blaha B, Marsalek L, Knotkova Z (2002) Effects of Cyanobacterial biomass and purified mikrocystins on malformations in *Xenopus laevis*: Teratogenesis assay (FETAX). *Environmental Toxicology Journal*, 17, (6): 547-555. (IF 3.197)

Dvorakova K, Palecek J, Peknicova J (2001) Changes in Immunocytochemical Localisation of Cytoskeletal Proteins in Boar Spermatozoa after the Acrosome Reaction Induced by Specific Cytoskeletal Inhibitors. *Folia Biologica (Praha)*, 47: 18-27. (IF 1.219)

Palecek J, **Dvorakova K**, Peknicova J (2001) Dynamic changes of cytoskeletal proteins during mammalian acrosome reaction. *Development Growth and Differentiation*, 43, Suppl. ISSN 0012-1592. (IF 2.178)

Dvorakova K, Habrova V, Takac M, Jonak J (2000) Depression in the level of cadherin and alpha-, beta-, gamma-catenins in transgenic *Xenopus laevis* highly expressing c-Src. *Folia Biologica*, 46 (1): 3-9. (IF 1.219)

2. recenzované články v národních časopisech (psané v češtině či slovenštině)
3. vědecké monografie
4. kapitoly v monografiích
5. práce v recenzovaných sbornících
6. učebnice a učební texty
7. zvané přednášky (rozlište přednášky typu „*invited speaker*“ na konferencích a zvané přednášky na různých institucích)

„Invited speaker“ konference

2020 Úvodní přednáška a zahajovací workshop 30. Symposium Asistované Reprodukce a 19. Konference reprodukční medicíny, Brno, ČR: „Inovativní diagnostika poškozených akrozómů s využitím pro selekci nepoškozených spermií“

- 2020** „4. Seminář reprodukční medicíny GENET, Praha, ČR: „Nové pohledy na problematiku reprodukce“
- 2018** Zvaná přednáška TMU-UoN Joint Symposium of Recent Advances in Women's health, College of Medical Science and Technology, Taipei Medical University, Taiwan: “Novel diagnostic markers for sperm selection to enhance human assisted reproduction success“
- 2017** Asociace reprodukční embryologie (ARE), ČR: „Inovativní nástroje pro diagnostiku a zlepšení fertilizační schopností spermií“
- 2016** Annual Meeting of the German Society of Andrology, Physiology of Reproduction Section, Saarbrücken, Německo: „Ready at the right time: Challenges and milestones of reproduction“

„Invited speaker“ instituce

- 2019** University of Padova, Italy: “The for of FcRL3 protein during sperm-egg membrane Interaction in human“
- 2018** Hudson Inst., Monash University and University of Queensland, Melbourne, Australia: „From protein domain dynamics to diagnostic markers for gamete selection that enhance human assisted reproduction success“
- 2018** Institute for Molecular Bioscience, The University of Queensland, Brisbane, Australia: „Novel diagnostic markers for gamete selection to enhance human assisted reproduction success“
- 2017** AV ČR, Dny vědy a techniky, Praha ČR: „Nové přístupy pro včasnou diagnostiku a zlepšení kvality spermií“
- 2016** Vystoupení v Událostech České televize a reportáž ČT: “Nová cesta k diagnostic neplodnosti”
- 2015** zahájení Life Sciences Film Festival Suchbát, Praha, ČR
- 2007** University of Giessen a Marburg, Německo: „Loss of CD46 expression benefits sperm competition“
- 2006** University of Liverpool, UK: “Role of CD46 protein on mammalian sperm”
- 2006** Víkend, TV NOVA: “Kompetice spermií myšic”
- 2004** University of Melbourne, Austrálie: “Any closer to understanding sperm?”

8. patenty národní a zahraniční

- 2020 EP20152484.0**
Method for separation of sperm with undamaged intact heads from sperm with damaged heads and somatic cells. European application; in process
- 2020 EP20152470.9**
Method for separation of sperm with undamaged intact heads from sperm with damaged heads and somatic cells. European application; in process

2020 PV 2020-223

Způsob separace spermií s neporušenou intaktní hlavičkou od spermií s poškozenou hlavičkou a somatických buněk. National application; in process

2020 PV 2020-224

Způsob separace spermií s neporušenou intaktní hlavičkou od spermií s poškozenou hlavičkou a somatických buněk. National application; in process

2021 PCT/CZ2021/050004

Method for separation of sperm with undamaged intact heads from sperm with damaged heads and somatic cells. International Application; in process

2021 PCT/CZ2021/050005

Method for separation of sperm with undamaged intact heads from sperm with damaged heads and somatic cells. International Application; in process

9. * jiné výsledky aplikovaného výzkumu (např. certifikovaná metodika, specializovaná mapa)

- v případě většího množství výsledků je uvádějte v členění podle klasifikace RVVI

10. kvalifikační práce (disertační, habilitační...; bakalářskou, magisterskou a případnou rigorózní práci neuvádějte)

2001 Disertační práce: Cytoskeletální proteiny savčích spermií.

11. řešení grantů (uvádějte název a číslo grantu, poskytovatele, roky realizace, roli – řešitel, spoluřešitel, garant)

- 2020-2023** Sledování parametrů plodnosti a stavu testikulární tkáně u pacientů s tumorem varlete v závislosti na jejich terapii. AZV (NU20-03-00309) - řešitelka
- 2020-2022** LINC komplex spermií: Spojník mezi integritou chromatinu, motilitou spermií a plodností mužů. GA ČR (GC20-20217J) - řešitelka
- 2019-2021** Inovativní nástroje pro diagnostiku a zlepšení fertilizační schopnosti spermií. TA ČR Zéta (TJ02000219) – garant
- 2018-2020** Monitorování dynamiky proteinových interakčních a strukturních sítí během interakce membrán spermie a vajíčka GA ČR (GA-18-11275S) – řešitelka
- 2018-2020** Genetická podstata vzniku druhů: Co nám mohou prozradit organismy s heterogametickými samicemi? GA ČR (GA-18-14325S) – spoluřešitelka
- 2014-2016** Molekulární mechanismy účastníci se kapacitace a akrozomální reakce savčích spermií, GA ČR (GA-14-05547S) - řešitelka
- 2006-2011** Centrum molekulárních metod monitorování difúzního znečištění životního prostředí, MŠMT (No. 1M06011) – spoluřešitelka
- 2004-2006** Vliv ekotoxikologických faktorů na uspořádání a funkci cytoskeletu spermie savců ve vztahu k problematice infertility, GA ČR (204/04/P008) – řešitelka
- 2002-2004** Proteiny spermií a ubiquitinace akrozómu u lidských spermií s normálním a patologickým spermiogramem, GA ČR (204/02/1373) – spoluřešitelka

12. * **jiné závažné práce** (např. kritické edice pramenů, komentované překlady, recenze v odborných časopisech, expertizy, encyklopedie, slovníková hesla, příručky, překlady, další tvůrčí činnost jako organizace výstav atd.)

2020-dosud **Organizace konference „Symposium Biologie a Imunologie Reprodukce“**
(hybridní či online forma)

13. * **ostatní publikace**

- 2020** Workshop pro vědeckou a lékařskou veřejnost: „Tisková zpráva k patentům“
2016 Článek na Portál Vědavyzkum.cz: „Nezávislé informace o vědě a výzkumu“
2016 Článek PŘF UK aktuality: „Nová cesta k diagnostice neplodnosti? Protein CD46“
2002 příloha časopisu Mladá Fronta Dnes „Altruistické chování spermií“

14. * **abstrakta z mezinárodních konferencí** (lokální konference neuvádějte)

- 2019** Dvorakova-Hortova K., Frolikova M., Valaskova E., Cerny J., Lumeau A., Sebkova N., Palenikova V., Ded L., Manaskova-Postlerova P.: From protein domain dynamics to new diagnostic markers for gamete selection that enhance human assisted reproduction success. *20th World congress on in vitro fertilization, Barcelona, Spain.*
- 2019** Dvorakova-Hortova K., Frolikova M., Valaskova E., Cerny J., Lumeau A., Sebkova N., Palenikova V., Sanches-Hernandez N., Pohlova A., Manaskova-Postlerova P.: Addressing the compartmentalization of specific integrin heterodimers in mouse sperm. *52nd Annual meeting of the Society for the Study of Reproduction, San Jose, USA.*
- 2018** Dvorakova-Hortova K., Kovarova J., Bajzikova M., Sebkova N., Rohlena J., Dong L., Berridge MV, Neuzil J.: Transgenic mouse models as indispensable tools to study inter-cellular transfer of mitochondria. *Society For Free Radical Research Conference 2018 (SFRR), Auckland, NZ.*
- 2017** Dvorakova-Hortova K., Ded L., Sebkova N., Froliková M.: Protein-protein interactions in sperm and egg under the spotlight of super-resolution microscopy. *4th World Congress of Reproductive Biology, Osaka, Japan*
- 2015** Dvorakova-Hortova K., Froliková M., Ded L., Sebkova N.: Ready at the Right time. *13th Biology of Spermatozoa biannual Meeting, Hasop Hall, England.*
- 2015** Dvorakova-Hortova K., Vieweg M., Dudkova B., Waliszewski P., Otte M., Oels B., Hajimohammad A., Turley H., Schorsch M., Schuppe HC., Weidner W., Steger K., Paradowska-Dogan A.: Histone H4K12ac in sperm chromatin represents a potential factor for epigenetic mediated subfertility. *48th Annual meeting of the Society for the Study of Reproduction, Puerto Rico, USA.*

- 2012** Dvorakova-Hortova K., Vesela K., Sebková N.: Relocalization of Izumo and beta1-integrin during spontaneous acrosome reaction. *International Congress of the American Society for Reproductive Immunology (ASRI) and the European Society for Reproductive Immunology (ESRI) Hamburg, Germany.*
- 2011** Dvorakova-Hortova K., Sebkova N., Cerna M., Ded L., Peknicova J.: Estrogens decrease fertilizing fitness of mouse capacitating spermatozoa. *11th Biology of Spermatozoa biannual Meeting, Hasop Hall, England.*
- 2010** Dvorakova-Hortova K., Clift L.E., Frolikova M., Andrlíkova P., Flanagan B.F., Cummmerson J.A., Stopka P., Johnson P.M.: Complement regulatory proteins are involved in sperm competition in field mice (*Apodemus*). *Annual meeting of the Australian Society for the Study of Reproduction, Perth, Australia*
- 2010** Dvorakova-Hortova K., Tejnická M., Sebkova N., Ded L., Peknicova J.: The effect of estrogens on tyrosine phosphorylation in mouse sperm capacitation in vitro. *European Testis Workshop, ETW, Elba, Italy*
- 2009** Dvorakova-Hortova K., Vasinova J., Sandera M., Jursova M., Peknicova J.: The influence of fluoride on mouse sperm capacitation in vitro. *9th Congress of Andrology, Barcelona, Spain.*
- 2009** Dvorakova-Hortova K., Clift L.E., Andrlíkova P., Frolikova M., Flanagan B.F., Cummmerson J.A., Stopka P., Johnson P.M.: Any closer to understanding sperm? Loss of CD46 expression benefits sperm competition. *10th Biology of spermatozoa biannual meeting, Castleton, England.*
- 2006** Dvorakova K., Andrlíkova P., Clift L.E., Jursova M., Flanagan B., Stopka P., Johnson P.M.: The roles of CD46 on mammalian sperm. *10th International Symposium on Spermatology, Madrid Spain.*
- 2006** Johnson P.M., Clift L.E., Flanagan B., Stopka P., Dvorakova K.: The roles of CD46 on mammalian sperm. *AJRI Vol. 56, (2006) 7-33.*
- 2006** Clift L.E., Dvorakova K., Flanagan B.F., Andrlíkova P., Stopka P., Johnson P.M.: Characterization and role of spermatozoal CD46 in outbred rodents. *J Reprod Immunol. Vol. 71 (2006) 135-176.*
- 2005** Dvorakova K., Francova D.: The influence of eco-toxicological factors on mammalian sperm in vitro. *3rd European congress of Reproductive Immunology. AJRI Vol. 54, 2005.*
- 2005** Johnson P.M., Cummmerson J.A., Flanagan B.F., Clift L.E., Dvorakova K.: The Multi-tasking of Complement Regulatory Protein [CRPs] on Sperm? *25th Annual Meeting of American Society of Reproductive Immunology: AJRI Vol. 53.*
- 2004** Dvorakova K., Stopka P.: Sperm trains and mating behaviour in wood mice of the genus *apodemus*. *35th Annual conference of Society for reproductive Biology: Reproduction, Fertility and Development, Vol. 16.*
- 2004** Dvorakova K., Moore H.D., Peknicova J.: Cytoskeleton as a dynamic structure in the sperm head. A comparison with spermatozoa of different morphological types in vitro. *European Congress of Reproductive Immunology, AJRI Vol. 51.*

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