CURRICULUM VITAE

NAME: Volodymyr DVORNYK

SCIENTIFIC INTERESTS

Comparative genomics, bioinformatics, microbiology, molecular evolution, molecular population genetics, epidemiology, medical genetics.

ACADEMIC RECORD AND DEGREES

1992	Ph.D. (Biology), Moscow Pedagogical State University, Moscow, Russia.
1979-84	M.Phil. (Zoology and Botany), V. Stus Donetsk State University, Donetsk, Ukraine. *Graduated **Cum Laude.***

ACADEMIC DISTINCTIONS, SCHOLARSHIPS, FELLOWSHIPS, PRISES & HONOURS

2000	Visiting Scholar at the Department of Biochemistry and Molecular Biology, University of New Hampshire, USA.

POSITIONS HELD

2022-present	*PROFESSOR OF GENETICS*, Department of Life Sciences, College of Science and General Studies, Alfaisal University, Riyadh, Saudi Arabia
2015-2022	*ASSOCIATE PROFESSOR OF GENETICS*, Department of Life Sciences, College of Science and General Studies, Alfaisal University, Riyadh, Saudi Arabia
2015-2018	*HONORARY ASSOCIATE PROFESSOR*, School of Biological Sciences, University of Hong Kong, Hong Kong SAR, PR China
2008-2015	*ASSOCIATE PROFESSOR*, School of Biological Sciences, University of Hong Kong, Hong Kong SAR, PR China
2005-08	*ASSISTANT PROFESSOR*, Department of Biological Sciences, Kent State University, Kent, OH, USA.
2000-05	*POSTDOCTORAL RESEARCH ASSOCIATE*, Osteoporosis Research Center, Creighton University, Omaha, NE, USA.
1998-2000	*POSTDOCTORAL RESEARCHER*, Plant Genetics Group, Department of Biology, University of Oulu, Oulu, Finland.
1994-98	*HEAD*, Ecological Consulting Division, Khvylia Co., Ukraine
1993-94	*RESEARCH SCIENTIST*, Department of Plant Tolerance Physiology, Donetsk Botanical Gardens, National Academy of Sciences of Ukraine.
1992-93	*JUNIOR RESEARCH SCIENTIST*, Department of Plant Tolerance Physiology, Donetsk Botanical Gardens, Ukraine

TEACHING EXPERIENCE

1. **Current teaching**:

Level	*Course name*	*Credit hours*
Undergraduate	Biotechnology	3
	Human Anatomy and Physiology	3
	General Biology I and II	6
	Introductory Biology (for non-biology major)	3
	Microbiology	4
	Human Genetics	3
	Bioinformatics and Computational Genomics	3
	Conservation Biology	3

Past teaching:

Level	*Course name*	*Credit hours*
Undergraduate	Organic Evolution	3
	Medical Microbiology (with a lab component)	3
	Ecology, Evolution, and Society	3
	Biological Foundations	4
	Microbial Biotechnology (with a lab component)	3
	Biotechnology Industry	3
	Molecular Phylogenetics and Evolution (with a computer lab component)	6
	Genetics (with a lab component)	3
Graduate	Organic Evolution	3
	Writing in Biological Sciences	1

CURRICULUM DEVELOPMENT (courses I have designed or significantly modified to meet curriculum requirements)

- Virology (new course).
- Conservation Biology (new course)
- Bioinformatics and Computational Genomics (new course).
- Human Genetics (new course).
- Biotechnology (new course).
- Molecular Phylogenetics and Evolution (new course).
- Basic Microbiology (with emphasis on medical and environmental microbiology).
- Case Studies in Biotechnology (problem-based learning course).

- Ecology, Evolution, and Society.
- Fall 2007 First Year Colloquium.
- Biological Foundations (with emphasis on human anatomy, physiology, and genetics).
- Organic Evolution.

UNIVERSITY SERVICE

- Research and Development Committee, College of Science and General Studies, Alfaisal University
- Grievance Committee, College of Science and General Studies, Alfaisal University
- *Ad hoc* member, Faculty Search Committee for Microbiologist, Alfaisal University, Spring 2015.
- Editorial Board, Faculty of Science Newsletter, University of Hong Kong, 08/2012-07/2015.
- Sub-group of Curriculum Review and Timetable Committee, University of Hong Kong, 03/2012-02/2013
- Faculty Human Resource Committee, Faculty of Science, University of Hong Kong, 11/2008-11/2010 term.
- Faculty Senate Member, Faculty of Science, University of Hong Kong, 2008-present.
- Member of the Editorial Board, Kent State University Press, 2007-2008.
- *Ad hoc* member, Faculty Search Committee for Environmental Microbiologist, Kent State University, Fall 2005.

PROFESSIONAL APPOINTMENTS, COMMITTEES AND BOARDS

Editorial Board:

- *International Journal of Pharmacy and Pharmacology – since 2014*
- *Open Journal of Epidemiology – since 2012*
- *International Journal on Algae – 2009-2019*
- *The Scientific World Journal – 2011-2014*
- *Advances in Biology – 2013-2017*
- *World Journal of Experimental Medicine – 2011-2019*
- *World Journal of Medical Genetics –2011-2018*

Reviewer for the journals:

- *Nature Reviews Microbiology*
- *International Journal of Systematic and Evolutionary Microbiology*
- *Journal of Biogeography*
- *Age*

- *Brain Research*
- *Breast Cancer Research and Treatment*
- *Gene*
- *Genes*
- *International Journal of Molecular Sciences*
- *Journal of Molecular Endocrinology*
- *Journal of Clinical Endocrinology and Metabolism*
- *Molecular Human Reproduction*
- *BMC Medical Genetics*
- *Saudi Medical Journal*
- *Ethnicity & Disease*
- *Medical Science Monitor*
- *Central European Journal of Biology*
- *International Journal on Algae*
- *ScienceAsia – Journal of the Science Society of Thailand*
- *Ukrainian Botanical Journal*
- *Ecology and Noospherology*

Reviewer of grant proposals for the NSF (USA), Deutsch-Israelische Projektkooperation.

LANGUAGE PROFICIENCY

Ukrainian and Russian – native, English – fluent, some other Slavic languages (Polish, Czech, Bulgarian) – read and understood.

PUBLICATION NAMES

V. Dvornik, V. Dvornyk.

PEER-REVIEWED ARTICLES (SELECTED)

Epidemiology, Human Genetics and Genomics

1. MINYAYLO O, PONOMARENKO I, RESHETNIKOV E, **DVORNYK V**, CHURNOSOV M. 2022. Polymorphisms of the matrix metalloproteinase 9 gene are associated with duodenal ulcer in a Caucasian population of Central Russia. *J King Saud University – Science*, **34**: 102142.
2. CHURNOSOV M, BELYAEVA T, RESHETNIKOV E, **DVORNYK V**, PONOMARENKO I. 2022. Polymorphisms of the filaggrin gene are associated with atopic dermatitis in the Caucasian population of Central Russia. *Gene*, **818**: 146219.
3. **DVORNYK V**, PONOMARENKO I, BELYAEVA T, RESHETNIKOV E, CHURNOSOV M. 2021. *Filaggrin* gene polymorphisms are associated with atopic dermatitis in women but not in men in the Caucasian population of Central Russia. *PLoS ONE*, **16**(12): e0261026.
4. **DVORNYK V**, CHURNOSOV M, DENG HW. 2021. Polymorphisms of the *TNF*, *LTA*, and *TNFRSF1B* genes are associated with onsets of menarche and menopause in US women of European ancestry. *Ann. Hum. Biol.*, **48**(5): 400-405. doi: 10.1080/03014460.2021.1987519.
5. **DVORNYK V**. 2021. Significant interpopulation differentiation at candidate loci may underlie ethnic disparities in the prevalence of uterine fibroids. *J. Genet*., **100**, 90. doi: 10.1007/s12041-021-01342-x.
6. **DVORNYK V,** PONOMARENKO I, MINYAYLO O, RESHETNIKOV E, CHURNOSOV M. 2021. Association of the functionally significant polymorphisms of the *MMP-9* gene with *H. pylori*-positive gastric ulcer in the Caucasian population of Central Russia. *PLoS ONE*, **16**(9): e0257060.
7. ELISEEVA N, PONOMARENKO I, RESHETNIKOV E, **DVORNYK V**, CHURNOSOV M. 2021. The haplotype of the *CDKN2B-AS1* gene is associated with primary open-angle glaucoma and pseudoexfoliation glaucoma in the Caucasian population of Central Russia. *Ophthalmic Genet*., **42**(6), 698-705. doi: 10.1080/13816810.2021.1955275.
8. MINYAYLO O, PONOMARENKO I, RESHETNIKOV E, **DVORNYK V**, CHURNOSOV M. 2021. Functionally significant polymorphisms of the *MMP-9* gene are associated with peptic ulcer disease in the Caucasian population of Central Russia. *Sci. Rep*., **11**: 13515. doi: 10.1038/s41598-021-92527-y.
9. ELISEEVA N, PONOMARENKO I, RESHETNIKOV E, **DVORNYK V**, CHURNOSOV M. 2021. The *LOXL1* gene candidates for exfoliation glaucoma are also associated with a risk for primary open-angle glaucoma in a Caucasian population from Central Russia. *Mol. Vis*., **27**: 262-269.
10. MOSKALENKO M, PONOMARENKO I, RESHETNIKOV E, **DVORNYK V**, CHURNOSOV M. 2021. Polymorphisms of the matrix metalloproteinase genes are associated with essential hypertension in a Caucasian population of Central Russia. *Sci. Rep*., **11**: 5224. doi: 10.1038/s41598-021-84645-4.
11. RESHETNIKOV E, PONOMARENKO I, POLONIKOV A, VERZILINA I, SOROKINA I, YERMACHENKO A, **DVORNYK V**, CHURNOSOV M. 2021. Candidate genes for age at menarche are associated with uterine leiomyoma. *Front. Genet.*, **11**: 512940. doi: 10.3389/fgene.2020.512940.
12. STARIKOVA D, PONOMARENKO I, RESHETNIKOV E, **DVORNYK V**, CHURNOSOV M. 2021. Novel data about association of the functionally significant polymorphisms of the *MMP-9* gene with exfoliation glaucoma in the Caucasian population of Central Russia. *Ophthalmic Res*., **64** (3): 458-464. doi: 10.1159/000512507.
13. PONOMARENKO I, RESHETNIKOV E, POLONIKOV A, VERZILINA I, SOROKINA I, ELGAEVA E, TSEPILO

YA, YERMACHENKO A, **DVORNYK V**, CHURNOSOV M. 2020. Candidate genes for age at menarche are associated with endometriosis. *Reprod. Biomed. Online*, **41**(5): 943-956. doi.org/10.1016/j.rbmo.2020.04.016.

14. GOLOVCHENKO O, ABRAMOVA M, PONOMARENKO I, RESHETNIKOV E, ARISTOVA I, POLONIKOV A, **DVORNYK V**, CHURNOSOV M. 2020. Functionally significant polymorphisms of *ESR1* and *PGR* and risk of intrauterine growth restriction in population of Central Russia. *Eur. J. Obstet. Gynecol. Reprod. Biol*., **253**: 52-57. doi.org/10.1016/j.ejogrb.2020.07.045.
15. PONOMARENKO I, RESHETNIKOV E, POLONIKOV A, SOROKINA I, YERMACHENKO A, **DVORNYK V**, CHURNOSOV M. 2020. Candidate genes for age at menarche are associated with endometrial hyperplasia. *Gene*, **757**: 144933. doi.org/10.1016/j.gene.2020.144933.
16. PONOMARENKO I, RESHETNIKOV E, ALTUCHOVA O, POLONIKOV A, SOROKINA I, YERMACHENKO A, **DVORNYK V**, GOLOVCHENKO O, CHURNOSOV M. 2019. Association of genetic polymorphisms with age at menarche in Russian women. *Gene*, **686**:228-236.
17. RESHETNIKOV E, ZARUDSKAYA O, POLONIKOV A, BUSHUEVA O, ORLOVA V, KRIKUN E, **DVORNYK V**, CHURNOSOV M. 2017. Genetic markers for inherited thrombophilia are associated with fetal growth retardation in the population of Central Russia. *J. Obstet. Gynaecol. Res.*, **43**(7): 1139-1144.
18. YERMACHENKO A, MOGILEVKINA I, GURIANOV VG, GETSKO O, **DVORNYK V**. 2017. Non-genetic risk factors for early and late menarche in Eastern Ukrainian females. *Anthropol. Anz.*, **74**(1): 45-56.
19. YERMACHENKO A, **DVORNYK V**. 2016. *UGT2B4* previously implicated in the risk of breast cancer is associated with menarche timing in Ukrainian females. *Gene*, **590**(1): 85-89.
20. YERMACHENKO A, **DVORNYK V**. 2015. A meta-analysis provides evidence that prenatal smoking exposure decreases age at menarche. *Reprod. Toxicol.*, **58**: 222-228.
21. RESHETNIKOV EA, AKULOVA LYU, DOBRODOMOVA IS, **DVORNYK V**, POLONIKOV AV, CHURNOSOV MI. 2015. The insertion-deletion polymorphism of the *ACE* gene is associated with increased blood pressure in women at the end of pregnancy. *J. Renin Angiotensin Aldosterone Syst*., **16**(3): 623-632.
22. YERMACHENKO A, **DVORNYK V**. 2014. Nongenetic determinants of age at menarche: a systematic review. *BioMed Res Int* vol. 2014, Article ID 371583, 14 pp., doi:10.1155/2014/371583.
23. LITOVKINA O, NEKIPELOVA E, **DVORNYK V**, POLONIKOV A, EFREMOVA O, ZHERNAKOVA N, RESHETNIKOV E, CHURNOSOV M. 2014. Genes involved in the regulation of vascular homeostasis determine renal survival rate in patients with chronic glomerulonephritis. *Gene*, **546**(1): 112-116.
24. **DVORNYK V**, UL-HAQ W. 2012. Genetics of age at menarche: a systematic review. *Hum. Reprod. Update*, **18**(2): 198-210.
25. SUN L, TAN L, YANG F, LUO Y, LI X, DENG HW, **DVORNYK V**. 2012. Meta-analysis suggests that smoking is associated with earlier age at natural menopause. *Menopause*, **19**(2): 126-132.

    Cited more than 3,000 times in mass media.
26. PAN R, LIU YZ, DENG HW, **DVORNYK V**. 2012. Association analyses suggest the effects of *RANK* and *RANKL* on age at menarche in Chinese women. *Climacteric*, **15**(1): 75-81.
27. LU Y, LIU YZ, LIU PY, **DVORNYK V**, DENG HW. 2011. A bootstrap-based regression method for comprehensive discovery of differential gene expressions: the application to osteoporosis studies. *Eur. J. Med. Genet*., **54**(6): e560-e564.

28. LU Y, LIU P, RECKER RR, DENG HW, **DVORNYK V**. 2010. *TNFRSF11A* and *TNFSF11* are associated with age at menarche and natural menopause in white women. *Menopause,* **17**(5): 1048-1054.
29. LIU P, LU Y, RECKER RR, DENG HW, **DVORNYK V**. 2010. Association analyses suggest multiple interaction effects of the methylenetetrahydrofolate reductase polymorphisms on timing of menarche and natural menopause in whites. *Menopause*, **17**(1): 185-190.
30. LIU P, LU Y, RECKER RR, DENG HW, **DVORNYK V**. 2010. *ALOX12* gene is associated with the onset of natural menopause in white women. *Menopause*, **17**(1): 152-156.
31. HE L, RECKER RR, DENG HW, **DVORNYK V.** 2009. A polymorphism of the *APOE* gene is associated with age at natural menopause in Caucasian females. *Maturitas,* **62**(1): 37-41.
32. **DVORNYK V**, LIU YZ, LU Y, SHEN H, LAPPE J, LEI SF, RECKER RR, DENG HW. 2007. Effect of menopause on gene expression profiles of circulating monocytes: a pilot *in vivo* microarray study. *J. Genet. Genomics*, **34**(11): 974-983.
33. **DVORNYK V**, LONG JR, LIU PY, SHEN H, RECKER RR, DENG HW. 2006. Polymorphisms of the vitamin D receptor gene predict the onset of surgical menopause in Caucasian females. *Gynecol. Endocrinol.*, **22**(10): 552-556.
34. LIU YZ, GUO YF, XIAO P, XIONG DH, ZHAO LJ, SHEN H, LIU YJ, **DVORNYK V**, LONG JR, DENG HY, LI JL, DENG HW. 2006. Epistasis between loci on chromosomes 2 and 6 influences human height. *J. Clin. Endocrinol. Metab.*, **91**(10): 3821-3825.
35. **DVORNYK V**, LONG JR, ZHAO LJ, SHEN H, RECKER RR, DENG HW. 2006. Predictive factors for age at menopause in Caucasian females. *Maturitas,* **54**(1): 19-26.
36. LIU YZ, XIAO P, GUO YF, XIONG DH, ZHAO LJ, SHEN H, LIU YJ, **DVORNYK V**, LONG JR, DENG HY, LI JL, RECKER RR, DENG HW. 2006. Genetic linkage of human height is confirmed to 9q22 and Xq24. *Hum. Genet.*, **119**(3): 295-304.
37. DENG FY, LEI SF, LI MX, JIANG C, **DVORNYK V**, DENG HW. 2006. Genetic determination and correlation of body mass index and bone mineral density at the spine and hip in Chinese Han ethnicity. *Osteoporos. Int.,* **17**(1): 119-124.
38. LEI SF, WU S, **DVORNYK V**, DENG HW. 2005. Two strategies to identify genes underlying complex diseases. *Curr. Genomics*, **6**(7): 551-561.
39. SHEN H, LONG JR, XIONG DH, LIU YJ, LIU YZ, XIAO P, ZHAO LJ, **DVORNYK V**, ZHANG YY, ROCHA-SANCHEZ S, LIU PY, LI JL, DENG HW. 2005. Mapping quantitative trait loci for cross-sectional geometry at femoral neck. *J. Bone Miner. Res.*, **20**(11): 1973-1982.
40. LONG JR, XU H, ZHAO LJ, LIU PY, SHEN H, LIU YJ, XIONG DH, XIAO P, LIU YZ, **DVORNYK V**, LI JL, RECKER RR, DENG HW. 2005. The estrogen receptor α gene is linked and/or associated with age of menarche in different ethnic groups. *J. Med. Genet.*, **42**(10): 796-800.
41. YANG YJ, **DVORNYK V**, JIAN WX, XIAO SM, DENG HW. 2005. Genetic and environmental correlations between bone phenotypes and anthropometric indices in Chinese. *Osteoporos. Int.*, **16**(9): 1134-1140.
42. LIU[*] YZ, **DVORNYK[*] V**, LU Y, SHEN H, LAPPE J, RECKER RR, DENG HW. 2005. A novel pathophysiological mechanism for osteoporosis suggested by an *in vivo* gene expression study of circulating monocytes. *J. Biol. Chem.*, **280**(32): 29011-29016 ([*]contributed equally).
43. **DVORNYK V**, LIU PY, LONG JR, ZHANG YY, LEI SF, RECKER RR, DENG HW. 2005. Contribution of genotype and ethnicity to bone mineral density variation in Caucasians and Chinese: a test for

five candidate genes for bone mass. *Chin. Med. J.* (Engl.), **118**(15): 1235-1244.

44. LEI SF, DENG FY, **DVORNYK V**, LIU MY, XIAO SM, JIANG DK, DENG HW. 2005. The $(GT)_n$ polymorphism and haplotype in the *COL1A2* gene, but not the $(AAAG)_n$ polymorphism in the *PTHR1* gene, are associated with bone mineral density in Chinese. *Hum. Genet.*, **116**(3): 200-207.
45. LONG JR, LIU PY, LU Y, XIONG DH, ZHANG YY, **DVORNYK V**, ELZE L, RECKER RR, DENG HW. 2005. Tests of linkage and/or association of *TGF-β1* and *COL1A1* genes with bone mass. *Osteoporos. Int.*, **16**(1): 86-92.
46. LIU YZ, XU FH, SHEN H, LIU YJ, ZHAO LJ, LONG JR, ZHANG YY, XIAO P, XIONG DH, **DVORNYK V**, LI JL, CONWAY T, DAVIES KM, RECKER RR, DENG HW. 2004. Genetic dissection of human stature in a large sample of multiplex pedigrees. *Ann. Hum. Genet.*, **68**(5): 472-488.
47. HUANG QY, XU FH, SHEN H, ZHAO LJ, DENG HY, LIU YJ, **DVORNYK V**, CONWAY T, DAVIES KM, LI JL, LIU YZ, RECKER RR, DENG HW. 2004. A second stage genome scan for QTLs influencing BMD variation. *Calcif. Tissue Int.*, **75**(2): 138-143.
48. SHEN H, ZHANG YY, LONG JR, XU FH, LIU YZ, XIAO P, ZHAO LJ, XIONG DH, LIU YJ, **DVORNYK V**, ROCHA-SANCHEZ S, LIU PY, LI JL, CONWAY T, DAVIES KM, RECKER RR, DENG HW. 2004. A genomewide linkage scan for bone mineral density in an extended sample: evidence for linkage on 11q23 and Xq27. *J. Med. Genet.*, **41**(10): 743-751.
49. XU FH, LIU YJ, DENG HY, HUANG QY, ZHAO LJ, SHEN H, LIU YZ, **DVORNYK V**, CONWAY T, LI JL, DAVIES KM, RECKER RR, DENG HW. 2004. A follow-up linkage study for bone size variation in an extended sample. *Bone*, **35**(3): 777-784.
50. LONG JR, ZHAO LJ, LIU PY, LU Y, **DVORNYK V**, SHEN H, LIU YJ, ZHANG YY, XIONG DH, XIAO P, DENG HW. 2004. Patterns of linkage disequilibrium and haplotype distribution in disease candidate genes. *BMC Genet.*, **5**:11.
51. **DVORNYK V**, XIAO P, LIU YJ, SHEN H, DENG HW. 2004. Systemic approach to the study of complex bone disorders at the whole-genome level. *Curr. Genomics*, **5**(2): 93-108 (invited review).
52. LONG JR, ZHANG YY, LIU PY, LIU YJ, SHEN H, **DVORNYK V**, ZHAO LJ, DENG HW. 2004. Association of estrogen receptor α and vitamin D receptor gene polymorphisms with bone mineral density in Chinese males. *Calcif. Tissue Int.*, **74**(3): 270-276.
53. **DVORNYK V**, LONG JR, XIONG DH, LIU PY, SHEN H, ZHANG YY, LIU YJ, ZHAO LJ, ROCHA-SANCHEZ SMS, XIAO P, RECKER RR, DENG HW. 2004. Current limitations of SNP data from the public domain for studies of complex disorders: a test for ten candidate genes for obesity and osteoporosis. *BMC Genet.*, **5**:4.
54. LIU YJ, XU FH, SHEN H, LIU YZ**,** DENG HY, ZHAO LJ, HUANG QY, **DVORNYK V**, CONWAY T, DAVIES KM, LI JL, RECKER RR, DENG HW. 2004. A follow-up linkage study for quantitative trait loci contributing to obesity-related phenotypes. *J. Clin. Endocrinol. Metab.*, **89**(2): 875-882.
55. LIU YZ, XU FH, SHEN H, DENG HY, LIU YJ, ZHAO LJ, **DVORNYK V**, CONWAY T, LI JL, HUANG QY, DAVIES KM, RECKER RR, DENG HW. 2003. Confirmation linkage study in support of the X chromosome harboring a QTL underlying human height variation. *J. Med. Genet.*, **40**(11): 825-831.
56. LONG JR, LIU PY, ZHANG YY, SHEN H, LIU YJ, **DVORNYK V**, DENG HW. 2003. Interaction effects between the estrogen receptor α gene, the vitamin D receptor gene, age and sex on bone mineral density in Chinese. *J. Hum. Genet.*, **48**(10): 514-519.
57. **DVORNYK V**, LIU XH, SHEN H, LEI SF, ZHAO L, HUANG QR, QIN Y, JIANG DK, LONG J, ZHANG

Y, GONG G, RECKER RR, DENG HW. 2003. Differentiation of Caucasians and Asians at bone mass candidate genes: implication for ethnic difference of bone mass. *Ann. Hum. Genet.*, **67**(3): 216-227.

58. **DVORNYK V**, RECKER R, DENG HW. 2003. Gene expression studies of osteoporosis: implications for microarray research. *Osteoporos. Int.*, **14**(6): 451-461.
59. LEI SF, DENG FY, LIU XH, HUANG QR, QIN Y, ZHOU Q, JIANG DK, LI YM, MO XY, LIU MY, CHEN XD, WU XS, SHEN H, **DVORNYK V**, ZHAO L, RECKER RR, DENG HW. 2003. Polymorphisms of four bone mineral density candidate genes in Chinese populations and the comparison with other populations of different ethnicity. *J. Bone Miner. Metab*., **21**(1): 34-42.

BOOKS AND BOOK CHAPTERS

60. **DVORNYK V.** (Editor). 2013. *Current Topics in Menopause*. Bentham Science Publishers, Sharja, UAE.
61. **DVORNYK V.** 2013. Genetics of menopause and menopausal age. In: *Current Topics in Menopause*, Dvornyk V (Ed.), Bentham Science Publishers, Sharja, UAE, pp. 20-53.
62. **DVORNYK V**, LIU YZ, SHEN H, LIU YJ, DENG HW. 2005. Genetics of osteoporosis. In: *Current Topics in Osteoporosis*, Deng HW, Liu YZ (Eds.), World Scientific Publishing Company, Singapore, pp. 415-444.
63. **DVORNYK V**, XIAO P, LIU YJ, SHEN H, DENG HW. 2005. Studying osteoporosis at the whole-genome level: problems and prospects. In: *Current Topics in Osteoporosis*, Deng HW, Liu YZ (Eds.), World Scientific Publishing Company, Singapore, pp. 464-498.

Molecular Genetics and Evolution

64. ZHANG X, LIU K, LI P, JIAO J, **DVORNYK V**, GU JD. 2019. Molecular eistence and diversity of nitrite-dependent anaerobic methane-oxidizing (n-damo) bacteria in the lakes of Badain of the Gobi Desert. *Geomicrobiology J*., **36**(6): 522-532.
65. ZHOU Z, CHEN J, MENG H, **DVORNYK V**, GU JD. 2017. New PCR primers targeting hydrazine synthase and cytochrome c biogenesis proteins in anammox bacteria. *App. Microbiol. Biotechnol.*, **101**(3): 1267-1287.
66. **DVORNYK V**. 2016. Evolution of the circadian clock system in cyanobacteria: a genomic perspective. *Int. J. Algae*, **18**(1): 5-20.
67. MEI Q, **DVORNYK V**. 2015. Evolutionary history of the photolyase/cryptochrome superfamily in eukaryotes. *PLoS ONE* 10(9):e0135940. doi: 10.1371/journal.pone.0135940.
68. MEI Q, SADOVY Y, **DVORNYK V**. 2015. Molecular evolution of cryptochromes in fishes. *Gene* **574**(1): 112-120.
69. MEI Q, **DVORNYK V**. 2014. Evolution of PAS domains and PAS-containing genes in eukaryotes. *Chromosoma*, **123**(4): 385-405
70. NG KW, POINTING SB, **DVORNYK V**. 2013. Patterns of nucleotide diversity of the *ldpA* circadian gene in closely related species of cyanobacteria from extreme cold deserts. *App. Environ. Microbiol.*, **79**(5):1516-1522.
71. **DVORNYK V**, JAHAN AS. 2012. Extreme conservation and non-neutral evolution of the *cpmA* circadian locus in a globally distributed *Chroococcidiopsis* sp. from naturally stressful habitats. *Mol. Biol. Evol*., **29**(12): 3899-3907.
72. BACA I, SPROCKETT D, **DVORNYK V**. 2010. Circadian input kinases and their homologs in

cyanobacteria: Evolutionary constraints versus architectural diversification. *J. Mol. Evol*., **70**(5): 453-465.

73. **DVORNYK V.** 2006. Evolution of the circadian clock mechanism in prokaryotes. *Isr. J. Ecol. Evol.*, **52**(3-4): 343-357.
74. **DVORNYK V.** 2006. Subfamilies of *cpmA*, a gene involved in circadian output, have different evolutionary histories in cyanobacteria. *Microbiology*, **152**(1): 75-84.
75. **DVORNYK V**, KNUDSEN B. 2005. Functional divergence of circadian clock proteins in prokaryotes. *Genetica*, **124**(4): 247-254.
76. **DVORNYK V.** 2005. Molecular evolution of *ldpA*, a gene mediating circadian input signal in cyanobacteria. *J. Mol. Evol.*, **60**(1): 105-112.
77. **DVORNYK V**, SIRVIÖ A, MIKKONEN M, SAVOLAINEN O. 2002. Low nucleotide diversity at the *Pal1* locus in the widely distributed *Pinus sylvestris*. *Mol. Biol. Evol*., **19**(2): 179-188.
    - *Faculty of 1000* Choice: Feb. 6, 2002.
78. **DVORNYK V.** 2001. Genetic variability and differentiation of geographically marginal Scots pine populations from Ukraine. *Silvae Genet*., **50**(2): 64-69.

BOOK CHAPTERS

79. **DVORNYK V.** 2009. The circadian clock gear in cyanobacteria: Assembled by evolution. In: *Bacterial Circadian Programs*, Ditty JL, Mackey S, Johnson CH (Eds.), Springer-Verlag, Berlin-Heidelberg, pp. 241-258.

CONFERENCES (SELECTED)

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