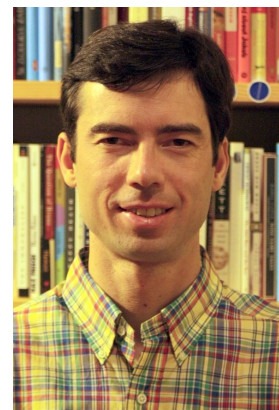


Curriculum Vitae

Matjaz Barboric, born October 17, 1975, Republic of Slovenia
Principal Investigator/Academy of Finland Research Fellow



Current employment/affiliations

Research Programs Unit, Molecular Medicine, Faculty of Medicine
Haartman Institute, University of Helsinki

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A. Education

- Ph.D.: 11.01.2005. Thesis awarded by University of Ljubljana, School of Medicine, Slovenia. Work performed at University of California, San Francisco, Department of Medicine, San Francisco, California, USA. Program in Biomedicine. *The function and regulation of P-TEFb in transcriptional elongation of eukaryotic and viral genes*
- B.Sc.: 16.09.1998. University of Ljubljana, Biotechnical Faculty, Slovenia. Interdepartmental Program in Microbiology. *P450-mediated biotransformations of steroid hormones in filamentous fungus Cochliobolus lunatus.*

B. Positions and Honors

Positions and Employment

- 1999-2003 Research and Teaching Assistant. Institute of Biochemistry, School of Medicine, University of Ljubljana, Republic of Slovenia
- 1999-2003 Graduate Student. University of Ljubljana, School of Medicine, Republic of Slovenia.
- 1999-2003 Postgraduate Researcher. Department of Medicine, University of California, San Francisco, California, USA
- 2004-2008 Postdoctoral Fellow. Department of Medicine, University of California, San Francisco, California, USA
- 2009-2010 Postdoctoral Fellow. Department of Virology, University of Helsinki, Helsinki, Finland
- 2010-2015 Academy of Finland Research Fellow, University of Helsinki, Helsinki, Finland
- 2010- Group Leader, Research Programs Unit, Molecular Medicine, Faculty of Medicine, University of Helsinki, Helsinki, Finland
- 2011- Principal Investigator, Faculty of Medicine, University of Helsinki, Helsinki, Finland

Honors

- 1994-1998 Zois Scholarship for Exceptionally Gifted Students, Ministry of Higher Education, Science and Technology, Government of the Republic of Slovenia
- 1999-2003 Best Young Investigator Award, Ministry of Higher Education, Science and Technology, Government of the Republic of Slovenia
- 2004-2006 The American Foundation for AIDS Research Fellowship Award
- 2010-2015 Academy of Finland Research Fellow Award
- 2012-2013 The Marsha Rivkin Center for Ovarian Cancer Research Pilot Study Award

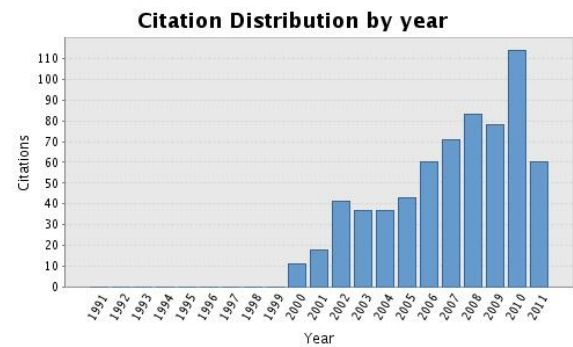
C. Key Publications & Citation Analysis (source: Harzing's Publish or Perish; TR Web of Knowledge)

# papers	# citations	h-factor	Years	Examples of major publications
16	711	12	1999-2011	Barboric et al., Mol Cell 2001, 190 citations; Zhang and Barboric et al., Genes Dev. 2003, 65 citations; Barboric and Peterlin, PLoS Biol. 2005, 59 citations; Barboric et al., EMBO J 2005, 34 citations; Barboric et al., PNAS U.S.A. 2009, 24 citations.

E. List of Publications and the Related Track-record

Total Publications and Citation Metrics Analysis*

Indicators	Number
Total publications	16
h-index	12
g-index	16
Total citations	711
Citations per publication	46,64
Citations per year	54,69
Years	1999-2011



*(source: Harzing's Publish or Perish; Thomson Reuters Web of Knowledge)

Publications (since becoming a group leader in 2010)

1. Lenasi, T., Peterlin, B.M., and **Barboric, M.** 2011. CBC links pre-mRNA capping to transcription elongation and alternative splicing through P-TEFb. *J Biol Chem.* 286: 22758-22768. 2 citations.
2. **Barboric, M.**, Lenasi, T. 2010. Kick-sTARting HIV-1 transcription elongation by 7SK snRNPdeporTATION. *Nat Struct Mol Biol.* 17:928-930. 3 citations.
3. Lenasi, T., and **Barboric, M.** 2010. P-TEFb stimulates transcription elongation and pre-mRNA splicing through multilateral mechanisms. *RNA Biol.* 7:145-150. 11 citations.

Selected Publications (as the first author)

4. **Barboric, M.**, Lenasi, T., Chen, H., Johansen, E.B., Guo, S. and Peterlin, B.M. 2009. 7SK snRNP/P-TEFb couples transcription elongation with alternative splicing and is essential for vertebrate development. *Proc. Natl. Acad. Sci. U S A.* 106: 7798-7803. 26 citations.
5. **Barboric, M.**, Yik, Y.H.N., Czudnochowski, N., Chen, R., Yang, Z., Contreras, X., Geyer, M., Peterlin, B.M. and Zhou, Q. 2007. Tat competes with HEXIM1 to increase the active pool of P-TEFb for HIV-1 transcription. *Nucleic Acids Res.* 35:2003-2012. 52 citations.
6. **Barboric, M.**, Kohoutek, J., Price, J.P., Blazek, D., Price, D.H., and Peterlin, B.M. 2005. Interplay between 7SK snRNA and oppositely charged regions in HEXIM1 direct the inhibition of P-TEFb. *EMBO J.* 24:4291-4303. 36 citations.
7. **Barboric, M.**, Zhang, F., Besenicar, M., Plemenitas, A., and Peterlin, B.M. 2005. Ubiquitylation of Cdk9 by Skp2 facilitates optimal Tat transactivation. *J.Virol.* 79:11135-11141. 16 citations.
8. **Barboric, M.**, and Peterlin, B.M. 2005. A New Paradigm in Eukaryotic Biology: HIV Tat and the control of transcriptional elongation. *PLoS. Biol.* 3:e76. 59 citations.
9. Zhang, F.*, **Barboric, M.***, Blackwell, T.K., and Peterlin, B.M. 2003. A model of repression: CTD analogs and PIE-1 inhibit transcriptional elongation by P-TEFb. *Genes Dev.* 17:748-758. *(these authors contributed equally to this work). 65 citations.
10. **Barboric, M.**, Nissen, R.M., Kanazawa, S., Jabrane-Ferrat, N., and Peterlin, B.M. 2001. NF-kB binds P-TEFb to stimulate transcriptional elongation by RNA polymerase II. *Mol Cell* 8:327-337. 190 citations.
11. **Barboric, M.**, Taube, R., Nekrep, N., Fujinaga, K., and Peterlin, B.M. 2000. The binding of Tat to TAR and recruitment of P-TEFb occur independently in BIV. *J.Virol.* 74:6039-6044. 23 citations.

Other Publications (as a co-author)

12. Contreras, X., **Barboric, M.**, Lenasi, T. and Peterlin, B.M. 2007. HMBA releases P-TEFb from HEXIM1 and 7SK snRNA via PI3K/Akt and activates HIV transcription. *PLoS Pathog.* 3:1459-1469. 43 citations.
13. Dames, S.A., Schonichen, A., Schulte, A., **Barboric, M.**, Peterlin, B.M., Grzesiek, S. and Geyer, M. 2007. Structure of the Cyclin T binding domain of Hexim1 and molecular basis for its recognition of P-TEFb. *Proc. Natl. Acad. Sci. U S A* 104:14312-14317. 20 citations.
14. Blazek, D., **Barboric, M.**, Kohoutek, J., Oven, I., and Peterlin, B.M. 2005. Oligomerization of HEXIM1 via 7SK snRNA and coiled-coil region directs the inhibition of P-TEFb. *Nucleic Acids Res.* 33:7000-7010. 31 citations.
15. Schulte, A., Czudnochowski, N., **Barboric, M.**, Schonichen, A., Blazek, D., Peterlin, B.M., and Geyer, M. 2005. Identification of a cyclin T-binding domain in Hexim1 and biochemical analysis of its binding competition with HIV-1 Tat. *J. Biol. Chem.* 280:24968-24977. 55 citations.
16. Taube, R., Fujinaga, K., Wimmer, J., **Barboric, M.**, and Peterlin, B.M. 1999. Tat Transactivation: a model for the regulation of eukaryotic transcriptional elongation. *Virology* 264:245-253. 124 citations.

F. Book Chapters

1. **Barboric, M.**, Lenasi, T., Lovsin, N. and Ule, J. 2009. The genes and the junk: recent advances in the studies of gene regulation. In *Philosophical Insights about Modern Science*, eds Zirovnik, E., Markic, O., and Ule, A. *Nova Science Publishers, NY*.

G. Selected Peer-reviewed Conference Proceedings (out of 10)

1. **Barboric, M.**, Lenasi, T., Chen, H., Johansen, E.B., Guo, S. and Peterlin, B.M. 2009. Coupling of transcription elongation to alternative splicing and controlling zebrafish embryonic development with 7SK snRNP/P-TEFb. In *Abstracts of papers presented at the 2009 meeting on Mechanisms of Eukaryotic Transcription, August 25-29, 2009, New York*, eds Buratowski, S., Graves, B., and Hahn, S. *Cold Spring Harbor Laboratory, NY*. p. 40.
2. **Barboric, M.**, and Peterlin, B.M. 2007. Intracellular nucleotide pool modulates the equilibrium between active and inactive P-TEFb. In *Abstracts of papers presented at the 2007 Meeting on Mechanisms of Eukaryotic Transcription, August 29-September 2, 2007, New York*, eds Graves, B., Hahn, S., and Workman, J. *Cold Spring Harbor Laboratory, NY*. p. 31.
3. **Barboric, M.**, Kohoutek, J., Price, J.P., Blazek, D., Price, D.H., and Peterlin, B.M. 2005. Regulating the regulator - Negative regulation of the HIV-1 cellular cofactor P-TEFb by HEXIM1/7SK snRNA. In *Abstracts of papers presented at the 2005 meeting on Mechanisms of Eukaryotic Transcription, August 31-September 4, 2005, New York*, ed Conaway, J. *Cold Spring Harbor Laboratory, NY*. p.
4. Zhang, F., **Barboric, M.**, Blackwell, T.K., and Peterlin, B.M. 2003. A model of repression: CTD analogs and PIE-1 inhibit transcriptional elongation by P-TEFb. In *Abstracts of papers presented at the 2003 meeting on Mechanisms of Eukaryotic Transcription, August 27-August 31, 2003, New York*, eds Conaway, J., Treisman, R., and Workman, J. *Cold Spring Harbor Laboratory, NY*.
5. **Barboric, M.**, Nissen, R.M., Kanazawa, S., Jabrane-Ferrat, N., and Peterlin, B.M. 2001. NF-kB binds P-TEFb to stimulate transcriptional elongation by RNA polymerase II. In *Abstracts of papers presented at the 2001 meeting on Mechanisms of Eukaryotic Transcription, August 29-September 2, 2001, New York*, eds Hernandez, N., Kingston, R., and Treisman, R. *Cold Spring Harbor Laboratory, NY*.