

BIOGRAPHICAL SKETCH			
Name: <b>EVA FORGACS, PhD</b>		Position title: <b>Assistant Professor</b>	
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Eötvös University, Budapest, Hungary	M.S.	1984	Biology, Chemistry
Eötvös University, Budapest, Hungary	Ph.D.	2003	Cellular and Molecular biology
Eastern Virginia Medical School	Post-Doc	2003-2006	Biochemistry, Biophysics

## A. Positions and Honors

### 1. Positions and Employment:

- 2009 - present    Assistant Professor, Eastern Virginia Medical School Department of Physiological Sciences
- 2006 – 2009      Research Assistant Professor, Eastern Virginia Medical School, Department of Physiological Sciences
- 2003 – 2006      Postdoctoral Fellow, Eastern Virginia Medical School, Department of Physiological Sciences
- 2001 – 2003      Research Associate, Eastern Virginia Medical School, Department of Microbiology and Molecular Cell Biology
- 1996 – 2000      Research Associate, University of Texas Southwestern Medical Center at Dallas, Hamon Center for Therapeutic Oncology

### 2. Other Experience and Professional Membership:

- 1989 - 1991      Laboratory Instructor, University of Pittsburgh, Department of Biological Sciences
- 2007 - present    Small group facilitator for Medical Biochemistry
- 2008 - present    Lecturer for Research Techniques, Advanced Cell Biology
- 2011 - present    Lecturer for Medical Biochemistry

Ad hoc reviewer for research journals “Oncogene” and “Journal of Biomedicine and Biotechnology”

Member of the Biophysical Society

### 3. Honors and awards:

- Postdoctoral Fellowship, American Heart Association, 2005-2007
- Co-chair of Platform Session on Myosin and Myosin-Family Proteins. Biophysical Society Annual Meeting, Salt Lake City, Utah, 2006.
- Travel Grant, International Biophysics Congress in Montpellier, France. National Academies and Biophysical Society, 2005
- Travel award, Eastern Virginia Medical School, Research Day 2003
- Travel award, Eastern Virginia Medical School, Research Day 2004
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### **B. Selected Peer-Reviewed Publications**

1. Jessica Haithcock, Neil Billington, Kevin Choi, Jennifer Fordham, James R. Sellers, Walter F. Stafford, Howard White and *Eva Forgacs*. The Kinetic Mechanism of Mouse MyosinVIIa. **J Biol Chem**. 2011 Mar 18;286(11):8819-28.
2. Olusola Oke, Stan Burgess, Eva Forgacs, Peter J Knight, Takeshi Sakamoto, James R Sellers, Howard White and John Trinick. Influence of lever structure on myosin 5a walking. *Proc Natl Acad Sci USA*., Feb 9;107(6):2509-14.
3. Thomas G. Baboolal, Takeshi Sakamoto, Eva Forgacs, Howard D. White, Scott M. Jackson, Yasuharu Takagi, Rachel E. Farrow, Justin E. Molloy, Peter J. Knight, James R. Sellers, Michelle Peckham. The SAH domain extends the functional length of the myosin lever. *Proc Natl Acad Sci USA*. 2009 Dec 29;106(52):22193-8.
4. Forgacs E, Sakamoto T, Cartwright S, Belknap B, Kovacs M, Toth J, Webb M.R. Sellers J.R. and White H.D.. The Switch-1 mutation Ser217Ala converts myosinV into a low duty cycle motor. *J Biol Chem*. 2009 Jan 23;284(4):2138-49.
5. Sakamoto T, Webb M.R., Forgacs E, White H.D., and Sellers J.R. Direct observation of the mechanochemical coupling in myosin V during processive movement. *Nature*, 2008. 2008 Sep 4;455(7209):128-32.
6. Forgacs E, Cartwright S, Sakamoto T, Sellers J, John E.T. Corrie, Martin R. Webb and White HD. Kinetics of ADP Dissociation From the Trail and Lead Heads of ActomyosinV Following the Powerstroke *J Biol Chem* 2008 Jan 11;283(2):766-73.3.
7. Forgacs E, Cartwright S, Kovacs M, Sakamoto T, Sellers JR, Corrie JE, Webb MR, and White HD. Kinetic mechanism of myosin V-S1 using a new fluorescent ATP analog. *Biochemistry* 2006;45(43):13035-45.
8. Forgacs E\*, Gupta SK\*, Kerry JA, and Semmes OJ. The bZIP transcription factor ATFx binds human T-cell leukemia virus type 1 (HTLV-1) Tax and represses HTLV-1 long terminal repeat-mediated transcription. *J Virol*. 2005; 79(11):6932-9. (\* the authors contributed equally)

9. Burbee DG, Forgacs E, Zochbauer-Muller S, Shivakumar L, Fong K, Gao B, Randle D, Kondo M, Virmani A, Bader S, Sekido Y, Latif F, Milchgrub S, Toyooka S, Gazdar AF, Lerman MI, Zabarovsky E, White M, and Minna JD. Epigenetic inactivation of RASSF1A in lung and breast cancers and malignant phenotype suppression. *J Natl Cancer Inst.* 2001;93(9):691-9.
10. Forgacs E, Wren JD, Kamibayashi C, Kondo M, Xu XL, Markowitz S, Tomlinson GE, Muller CY, Gazdar AF, Garner HR, and Minna JD. Searching for microsatellite mutations in coding regions in lung, breast, ovarian and colorectal cancers. *Oncogene.* 2001;20(8):1005-9.
11. Forgacs E, Zochbauer-Muller S, Olah E and Minna JD. Molecular genetic abnormalities in the pathogenesis of human lung cancer. *Pathol Oncol Res. Review.* 2001;7(1):6-13.
12. Wren JD, Forgacs E, Fondon JW 3rd, Pertsemididis A, Cheng SY, Gallardo T, Williams RS, Shohet RV, Minna JD, and Garner HR. Repeat polymorphisms with gene regions: phenotypic and evolutionary implications. *Am J Hum Genet.* 2000;67(2):345-56.
13. Latham GJ, Forgacs E, Beard WA, Prasad R, Bebenek K, Kunkel TA, Wilson SH, and Lloyd RS. Vertical-scanning mutagenesis of a critical tryptophan in the "minor groove binding track" of HIV-1 reverse transcriptase. Major groove DNA adducts identify specific protein interactions in the minor groove. *J Biol Chem.* 2000;275(20):15025-33.
14. Forgacs E, Biesterveld EJ, Sekido Y, Fong K, Muneer S, Wistuba II, Milchgrub S, Brezinschek R, Virmani A, Gazdar AF, and Minna JD. Mutation analysis of the PTEN/MMAC1 gene in lung cancer. *Oncogene.* 1998;17(12):1557-65.
15. Forgacs E, Latham F, Beard WA, Prasad R, Bebenek K, Kunkel AT, Wilson SH, and Lloyd RS. Probing structure/function relationships of HIV-1 reverse transcriptase with styrene oxide N2-guanine adducts. *J Biol Chem.* 1997;272(13):8525-30.

### C. Research support

1. "The Impact Of Cardiomyopathy Mutations on the Human  $\beta$ - Cardiac Myosin Motor Function". (PI: Eva Forgacs) . American Heart Association, Beginning Grant-In-Aid. 07/01/12- 06/30/12.
2. " Molecular Mechanism of Cardiomyopathy". (PI: Eva Forgacs) Jeffress Memorial Trust. J-1037 01/01/2012-06/30/2012. **Completed**
3. "The Effect Of Deafness Associated Mutations on Myosin VIIA Function". (PI: Eva Forgacs) NIH DC009335 05/01/2008-5/31/12. **Completed**
4. NIH/ DC009335 ARRA Supplement (PI: Eva Forgacs) 07/17/09-06/30/10 is to study the biochemistry and function of the Usher 1B deafness mutants. **Completed**