

A Rosendorff, MD

RESEARCH INTERESTS

My lab at the University of Pittsburgh focused on studying (i) The role of endoplasmic-reticulum stress, and autophagy in triggering escape from latency and entry into lytic replication, in in-vitro models of post-transplant and AIDS-associated EBV malignancies and (ii) Nucleosome remodeling in lytic replication (iii) EBV encoded and induced microRNAs in lytic replication

CLINICAL INTERESTS

- Molecular diagnostics of hemoglobin disorders
- Mass spec for therapeutic drug monitoring
- Next-generation sequencing approaches to diagnosis in virology

EDUCATION AND TRAINING

1988-1993 **BA, BA Hons** University of the Witwatersrand, Johannesburg, South Africa
 1995-2000 **MD** Mount Sinai School of Medicine, New York, NY
 2000-2005 Brigham and Women's Hospital and Harvard University, Boston MA Postdoctoral fellowship in infectious diseases
 2005-2008 **Resident in Clinical Pathology**, Brigham and Women's Hospital, Boston, MA

APPOINTMENTS AND POSITIONS

2008- **Assistant Professor of Pathology**, Department of Pathology, University of Pittsburgh, Pittsburgh, PA
Medical Director, Clinical Laboratories, Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA
Founder and Director, Hemoglobin Diagnostics Service, UPMC.

PROFESSIONAL CERTIFICATION AND LICENSURE

2008- Board Certification, Clinical Pathology (08-425)
 2008- Pennsylvania Medical License (MD435621)
 2008- Commonwealth of Massachusetts Medical License (Inactive)

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2008- American Society for Clinical Pathology (ASCP)
 2008- College of American Pathologists (CAP)
 2008- Society for Pediatric Pathology

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2007- Academy of Clinical Laboratory and Physician Scientists (ACLPS)

PRIZES AND AWARDS

2009- Howard Hughes Medical Institute Physician-Scientist Early Career Award
2002-2005 Leukemia and Lymphoma Society (LLS), Grant Awardee (Fellow),
2000 Morris B Bender Family Prize for Clinical Neurology,
1998-1999 Howard Hughes Medical Institute Research Training Fellowship
1992- Faculty of Arts Gold Medal, University of the Witwatersrand
1988- University Council Entrance Scholarship

INVITED REVIEWER ACTIVITY

2012- Ad-Hoc Reviewer, Current Microbiology
2012- Ad-Hoc Reviewer, Cellular Physiology and Biochemistry (Karger)
2011- European Journal of Immunology
2009- Ad-Hoc Reviewer, Journal of Pediatric Pathology
2008- Reviewer, CDC Evaluation of Genomic Applications in Practice and Prevention (EGAPP™) grants, Atlanta, GA,

UNIVERSITY ACTIVITIES

2012- Chair, Clinical Laboratory Standards Committee (CHP)
2010- Clinical Pathology Rotation Director: Pathology Residency (Junior Lab Director Program) and Pediatric Pathology Fellowship
2009- Physician representative, Executive Patient-Safety Committee (CHP)
2008- Member: Molecular Virology Program, UPCI
2008- Lecturer: Molecular Virology graduate course (Tumor Virology), UPCI and Hillman Cancer Center

MEETINGS AND ABSTRACTS (2012)

2012- International Conference on Oncogenic Herpesviruses and Associated Diseases, Philadelphia, PA, August 1-4, 2012) Epstein-Barr virus (EBV) ZTA interacts with histone modifying proteins MLL2 and JMJD2C to create an epigenetic footprint favoring lytic replication Taylor GM and **Rosendorff A**
2012- *Proteomics, Interactomes*. May 7-May 12, 2012, Stockholm, Sweden (Keystone Conferences) Epstein-Barr virus (EBV) ZTA interacts with histone modifying proteins MLL2 and JMJD2C to create an epigenetic footprint favoring lytic replication Taylor GM and **Rosendorff A**

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2012- AACR "Mass Spectrometry in the Clinical Lab: Best Practices and Current Applications"
September 6-7, Chicago, IL.

GRANT FUNDING

2008-2014 Howard Hughes Medical Institute, Physician-Scientist Early Career Award

PUBLICATIONS

- (1) Ami P. Shah, M.D., M.P.H; Benjamin T. Cobb; Darla R. Lower, MT(ASCP); Nader Shaikh, M.D.; Jayne Rassmusen, MPM, MT(ASCP); Alejandro Hoberman, M.D.; Ellen R. Wald, M.D.; **Adam Rosendorff, M.D.**; Robert W. Hickey, M.D. Enhanced vs. Automated Urinalysis for screening of Urinary Tract Infections in Children in the Emergency Department. (submitted *NEJM*)
- (2) **Adam Rosendorff**, Comparison of CEDIA FK506 assay with HPLC/MS/MS in a large cohort of pediatric patients (in-print *American Journal of Clinical Pathology*, Feb 2013)
- (3) Maurer S, **Rosendorff A** Hemoglobin Pittsburgh: Spurious hypoxemia by pulse oximetry due to a novel alpha-chain hemoglobin variant in a 12 year-old boy (accepted, *American Journal of Clinical Pathology*)
- (4) Activated Partial Thromboplastin Time is a Better Trending Tool in Pediatric ECMO Timothy M. Maul TM, Wolff EL, **Rosendorff A**, Morell VO and Wearden PD, *Pediatr Crit Care Med*. 2012 Nov;13(6):e363-71.
- (5) Taylor GM, Raghuvanshi SK, Wadowsky R, Rowe DT **Rosendorff, A** Endoplasmic Reticulum Stress Causes EBV lytic replication *Blood* August 17, 2011
- (6) Davies ML, Xu S, Lyons-Weiler J, **Rosendorff A**, Webber SA, Wasil LR, Metes D, Rowe DT. (2010) Cellular factors associated with latency and spontaneous Epstein-Barr virus reactivation in B-lymphoblastoid cell lines. *Virology*. 400:53-67
- (7) Garrido J, Maruo S, Takada K, **Rosendorff A** EBNA3C interacts with Gadd34 and counteracts the unfolded protein response. *Virology*. 2009 Dec 29;419(1):231.
- (8) **Rosendorff, A** and Dorfman, DD Factor V_{Leiden}: a review *Arch Pathol Lab Med*. 2007 Jun;131(6):866-71.
- (9) Portal D, **Rosendorff A**, Kieff E Epstein-Barr nuclear antigen leader protein co-activates transcription through interaction with histone deacetylase 4. *Proc Natl Acad Sci USA* 2006 103(51): 19278-83.
- (10) **Rosendorff A**, Sakakibara S, Lu S, Kieff E, Xuan Y, DiBacco A, Shi Y, Shi Y and Gill G NXP-2 association with SUMO-2 depends on lysines required for transcriptional repression. *Proc Natl Acad Sci U S A*. 2006 Apr 4;103(14):5308-13.

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- (11) **Rosendorff A**, David G, Lin J, Kieff E and Johannsen E. EBNA3C coactivation with EBNA2 requires a SUMO homology domain. J Virol. 2004 Jan;78(1):367-77.
- (12) **Rosendorff A**, Ebersole BJ, Sealfon S. Conserved helix 7 tyrosine functions as an activation relay in the serotonin 5HT_{2C} receptor Brain Res Mol Brain Res. 2000 Dec 8;84(1-2):90-6.
- (13) Chu JL, Ramos P, **Rosendorff A**, Nikolic-Zugic J, Lacy E, Matsuzawa A, Elkon KB. "Massive upregulation of Fas ligand in lpr and gld mice: implications for Fas regulation and the graft-versus-host disease-like wasting syndrome." J. Exp. Med. 1995;181:393-398.

REFERENCES:

Available upon request