

CURRICULUM VITAE  
**DANIEL A. HARKI**

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***Educational Background***

- 1999-2005 Ph.D. in Chemistry, The Pennsylvania State University  
1995-1999 B.A. *magna cum laude* in Chemistry and Biology (double major), West Virginia University

***Professional Experience***

- 2005-2009 Postdoctoral Scholar in Chemistry, California Institute of Technology, Division of Chemistry and Chemical Engineering  
*Research:* Development of [<sup>18</sup>F]-fluorine-labeled pyrrole-imidazole polyamides for *in vivo* imaging by positron emission tomography. New methods for polyamide synthesis.  
*Advisor:* Professor Peter B. Dervan
- 1999-2005 Graduate Research in Chemistry, The Pennsylvania State University, Department of Chemistry  
*Thesis:* Chemical synthesis of base-modified ribonucleosides as novel antiviral agents.  
*Advisor:* Professor Blake R. Peterson
- 1998-1999 Undergraduate Research in Chemistry, West Virginia University, Department of Chemistry  
*Research:* Synthesis of illudin analogues.  
*Advisor:* Professor Kay M. Brummond
- 1997-1999 Biological Science Laboratory Technician, Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), Morgantown, WV  
*Research:* Immunotoxicology studies of arsenic exposure.  
*Supervisor:* Dr. Michael I. Luster

***Academic Appointment***

- 2009-present Assistant Professor of Medicinal Chemistry, University of Minnesota, Minneapolis, MN

***Awards and Honors (Representative)***

- 2007-2009 California Tobacco-Related Disease Research Program, Postdoctoral Fellowship  
2006-2007 Friedreich's Ataxia Research Alliance, Postdoctoral Fellowship  
2003 Braucher Fellowship, The Pennsylvania State University, Department of Chemistry  
2002-2005 American Heart Association, Predoctoral Fellowship  
2001 Dalalian Fellowship, The Pennsylvania State University, Department of Chemistry  
1999 Phi Beta Kappa, Alpha of West Virginia, West Virginia University

**Professional Affiliations and Other Experience**

- 2009-present Member, American Association of Colleges of Pharmacy  
2009-present Member, Masonic Cancer Center, University of Minnesota  
2009-present Principal Investigator, Minnesota Supercomputing Institute  
2009-present Ad hoc reviewer: *DNA Repair*  
1999-present Member, American Chemical Society

**Publications as a Postdoctoral Scholar, Graduate Student, and Undergraduate Student**

12. Chenoweth DM, Harki DA, and Dervan PB “Oligomerization route to Py-Im polyamide macrocycles” *Org. Lett.* **2009**, *11*, 3590-3593.
11. Chenoweth DM, Harki DA, Phillips JW, Dose C, and Dervan PB “Cyclic pyrrole-imidazole polyamides targeted to the androgen response element” *J. Am. Chem. Soc.* **2009**, *131*, 7182-7188.
10. Chenoweth DM, Harki DA, and Dervan PB “Solution-phase synthesis of pyrrole-imidazole polyamides” *J. Am. Chem. Soc.* **2009**, *131*, 7175-7181.
9. Harki DA, Satyamurthy N, Stout DB, Phelps ME, and Dervan PB “*In vivo* imaging of pyrrole-imidazole polyamides with positron emission tomography” *Proc. Natl. Acad. Sci. USA* **2008**, *105*, 13039-13044.
8. Zamyatkin DF, Parra F, Martín Alonso JM, Harki DA, Peterson BR, Grochulski P, and Ng KKS “Structural insights into mechanisms of catalysis and inhibition in Norwalk virus polymerase” *J. Biol. Chem.* **2008**, *283*, 7705-7712.
7. Graci JD, Too K, Smidansky ED, Edathil JP, Barr EW, Harki DA, Galarraga JE, Bollinger Jr. JM, Peterson BR, Loakes D, Brown DM, and Cameron CE “Lethal mutagenesis of picornaviruses with *N*<sup>6</sup>-modified purine nucleoside analogues” *Antimicrob. Agents Chemother.* **2008**, *52*, 971-979.
6. Graci JD, Harki DA, Korneeva VS, Edathil JP, Too K, Franco D, Smidansky ED, Paul AV, Peterson BR, Brown DM, Loakes D, and Cameron CE “Lethal mutagenesis of poliovirus mediated by a mutagenic pyrimidine analogue” *J. Virol.* **2007**, *81*, 11256-11266.
5. Harki DA, Graci JD, Edathil JP, Castro C, Cameron CE, and Peterson BR “Synthesis of a universal 5-nitroindole ribonucleotide and incorporation into RNA by a viral RNA-dependent RNA polymerase” *ChemBioChem* **2007**, *8*, 1359-1362.
4. Harki DA, Graci JD, Galarraga JE, Chain WJ, Cameron CE, and Peterson BR “Synthesis and antiviral activity of 5-substituted cytidine analogues: identification of a potent inhibitor of viral RNA-dependent RNA polymerases” *J. Med. Chem.* **2006**, *49*, 6166-6169.
3. Simeonova PP, Hulderman T, Harki D, Luster MI “Arsenic exposure accelerates atherogenesis in apolipoprotein E-/- mice” *Environ. Health Perspect.* **2003**, *111*, 1744-1748.
2. Harki DA, Graci JD, Korneeva VS, Ghosh SKB, Hong Z, Cameron CE, and Peterson BR “Synthesis and antiviral evaluation of a mutagenic and non-hydrogen bonding ribonucleoside analogue: 1-β-D-ribofuranosyl-3-nitropyrrole” *Biochemistry* **2002**, *41*, 9026-9033.
1. Simeonova PP, Wang S, Toriuma W, Kommineni V, Matheson J, Unimye N, Kayama F, Harki D, Ding M, Vallyathan V, Luster MI “Arsenic mediates cell proliferation and gene expression in the bladder epithelium: association with activating protein-1 transactivation” *Cancer Res.* **2000**, *60*, 3445-3453.