



**POST GRADUATE:**

2002	Physician Leadership Development Program McCull Graduate School of Business Queens University of Charlotte		
2005	Physician Leadership Development Program McCull Graduate School of Business Queens University of Charlotte		
1991 – 1995	West Penn Hospital Pittsburgh, PA	Resident Internal Medicine	Dr. Herbert S. Diamond
1986 – 1987	University of Pittsburgh Department of Chemistry	Post Doctorate Research	Dr. Paul Dowd

**APPOINTMENT AND POSITIONS**

**ACADEMIC:**

1997-2002	Department of Pharmacology, Clinical Pharmacology Program University of Pittsburgh, WPIC (Western Psychiatric Institute/Clinic) Room E-1203, Dr. James Perel 3811 O’Hara Street, Pittsburgh, PA 15213 phone: 412-624-2198; fax: 412-624-2026		
1997-2001	Department of Medicine School of Medicine University of Pittsburgh		Clinical Instructor
1991-Present	Department of Chemistry University of Pittsburgh		Research Associate Dr. Wilcox, Dr. Dowd
1987-1989	Department of Pharmacology School of Medicine		Research Associate Dr. Alvin
Curriculum Vitae			Roger K. Hershline, Ph.D., M.D.
March 23, 2006			

University of Pittsburgh

1986-1987	Department of Chemistry University of Pittsburgh	Post-doctoral Research Assistant Dr. Dowd
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**NON-ACADEMIC POSITIONS:**

2001 – Present	RKH Pharmaceutical Co. Inc. Charlotte, NC	President
1997-Present	Pharmakon, Inc. Pittsburgh, PA	Medical Director
1999 – 2005	Workwell N.C, Inc. Charlotte, NC	Clinical Director
1997-1999	Workwell, Inc. Carnegie, PA	Occupational Medicine Physician
1995-1997	Emergency Department Forbes Regional Hospital Monroeville, PA	Medical Staff Physician
1995-1997	Emergency Department Brownsville Hospital Brownsville, PA	Emergency Room Physician
2/95-4/95	Emergency Department Armstrong County Memorial Hospital Kittanning, PA	Emergency Room Physician
1994-1995	Corporate Health Services Canonsburg General Hospital Canonsburg, PA	Occupational medicine Physician
1994-1995	Golani and Associates West Penn Hospital Pittsburgh, PA	Private Practice, Internal Medicine

Curriculum Vitae

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Roger K.  
Hershline, Ph.D.,  
M.D.

**OTHER EXPERIENCE:**

Medical case review  
Expert witness deposition and testimony  
Drug development  
Experimental design

**CERTIFICATION AND LICENSURE**

**SPECIALTY CERTIFICATION:**

Certifying Board:	Year
International Risk Management Institute Registered Workers Compensation Specialist	2003
American Association of Medical Review Officers	1999
Internal Medicine Board Eligible	1994
Advanced Trauma Life Support	1994
Advanced and Basic Critical Life Support	1994
Medic Command Base Station	1994

**MEDICAL OR OTHER PROFESSIONAL LICENSURE**

Medical Physician and Surgeon Licensure

Commonwealth of Pennsylvania M.D. – 052614-L	1994 – Present
State of North Carolina North Carolina Medical Board M.D. – 99-00530	1999 – Present
State of South Carolina South Carolina Medical Board MD 27824	May 2005

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M.D.

United State Department of Justice

Drug Enforcement Administration  
Controlled Substance Registration Certificate  
No. DEA BH 4025335

1994-Present

State of South Carolina  
Controlled Substance License  
20-27824

May 2005

North Carolina Board of Pharmacy

Registered Dispensing Physician  
Registration NO. 02121

1999 - Present

North Carolina Wholesale Prescription Drug Distributors  
Manufacturer, Repackager, Relabeler and Distributor License

2004 M3099

**MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

American Medical Association	1990-Present
Pennsylvania Medical Society (PMS)	1990-2000
Allegheny Medical Society	1990-2000
American Chemical Society	1981-Present
North Carolina Medical Society	1999 - Present
Legislative Committee NCMS	2000 - Present

**HONORS**

Resident Research Grant  
West Penn Hospital, Pittsburgh, PA

February 1993

Resident Research Award  
West Penn Hospital, Pittsburgh, PA

June 1992

Gold Medal Award  
Cheeseborough Ponds

June 1990

Strathmore's Who's Who Leadership Award

2001 – 2002

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M.D.

## PUBLICATIONS

### Patents

1. Antiviral Composition, U.S. Patent November 23, 2004: **6,821,958**. Represented by Barbara Johnson of Webb, Ziesenheim Logsdon Orkin and Hanson, P.C., Pittsburgh, PA 15219 – 1818, 412-471-8815.
2. Antiviral Composition CIP, pending.

### Refereed articles.

1. Dowd P, **Hershline R**, Ham SW, Naganathan S. Vitamin K and energy transduction: A base strength amplification mechanism. *Science*, 269:1685, 1995.
2. Naganathan S, **Hershline R**, Ham SW, Dowd P. The active site of Vitamin K and the role of the Vitamin K-dependent carboxylase. *J Am Chem Soc*, 116:9831-9839, 1994.
3. Zhang W, **Hershline R**, Dowd P. A highly efficient preparation of NG-methyl-D-arginine. *Synthetic Communication*, 24:2789, 1994.
4. Naganathan S, **Hershline R**, Ham SW, Dowd P. The active site of Vitamin K. Regiospecific oxygenation of Vitamin K hydroquinone in its role as carboxylase cofactor. *J. Am Chem Soc*, 115:5839, 1993.
5. Dowd P, **Hershline R**. Carbon-13 labelling study of the coenzyme B<sub>12</sub> dependent methylitaconate alpha-methyleneglutarate model rearrangement reaction and examination of potential cyclopropane intermediates. *J Chem Soc, Perkin Transactions II*, 61, 1988.
6. Dowd P, **Hershline R**. Carbon-13 labelling study of the coenzyme B<sub>12</sub> dependent methylitaconate -

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alpha-methyleneglutarate model rearrangement reaction and examination of potential cyclopropane intermediates. J Chem Soc, Chemical Communication, 1409, 1986.

7. Marshall L, **Hershline R**. Regarding asymmetric induction. Tet Lett:2999, 1980.

**Reviews, invited published papers, proceedings of conferences and symposia, monographs, books and book chapters:**

1. Dowd P, Zheng ZB, **Hershline R**, Ham SW, Naganathan S, Kerns J. Vitamin K mechanism of action and its bearing on Vitamin E. In "Molecular Design and Bioorganic Catalysts", CS Wilcox and AD Hamilton (eds.), Kluwer Academic Publisher, Amsterdam, 15-34, 1996.
2. Dowd P, Ham SW, Naganathan S, **Hershline R**. The mechanism of action of Vitamin K. Annual Review of Nutrition, 15:419, 1996.
3. Dowd P, **Hershline R**, Ham SW, Naganathan S. Mechanism of action of Vitamin K. Natural Products Reports, 11:251, 1994.
4. Dowd P, Ham SW, **Hershline R**. On the mechanism of action of Vitamin K. Proceedings of the 5<sup>th</sup> International Symposium on the Chemistry of Natural Products, A-U Rahman (ed.), Harwood Academic Publishers, Chur, Switzerland, 331-350, 1992.

**Published Abstracts:**

1. Dowd P, **Hershline R**, Ham SW. On the mechanism of action of Vitamin K. Chemtracts-Organic Chemistry, 7:1, 1994
2. **Hershline R**, Dowd P. The effect of aspirin on prothrombin time. Abstract in Western Pennsylvania Hospital Resident Research Day, May, 1994.
3. **Hershline R**, Dowd P. The molecular mechanism of Vitamin K. Abstract in Western Pennsylvania Hospital Resident Research Day, May, 1993.