

DONALD J. WOLANIN, Ph.D.

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PROFILE: *Effective written and verbal communication skills as an educator at university and high school levels. Proven expertise in Research and Development continuum for Pharmaceutical companies. Consistent career progression on scientific and management ladders. Adept in developing and/or directing groups that integrate in cross-functional teams to achieve objectives; identifying methods to improve existing work processes; facilitating communications across work functions.*

EDUCATION:

1984 **HARVARD UNIVERSITY**, Cambridge, Massachusetts
DOCTOR OF PHILOSOPHY / CHEMISTRY
Completed PhD studies at Stanford University, while matriculating as a Traveling Scholar at Harvard University

1979 **MASTER OF ARTS / CHEMISTRY**

1977 **UNIVERSITY OF CHICAGO**, Chicago, Illinois
BACHELOR OF SCIENCE / CHEMISTRY
Phi Beta Kappa and Student Aide

TEACHING EXPERIENCE:

2015-Current **TRINITY COLLEGE**, Hartford, CT (December, 2023 – Current)
YALE UNIVERSITY, New Haven, CT (June-July, 2022)
WESTERN CONNECTICUT STATE, Waterbury, CT (September, 2021 – Current)
POST UNIVERSITY, Waterbury, CT (September, 2020 – May, 2021)
NAUGATUCK VALLEY CC, Waterbury, CT (September, 2020 – Current)
SACRED HEART UNIVERSITY, Fairfield, CT (January-December 2020)
FAIRFIELD UNIVERSITY, Fairfield, CT (September, 2016 – May, 2023)
SOUTHERN CT STATE UNIVERSITY, New Haven, CT (January-May, 2016)
UNIVERSITY OF NEW HAVEN, West Haven, CT (August, 2015 – May, 2018)
DEPARTMENT OF CHEMISTRY
ADJUNCT FACULTY MEMBER

Teach laboratory and lecture courses for Organic Chemistry; General Chemistry; and General Chemistry, Organic and Biological Chemistry for Health Sciences.

2018-2019 **FAIRFIELD COLLEGE PREPARATORY SCHOOL**, Fairfield, Connecticut
TEACHER (August, 2018 – June, 2019)

Teach Introductory Chemistry for Juniors and Seniors.

2018-Current **PRIVATE TUTOR**, Fairfield, Connecticut

Tutor individual students in Math, Chemistry and ACT exam preparation.

2017-2018 **UNIVERSITY OF NEW HAVEN**, West Haven, Connecticut
CENTER FOR LEARNING RESOURCES TUTOR

Tutor students in Math and General/Organic Chemistry.

1977-1981 **HARVARD UNIVERSITY**, Cambridge, Massachusetts
HEAD TEACHING FELLOW-ORGANIC CHEMISTRY
TEACHING FELLOW-ORGANIC CHEMISTRY

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PHARMACEUTICAL EXPERIENCE:

1992-2005 **BAYER CORPORATION**, West Haven, Connecticut, (Bayer U.S. Discovery Operations have closed).

DEPARTMENT OF CHEMISTRY-PHARMACEUTICAL DIVISION

DIRECTOR OF RESEARCH (2000-2005)

Directed research efforts to maintain critical timelines. Primary functions included: recruiting, training, and directing work of six PhDs and 16 Bachelor/Master level scientists; conducting performance reviews; preparing comprehensive written and oral summaries of ongoing work; working closely with senior management and staff members individually and in project teams to ensure meeting of critical/global deadlines and to discuss policy and procedural issues; managing cost center with annual budget of \$2+ million; orchestrating outsourcing efforts and managing expenses against established budget; monitoring progress and providing updates to appropriate Bayer Research Center staff.

- *Successfully and consistently established and met scientific goals, timelines and budget parameters for critical function within an international pharmaceutical company.*
- *Chief end-user liaison with engineering on a \$53 million new Research Building Project.*

ASSOCIATE DIRECTOR OF RESEARCH (1998-2000)

Supervised process research and large-scale laboratory that synthesized bulk drug for all preclinical studies. Supported production of bulk intermediates and reference standards for ongoing strategic and exploratory programs. Additional key functions included: recruiting, training, and directing work of four PhDs and 12 Bachelor/Master level chemists; conducting performance reviews; preparing comprehensive written and oral summaries of ongoing work and completed projects; driving/meeting critical timelines.

SENIOR STAFF SCIENTIST (1995-1998)

Drove optimization studies to support identification of preclinical candidates. Developed relationships within academic communities.

- *Managed laboratory that delivered development candidates in the therapeutic areas of cancer and diabetes.*
- *Designed and synthesized metalloprotease inhibitors as potential medicinal agents in therapeutic areas of arthritis and cancer; identified preclinical development candidate.*
- *Co-leader of exploratory research on osteoporosis.*

STAFF SCIENTIST (1992-1994)

1984-1992 **ICI PHARMACEUTICALS GROUP**, (Currently AstraZeneca) Wilmington, Delaware

MEDICINAL CHEMISTRY DEPARTMENT

SENIOR RESEARCH CHEMIST (1988-1992)

RESEARCH CHEMIST (1984-1987)

- *Designed and synthesized serine protease inhibitors as potential medicinal agents in therapeutic areas of respiratory diseases; participated in the identification of two preclinical development candidates and one back-up candidate.*

ENTREPRENEURIAL EXPERIENCE:

2005-Current **INDIVIDUAL INVESTOR/CONSULTANT**

Launched a successful entrepreneurial venture as an individual trader/investor of equities, options, currencies and futures. Delivered weekly performance feedback sessions to other trader/investors located in four New England states.

PUBLICATIONS:

- C. A. Veale, P. R. Bernstein, C. M. Bohnert, F. J. Brown, C. Bryant, J. R. Damewood, Jr., R. Earley, S. W. Feeney, P. D. Edwards, B. Gomes, J. M. Hulsizer, B. J. Kosmider, R. D. Krell, G. Moore, T. W. Salcedo, A. Shaw, D. S. Silberstein, G. B. Steelman, M. Stein, A. Strimpler, R. M. Thomas, E. P. Vacek, J. C. Williams, D. J. Wolanin, S. Woolson, "Orally Active Trifluoromethyl Ketone Inhibitors of Human Leukocyte Elastase", J. Med. Chem. **40**, 3173 (1997).
- P. D. Edwards, D. W. Andisik, C. A. Bryant, B. Ewing, B. Gomes, J. L. Lewis, D. Rakiewicz, G. Steelman, A. Strimpler, D. A. Trainor, P. A. Tuthill, R. C. Mauger, C. A. Veale, R. A. Wildonger, J. C. Williams, D. J. Wolanin and M. Zottola, "Discovery and Biological Activity of Orally Active Peptidyl Trifluoromethyl Ketone Inhibitors of Human Neutrophil Elastase", J. Med. Chem. **40**, 1876 (1997).
- P. R. Bernstein, C. Bryant, C. Ceccarelli, J. R. Damewood, Jr., R. Earley, S. W. Feeney, B. C. Gomes, B. J. Kosmider, G. B. Steelman, R. M. Thomas, E. P. Vacek, J. C. Williams, D. J. Wolanin, S. A. Woolson and C. A. Veale, "Nonpeptidic Inhibitors of Human Leukocyte Elastase. 5. Design, Synthesis and X-Ray Crystallography of a Series of Orally Active 5-Amino Pyrimidin-6-ones", J. Med. Chem. **38**, 98 (1995).
- P. D. Edwards, D. J. Wolanin, D. W. Andisik and M. W. Davis, "Peptidyl α -Ketoheterocyclic Inhibitors of Human Neutrophil Elastase. 2. Effect of Varying the Heterocyclic Ring on *in Vitro* Potency", J. Med. Chem. **38**, 76 (1995).
- P. D. Edwards, D. J. Wolanin, D. W. Andisik and M. W. Davis, "Peptidyl α -Ketoheterocyclic Inhibitors of Human Neutrophil Elastase. 2. Effect of Varying the Heterocyclic Ring on *in Vitro* Potency", J. Med. Chem. **38**, 76 (1995).
- P. R. Bernstein, D. W. Andisik, P. K. Bradley, C. B. Bryant, C. Ceccarelli, J. R. Damewood, Jr., R. Earley, P. D. Edwards, S. Feeney, B. C. Gomes, B. J. Kosmider, G. B. Steelman, R. M. Thomas, E. P. Vacek, C. A. Veale, J. C. Williams, D. J. Wolanin and S. A. Woolson, "Nonpeptidic Inhibitors of Human Leukocyte Elastase. 3. Design, Synthesis, X-Ray Crystallographic Analysis and Structure-Activity Relationships for a Series of Orally Active 3-Amino-6-Phenylpyridin-2-ones", J. Med. Chem. **37**, 3313 (1994).
- J. R. Damewood, Jr., P. D. Edwards, S. Feeney, B. Gomes, G. B. Steelman, P. A. Tuthill, J. C. Williams, P. Warner, S. A. Woolson, D. J. Wolanin and C. A. Veale, "Nonpeptidic Inhibitors of Human Leukocyte Elastase. 2. Design, Synthesis and *in Vitro* Activity of a Series of 3-Amino-6-arylpyridin-2-one Trifluoromethylketones", J. Med. Chem. **37**, 3303 (1994).
- F. J. Brown, D. W. Andisik, P. R. Bernstein, C. B. Bryant, C. Ceccarelli, J. R. Damewood, Jr., P. D. Edwards, R. A. Earley, S. W. Feeney, R. C. Green, B. Gomes, B. J. Kosmider, R. D. Krell, A. Shaw, G. B. Steelman, R. M. Thomas, E. P. Vacek, C. A. Veale, P. A. Tuthill, P. Warner, J. C. Williams, D. J. Wolanin and S. A. Woolson, "The Design of Orally Active, Non-Peptidic Inhibitors of Human Leukocyte Elastase", J. Med. Chem. **37**, 1261 (1994).
- R. T. Jacobs, C. A. Veale and D. J. Wolanin, "Pulmonary and Antiallergy Agents" in Annual Reports in Medicinal Chemistry, Vol. 27, J. Bristol ed., Academic Press (1992), pp. 109-118.
- D. J. Wolanin and J. B. Campbell, "Pulmonary and Antiallergy Agents" in Annual Reports in Medicinal Chemistry, Vol. 26, J. Bristol ed., Academic Press (1991), pp. 113-122.
- A. Shaw, R. A. Roberts and D. J. Wolanin, "Small Substrates and Inhibitors of the Metalloprotease of Rabbit Articular Chondrocytes" in New Perspectives in Anti-Inflammatory Therapies, Advances in Inflammation Research, Vol. 12, A. Lewis, N. Ackerman and I. Otterness eds., Raven Press (1988), pp. 67-79.

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PUBLICATIONS CONTINUED...

C. B. Caputo, L. A. Sygowski, S. P. Patton, D. J. Wolanin, A. Shaw, R. A. Roberts and G. DiPasquale, "Protease Inhibitors Decrease Rabbit Cartilage Degradation After Meniscectomy", J. Orthop. Res. **6**, 103 (1988).

C. B. Caputo, D. J. Wolanin, R. A. Roberts, L. A. Sygowski, S. P. Patton, R. G. Caccese, A. Shaw and G. DiPasquale, "Proteoglycan Degradation by a Chondrocyte Metalloprotease: Effects of Synthetic Protease Inhibitors", Biochem. Pharm. **36**, 995 (1987).

C. B. Caputo, L. A. Sygowski, D. J. Wolanin, S. P. Patton, R. G. Caccese, A. Shaw, R. A. Roberts and G. DiPasquale, "Effect of Synthetic Metalloprotease Inhibitors on Cartilage Autolysis *in Vitro*", J. Pharm. Exp. Ther. **240**, 460 (1987).

R. Filler, G. L. Cantrell, D. J. Wolanin and S. M. Naqvi, "Synthesis of Polyfluoroaryl [2.2] Cyclophanes", J. Fluorine Chem. **30**, 399 (1986).

P. A. Wender and D. J. Wolanin, "Total Synthesis of Quadrone and Terrecyclic Acid A", J. Org. Chem. **50**, 4418 (1985).

ABSTRACTS:

G. H. Benz, D. R. Brittelli, S. Bjorge, W. H. Bullock, D.-S. Chien, J. M. Chen, J. D. Cooley, B. R. Dixon, T. Housley, J. S. Johnson, S. Katti, H. C. E. Kluender, R. H. Kramss, M. J. Niedbala, M. A. Popp, C. A. Perry, J. Rivera, A. Robbins, R. Schoenleber, S. Schwartz, M. C. Van Zandt, S. M. Wilhelm, D. J. Wolanin, J. E. Wood, "SAR Within the Biphenyl Class of MMP Inhibitors: Exploration of Prime and Non-Prime Binding Sites" presented at NERM 2000, Storrs, CT, June 18-21, 2000.

J. R. Damewood, Jr., D. W. Andisik, P. R. Bernstein, C. B. Bryant, S. W. Feeney, B. C. Gomes, R. C. Green, B. J. Kosmider, G. B. Steelman, R. M. Thomas, E. P. Vacek, C. A. Veale, P. Warner, D. J. Wolanin and S. A. Woolson, "Nonpeptidic Inhibitors of Human Neutrophil Elastase" presented at the 207th ACS National Meeting, San Diego, CA, March 13-17, 1994.

P. R. Bernstein, D. W. Andisik, C. B. Bryant, C. Ceccarelli, J. R. Damewood, Jr., S. W. Feeney, B. C. Gomes, R. C. Green, B. J. Kosmider, G. B. Steelman, R. M. Thomas, E. P. Vacek, C. A. Veale, P. Warner, D. J. Wolanin and S. A. Woolson, "The Synthesis and Evaluation of a Series of Nonpeptidic, Reversible Inhibitors of Human Leukocyte Elastase" presented at the Medicinal Chemistry Gordon Conference, New London, NH, August 1-6, 1993.

P. D. Edwards, D. J. Wolanin, J. Williams, A. M. Strimpler, E. F. Meyer, Jr. and J. Vijayalakshmi, "Peptidyl α -Ketoheterocycle Inhibitors of Human Leukocyte Elastase" presented at the Medicinal Chemistry Gordon Conference, New London, NH, July 31-August 4, 1989.

R. D. Krell, R. L. Stein, A. M. Strimpler, D. Trainor, P. Edwards, D. Wolanin, R. Wildonger, J. Schwartz, B. Hesp, R. E. Giles and J. C. Williams, "Biochemical Characterization of ICI 200,880: A Novel, Potent and Selective Inhibitor of Human Neutrophil Elastase", FASEB J. **2**, A346 (1988).

J. C. Williams, R. L. Stein, C. Knee, J. Egan, R. Falcone, D. Trainor, P. Edwards, D. Wolanin, R. Wildonger, J. Schwartz, B. Hesp, R. E. Giles and R. D. Krell, "Pharmacologic Characterization of ICI 200,880: A Novel, Potent and Selective Inhibitor of Human Neutrophil Elastase", FASEB J. **2**, A346 (1988).

D. W. Andisik, S. H. Bergeson, P. D. Edwards, M. M. Stein, D. A. Trainor and D. J. Wolanin, "Synthesis of Peptidyl Trifluoromethylketone Inhibitors of Human Leukocyte Elastase" presented at the Tenth American Peptide Symposium, Washington University,

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INVITED LECTURES:

The Second Conference of the French-American Chemical Society, Captiva Island, Florida (1991).

Villanova University, Villanova, Pennsylvania (1991).

PATENTS:

B. R. Dixon, C. Bagi, C. R. Brennan, D. R. Brittelli, W. H. Bullock, J. Chen, W. L. Collibee, R. Dally, J. S. Johnson, H. C. E. Kluender, W. F. Lathrop, P. Liu, C. A. Mase, A. M. Redman, W. J. Scott, K. Urbahns, D. J. Wolanin, "Substituted 2-Arylimino Heterocycles and Compositions Containing Them, for Use as Progesterone Receptor Binding Agents", U. S. Patent 6,353,006 (2002).

W. R. Schoen, G. H. Ladouceur, J. H. Cook, II, T. G. Lease, D. J. Wolanin, R. H. Kramss, D. L. Hertzog, M. H. Osterhout, "Substituted Biphenyls", U. S. Patent 6,218,431 (2001).

H. C. E. Kluender, G. H. H. Benz, D. R. Brittelli, W. H. Bullock, K. J. Combs, B. R. Dixon, S. Schneider, J. E. Wood, M. C. Van Zandt, D. J. Wolanin, S. M. Wilhelm, "Substituted 5-Biarylbutanoic Acids and Derivatives as Matrix Metalloprotease Inhibitors", U. S. Patent 6,166,082 (2000).

H. C. Kluender, B. R. Dixon, M. C. Van Zandt, S. M. Wilhelm, D. J. Wolanin, W. H. Bullock, "Substituted 4-Biarylbutyric Acid Derivatives as Matrix Metalloprotease Inhibitors", U. S. Patent 5,886,043 (1999).

H. C. Kluender, W. H. Bullock, B. R. Dixon, S. Schneider, M. C. Van Zandt, S. M. Wilhelm, D. J. Wolanin, "Substituted Cycloalkanecarboxylic Acid Derivatives as Matrix Metalloprotease Inhibitors", U. S. Patent 5,886,022 (1999).

H. C. Kluender, G. H. Benz, K. J. Combs, B. R. Dixon, M. C. Van Zandt, S. M. Wilhelm, D. J. Wolanin, J. E. Wood, S. Schneider, "Substituted Cycloalkanecarboxylic Acid Derivatives as Matrix Metalloprotease Inhibitors", U. S. Patent 5,874,473 (1999).

H. C. Kluender, B. R. Dixon, M. C. Van Zandt, S. M. Wilhelm, D. J. Wolanin, "Substituted 4-Biarylbutyric Acid Derivatives as Matrix Metalloprotease Inhibitors", U. S. Patent 5,861,428 (1999).

H. C. Kluender, G. H. Benz, D. R. Brittelli, B. R. Dixon, M. C. Van Zandt, S. M. Wilhelm, D. J. Wolanin, "Substituted 4-Biarylbutyric Acid Derivatives as Matrix Metalloprotease Inhibitors", U. S. Patent 5,861,427 (1999).

H. C. Kluender, D. R. Brittelli, W. H. Bullock, K. J. Combs, B. R. Dixon, M. C. Van Zandt, S. M. Wilhelm, D. J. Wolanin, "Substituted 4-Biarylbutyric Acid Derivatives as Matrix Metalloprotease Inhibitors", U. S. Patent 5,859,047 (1999).

H. C. Kluender, G. H. Benz, W. H. Bullock, B. R. Dixon, M. C. Van Zandt, S. M. Wilhelm, D. J. Wolanin, J. E. Wood, D. R. Brittelli, "Thiophenebutanoic Acid Derivatives as Matrix Metalloprotease Inhibitors", U. S. Patent 5,854,277 (1998).

D. J. Wolanin, "Inhibition of Matrix Metalloproteases by Substituted Phenalkyl Compounds", U. S. Patent 5,804,581 (1998).

H. C. Kluender, G. H. Benz, D. R. Brittelli, W. H. Bullock, K. J. Combs, B. R. Dixon, J. E. Wood, M. C. Van Zandt, D. J. Wolanin, S. M. Wilhelm, "Derivatives of Substituted 4-Biarylbutyric Acid as Matrix Metalloprotease Inhibitors", U. S. Patent 5,789,434 (1998).

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P. R. Bernstein, P. D. Edwards, A. Shaw, A. B. Shenvi, R. M. Thomas, C. A. Veale, P. Warner and D. J. Wolanin, "1-Pyrimidinylacetamide Compounds Which are Inhibitors of Human Leukocyte Elastase", U. S. Patent 5,736,535 (1998).

D. J. Wolanin, "Peptide Derivatives", U. S. Patent 5,723,442 (1998).

P. R. Bernstein, A. Shaw, R.M. Thomas, C. A. Veale, P. Warner and D. J. Wolanin, "Heterocyclic Ketones", U.S. Patent 5,721,222 (1998).

P. D. Edwards, P. Warner and D.J. Wolanin, "Heterocyclic Amides", U.S. Patent 5,532,366 (1996).

P. R. Bernstein, A. Shaw, R. M. Thomas, D. J. Wolanin and P. Warner, "Heterocyclic Amides", U. S. Patent 5,521,179 (1996).

P. R. Bernstein, A. Shaw, R. M. Thomas, C. A. Veale, P. Warner and D. J. Wolanin, "Lactam Peptides Having HLE Inhibiting Activity", U. S. Patent 5,486,529 (1996).

D. J. Wolanin, "Pyrimidinyl Acetamides as Elastase Inhibitors", U. S. Patent 5,441,960 (1995).

C. A. Veale, P. Warner and D. J. Wolanin, "Amide Derivatives", U. S. Patent 5,405,852 (1995).

D. J. Wolanin, "N-(Fluoroalkyl)valylglycinamides", U. S. Patent 5,270,301 (1993).

P. R. Bernstein, A. Shaw, A. B. Shenvi, R. M. Thomas, P. Warner and D. J. Wolanin, " α -Aminoboronic Acid Peptides and Their Use as Elastase Inhibitors", Patent Publication Number WO 9321213 (1993).

P. R. Bernstein, P. D. Edwards, A. Shaw, R. M. Thomas, C. A. Veale, P. Warner and D. J. Wolanin, "Pyrimidinyl Acetamides as Elastase Inhibitors", U. S. Patent 5,254,558 (1993).

S. H. Bergeson, P. D. Edwards, J. A. Schwartz, A. Shaw, M. M. Stein, D. A. Trainor, R. A. Wildonger and D. J. Wolanin, "Peptide Derivatives", U. S. Patent 4,910,190 (1990).

A. Shaw and D. J. Wolanin, "Hydroxamic Acids", U. S. Patent 4,771,038 (1988).