

**Abdallah Cherif, Ph.D.**

Work Address: HCCS, 10141 Cash Road, Stafford, TX. 77477

E-mail : [abdel.cherif@hccs.edu](mailto:abdel.cherif@hccs.edu)

**EXPERIENCE:**

Extensive experience in teaching: General Chemistry, Organic Chemistry, Medicinal Chemistry, Radiochemistry, and the basic of analytical instruments including Chromatography (HPLC analytical and preparative), Mass Spectrometry, Infra Red, Ultra Violet, and the contemporary 2-Dimentional Nuclear Magnetic Resonance techniques (2D-NMR).

Supervising and training undergraduate and graduate students. Training laboratory personnel and different research groups, at the University of Texas and the University of Houston, in the use and the execution of various instrumental analysis.

Extensive experience in multi-step synthesis, and biological evaluation of potential antitumor drugs.

Writing research proposals, papers and reviews.

Computer knowledge ( Windows applications, WordPerfect, Paradox, Lotus123, MS Word, Excel, MS Access, Power Point, Quattro Pro , Visual Basic, C++, and java Programming...).

**EDUCATION:** Ph.D., Organic/ Medicinal Chemistry, May 1988. University of Reims, Department of Medicinal Chemistry, Reims, France.

**POSTGRADUATE:** Post-Doc, Department of Medicinal Chemistry, College of Pharmacy, University of Houston. Dr. Gary Martin, June 1988-May 1989.

**APPOINTMENTS:**

**August 2000-present:** Instructor, Dept. of Physical Sciences, Houston Community College. Department of Physical Sciences, Houston Community College South West.

**July 1993-June 2005:** Adjunct Assistant Professor, Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston.

**July 1994-August 1998:** Assistant Professor, Department of Diagnostic Radiology The University of Texas M.D. Anderson Cancer Center, Houston, Texas.

**July 1989-June 1994:** Research Associate/ Instructor, Department of Diagnostic Radiology and Department of Medical Oncology, The University of Texas, M.D.Anderson Cancer Center, Houston, Texas.

**June 1988-May 1989:** Project Investigator, Department of Medicinal Chemistry, College of Pharmacy, University of Houston, Houston, Texas.

**1986-1987:** Teaching Assistant, Department of Natural Products, College of Pharmacy, University of Reims, Reims, France.

**1979-1981:** Science Tutor, High Schools, Prieur de la Marne/ Les Chatillons, Reims, France.

**AWARDS:**           **1994**, the RSNA Research and Education Fund Award.  
                         **1993**, Patent Award, U.T. M.D. Anderson Cancer Center, Houston, Texas.  
                         **1984**, Graduate Scholar Award, BSN Emballage, Reims, France.  
                         **1980**, Summer Fellowship Award, Henkel France, Reims, France.

**MEMBERSHIPS:**   **1983-present**; American Chemical Society,  
                         **1990-present**; American Association for Cancer Research,  
                         **1992-present**; American Association of Pharmaceutical Scientists,  
                         **1994-present**; American Association for the Advancement of Science.

## **BIBLIOGRAPHY:**

### **a. Journal articles: (25 publications); List of 6 selected publications:**

- 1. A. Cherif**, G. Massiot, and L. Lemen-Olivier. Corialstonine, a novel quinoline alkaloid. *Heterocycles*, 26, 3055-3058, 1987.
- 2. A. Cherif**, G. Massiot, and L. Lemen-Olivier. Alkaloids of *Alstonia Coriacea*. *Phytochemistry*, 28, 667-670, 1989.
- 3. A. Cherif**, G.E. Martin, and G. Massiot. Configuration and total assignment of  $^1\text{H}$  and  $^{13}\text{C}$ -NMR spectra of the alkaloid Holstiine. *J. Nat. Prod.*, Vol. 53, N<sup>o</sup> 4, 793-802, 1990.
- 4. A. Cherif**, and G. Massiot. Isomerisation Cyclisante des alcaloides indoliques. *Bull. Soc. Chim. Fr.*, 127, 648-655, 1990.
- 5. A. Cherif**, and D. Farquhar. Doxorubicin Analogues Bearing Latent Alkylating Groups. *J. Med. Chem.*, 35, 3208-3214, 1992.
- 5. A. Cherif**, D.J. Yang, W. Tansey, E.E. Kim, and S. Wallace. Rapid Synthesis of 3- $^{18}\text{F}$ fluoro-1-(2'-nitro-1'-imidazolyl)-2- propanol ( $^{18}\text{F}$ -fluoro-misonidazole). *Pharm. Res.* 11(3), 466-469, 1994.
- 6. A. Cherif**, S. Wallace, D.J. Yang, R.A. Newman, V. L. Harrod, A. Nornoo, T. Inoue, C.G. Kim, L.R. Kuang, E.E. Kim, and A. Podoloff. Development of New Markers for Hypoxic Cells:  $^{131}\text{I}$ Iodomisonidazole and  $^{131}\text{I}$ Iodoerythronitroimidazole. *J. Drug Targeting*, 4: 31-39, 1996.

### **b. Book Chapters:**

- 1. D. J. Yang**, S. Wallace, L-R. Kuang, C. Li, **A. Cherif**, Z. Kan, P. McCuskey and K.C. Wright. Microencapsulation, tamoxifen analogues and in vivo microscopy for tumor targeting. In: P. Banzet, JF Holland, D Khayat, M Weil, eds. *Cancer Treatment An Update*. Springer-Verlag France, Paris, 817-819, 1994.
- 2. A.M. Emran**, J.L. Lim, D.D. Flynn, **A. Cherif**, and D.J. Yang. Fluorinated Tropinyl Esters For Application With PET. In: A.M. Emran ed. *Chemists' View of Imaging Center*, 485-496, Plenum Publishing Corporation, New York, NY, 1995.
- 3. D. J. Yang**, M.B. Gretzer, L-R. Kuang, **A. Cherif**, C. Li, M.F. Diaz, C-W. Liu, A. Emran, W. Tansey, and S. Wallace. Radiolabeled Tamoxifen Analogues for Imaging Breast Cancer with SPECT. In: A.M. Emran ed. *Chemists' View of Imaging Center*, 513-526, Plenum Publishing Corporation, New York, NY, 1995.

### **c. Abstracts: 39 abstracts accepted and published.**

#### **PATENTS PENDING and GRANTED:**

1. **A. Cherif** and D. Farquhar. Anthracycline Analogues Bearing Latent Alkylating Substituents. US patent N° 5,196,522. Approved May 1992.
2. **A. Cherif**, S. Wallace and D.J. Yang. (2'-Nitro-1'-Imidazolyl)-2,3-Isopropylidene-1-Tosylbutanol, A precursor to <sup>18</sup>F-Fluoroerythronitroimidazole, Pet Imaging Agent. US patent N° 5,728,843. Approved March 1998.
3. **A. Cherif**, S. Wallace and D.J. Yang. Rapid Synthesis and Use of [18F] Fluoromisonidazole and Analogs. US patent N° 5,886,190. Approved March 1999.
4. **A. Cherif** and D. Farquhar. Anthracycline Analogues Bearing Latent Alkylating Substituents. International patent, Serial N° PCT/US91/07687; Approved.
5. **A. Cherif**, S. Wallace, E.S. Delpassand, S. Quadri, and D.J. Yang. Development of <sup>111</sup>In-DTPA-TX conjugate as new imaging kit for ER (+) lesions. US patent, (UTMDACC: 439). Approved.

#### **GRANT and CONTRACT SUPPORT:**

- Evaluation of Tamoxifen Analogues for Breast Tumor Imaging and Therapy. P.I.: S. Wallace; Collaborator: **A. Cherif**. Supported by George & Cleo Cook Fund; \$500,000, 1991-1998.
- Tamoxifen Analogues for Breast Tumor Imaging and Therapy Applications; P.I.: D.J. Yang Collaborator: **A. Cherif**. Awarded from American Cancer Society; \$110,000, 1995-1997.
- Cyclic Analogs of Tuftsin: Synthesis and Structural Studies; P.I.: J.S. McMurray, Co-investigator: **A. Cherif**. Awarded from Institutional Research Support; \$8,925, 1995.
- Development of New 2-nitroimidazole Analogues for Tumor Hypoxia; P.I.: **A. Cherif**; Awarded from Philip Medical Systems, Radiological Soc. of N. America; \$20,000, 1995.

#### **SEMINAR INVITATIONS FROM OTHER INSTITUTIONS:**

**Title:** Structure Elucidation of Alkaloids Using 2D-NMR. January, 1989.  
*University of Houston, College of Pharmacy, Department of Medicinal Chemistry, Houston, Texas.* Invited by Dr. A. Weinheimer.

**Title:** Intensely Potent Anthracycline Analogues: Synthesis and Biological Studies, February 27, 1992. *University of Reims, College of Pharmacy, Department of Pharmacognosy, Reims, France.* Invited by Dr. Le-Men.

**Title:** PET and SPECT New Radioligands for Tumor Imaging and Therapy. October 24, 1994. *Cook Imaging Corporation, Bloomington, Indiana.*

**Title:** New Ligands for Cancer Imaging and Therapy. December 5, 1996.  
*Wonkwang University, Iksan, Korea.* Invited by Chang-Guhn Kim, M.D.

**Title:** New Ligands for Imaging Tumor Hypoxia. December 7, 1996. *National Cheng Kung University Hospital, Tainan, Taiwan.* Invited by Wei-Ren Yao, M.D.