

## Curriculum vitae - Alain KRIEF

Born in Tunis, Tunisia on December 13, 1942

Nationality: French, Tunisian

Married: Anne Vailhé

Children: 2

### **Employment**

1965 - 1968: Assistant, Faculté des Sciences de l'Université de Paris (France)  
1968-1972: Research Associate - CNRS (France)  
1970: NSF fellowship U.S.A. (to E.J. Corey)  
1972 -: Facultés Universitaires Notre-Dame de la Paix, Namur  
Full professor (1975)  
Director of the laboratory of Organic Chemistry (1972-1997)  
Directeur du Laboratoire de Chimie Organique de Synthèse (1997-)  
2004- Visiting Professor, HEJ Research Institute, University of Karachi, Pakistan

### **Studies**

1962-1970: University of Paris  
Ph. D. (Prof. J. Ficini) : "Cycloaddition of ynamine with  $\alpha,\beta$ -unsaturated carbonyl compounds" (Paris, 1970)  
1970-1971 : Postdoctoral position (Prof. E.J. Corey), Harvard University, U.S.A.  
Work on sterol biosynthesis  
1980 : Sabbatical year at Imperial Chemical Industry (I.C.I., Bracknell, UK),  
Work on herbicides at Plant Protection Division  
1993-1996 : Head of the Namur R & D Unit of the ACROS Company (Geel, Belgium)

### **Award**

1985 : Prize of "Académie des Sciences" (France, on work in biosynthesis)  
1999 : International Prize Wernaers for Research and Broadcasting of Knowledge (FNRS, Belgium)

### **Personalia**

- Member of the Organic and Inorganic division of the "National Fund for Scientific Research" (Belgium 1975-1990)
- President of the Organic Division of the "Société Royale de Chimie Belge" (1985-1986)
- Member of the Bureau of the Organic Division of the "Société Française de Chimie" (1991-1999)
- President of the "Société Royale de Chimie Belge" (1993-1995)
- Member of the Organic and Inorganic Division of the "Fonds National de la Recherche Scientifique (FNRS)" (Belgium 1995-2005)
- Member of the Fonds voor Wetenschappelijk Onderzoek - Vlaanderen Commission of organic and Supramolecular Chemistry (E3) (FWO)" (Belgium 1995-2005)

- **Member of the Editorial Board of Scientific Journals:**

- Sulfur Letters, *Harwood Academic Publishers* (1991-)
- Sulfur Reports, *Harwood Academic Publishers* (1991-)
- Synlett, *Georg Thieme Verlag Publisher* (Associate Editor, 1991-)
- Bulletin de la Société Chimique de France, *Société Chimique de France* (1992-1997)
- Perkin transaction 1, *Royal society of Chemistry* (1998-2003)
- Russian Journal of Organic Chemistry (2000-).
- Current Organic Synthesis, *Bentham Publishers* (2002-)
- Mini Review in Organic Chemistry, *Bentham Publishers* (Associate Editor, 2002-)
- The Open Physical Chemistry Journal, *Bentham Publishers* (2007-)
- The Open Engineering Journal *Bentham Publishers* (2007-)

- **Member of the Scientific Committee of the:**

- Belgian Organic Synthesis Symposium since 1986
- European Symposium on Organic Chemistry 1988-1998
- IUPAC Organic Synthesis held in Bangalore (India, December 1994)
- International Symposium on Carbanion Chemistry (ISOCC-IV) held in Gallipoli (Italy, June 1992)
- IUPAC Organic Synthesis held in Helsinki (Finland, July 1990)
- Taibah International Chemical Conference (1<sup>st</sup> TICC) (Saudi Arabia, March, 2009)

- **Chairman of the following International Meetings and Symposia:**

- First Belgian Organic Synthesis Symposium (350 participants, Namur, Belgium, 1986)
- Ficini Colloquium in Organic Synthesis (380 participants, Namur, Belgium, 1990)
- Seventh European Symposium on Organic Chemistry (600 participants, Namur, Belgium, 1991)
- Fifth Belgian Organic Synthesis Symposium (550 participants, Namur, Belgium, 1994)
- Noyori Forum-Merinos joint Meeting (130 participants, Houffalize, Belgium, 2001)
- Ninth Belgian Organic Synthesis Symposium (480 participants, Namur, Belgium, 2002)
- 40<sup>th</sup> Bürgenstock Conference (135 participants, Bürgenstock, Switzerland, 2005)
- Lilly European Distinguished Lectureship (150-250 participants, Namur, 2003, 2004, 2005)
- Learning Organic Synthesis Tremendously (LOST), (110 participants, Namur, 2007)

- **Expert for the following associations:**

- Audit CNRS (France, Organic Chemistry): University of Bordeaux, (2000); University of Grenoble, (Laboratoire L.E.D.S.S., 2002)
- European Community (Bruxelles, Chemistry, 1999-)
- Third World Academy of Sciences (TWAS) (Trieste, Italy, 1999-)
- Petroleum Fund of the American Chemical Society (2000-)
- National Core Group in Chemistry (Pakistan) (Audit 7 Universities, 10 chemistry, biochemistry, pharmacy, engineering departments, 2006)
- French National Research Agency (ANR), Paris, France (2006-)

- Institut Universitaire de France (IUF) (2007-)
- Agence d'Evaluation de la Recherche et de l'Enseignement Superieur Francais (AERES) :Audit Université de Metz (Five chemistry physic laboratories, Metz, France, 2008)
- **Member of the Committee of:**
  - The Paul Janssen Prize Creativity in Organic Synthesis 1998-2007
  - Exxon Chemical European Science and Engineering Award 1997 (as a member of the committee of the NFWO)
  - Several Prizes awarded by the Organic division of the Organic division of the Societé Française de Chimie (1991-1999)
- **President of the Jury of:**
  - The Paul Janssen Prize Creativity in Organic Synthesis (2002-2007)
- **Member of the COST D12 Workshop D12/0020/99**

"Enantio- and Diastereoselective Transformations Applied in EPC Syntheses of Natural Products"  
 Prof. Cozzi (U Milan, Italy), Palomo (U. San Sebastian, Spain), Colonna (U. Milano, Italy), Umani-Ronchi (U. Bologna, Italy) Kunz (U. Mainz, Germany), Yus (U. Alicante, Spain), Widhalm (U. Vienna, Austria), Weissensteine (U. Vienna, Austria) Mulzer Group (U. Vienna, Austria).

#### **Current research**

- Search for inorganic reagents for functional groups transformation
- Search for new reagents for C-C bond formation (organosulfur, organoselenium, organosilicium compounds)
- Study of the intimate mechanism of the sterol biosynthesis (bioreactivity of stereochemically modified 2,3-oxidosqualenes)
- Synthesis of small natural products (ipsenol, chrysanthemic acid)
- Use of monoclonal antibodies for functional group transformation
- Synthesis of antiviral drugs. Virucides and bactericides.
- Creation of Interactive Computerized Scientific Information System (Member of E-LeGI, IST, European Community).

#### **Visiting Professor**

University of Reims, *France* (1977, 2 months), University of Giessen, *Germany* (1979, 1 week), University of Bochum, *Germany* (1980, 1 week), Universities of Geneva, Fribourg, Lausanne, *Switzerland*, (1981, 1 week), Technion, Haifa, *Israel* (1983, 2 weeks), Université Libre de Bruxelles, Belgium (1984, 1 year), University of Hamburg, *Germany* (1989, 1 week), University of Reims, *France* (1990, 2 months), University of Strasbourg, *France* (1991, 1 month), Universities of Geneva, Neuchâtel, Fribourg, Lausanne, *Switzerland* (1991, 1 week), University of Stuttgart and Honeheim, *Germany* (1991, 1 week), Technion, Haifa, *Israel* (1995, 2 months), Various Universities in Japan, *Japan*, Japan Society for the Promotion of Science. (1996, 1 month), HEJ Research Institute for Chemical Sciences, Karachi, *Pakistan* (2004, 1 month; 2005, 2 weeks).

**Invited Lecturer at Conferences and Congresses** (80 since 1977)

**Invited Lecturer at Universities and Industries** (173 since 1975)

#### **Publications**

- 257 papers in international journals
- 18 short review articles

- 18 publications in books
- 12 patents.