Curriculum Vitae de Bernard MEUNIER

Born in 1947 at Poitiers (France). Married (Claudine CHESNY), two children (Benoît and Claire).

Current position:
- Emeritus Director of Research (“classe exceptionnelle”) since September 2012. Laboratoire de Chimie de Coordination du CNRS, 205 route de Narbonne, 31077 Toulouse cedex 4 (phone: +33 (0)5 61 33 31 84, bernard.meunier@lcc-toulouse.fr)
- Distinguished Professor at the Chemistry Department of the Guangdong University of Technology (GDTU) at Guangzhou (China) (September 2012 - August 2017).

Previous positions:
- President-CEO of PALUMED SA (February 2006-January 2011).
- President of the CNRS “Centre National de la Recherche Scientifique” (October 2004 – January 2006).
- Permanent position at the CNRS from January 1973 to January 2006 and again from February 2011, successively as “Attaché, Chargé, Maître, Directeur and Directeur classe exceptionnelle”.
- Associate-Professor at the Chemistry Department of “l’École Polytechnique” (1993 - 2006).
- Assistant-Professor at the University of Montpellier (1970 -1972).

Academic cursus.
- “Doctorat de Troisième Cycle” with Robert CORRIU at the University of Montpellier in November 1971.
- Founder and group leader of the group “Biomimetic Oxidations” at the “Laboratoire de Chimie de Coordination du CNRS” at Toulouse (1979 - 2005).

Research activity domains (mainly bioinorganic and medicinal chemistry).

Past:
- Catalytic oxidations (epoxidation and hydroxylation), catalytic oxidation of pollutants, chemistry of metalloporphyrins, modeling of heme-containing enzymes (cytochrome P450, peroxidases, catalase, chloroperoxidase), non-heme oxidation catalysts.
- Oxidative DNA cleavage (artificial endonucleases).
- Mechanism of action of ellipticine, bleomycin and isoniazid.
- Design and development of hybrid trioxane-containing molecules (trioxaquines®) as antimalarials.
- Design and development of trioxaquines as anti-schistosomiasis drugs.

Present:
- Design and development of new copper-specific chelating agents as potential therapeutic agents for Alzheimer’s disease).

Bibliometric data
388 articles, 33 patents and 411 conferences and lectures (supervisor of 39 PhD theses). On June 23rd 2017, 385 articles indexed in the WoS (All data bases) have been cited 18,687 times (average citations per item = 48.5). An article published on biomimetic oxidations in Chemical Reviews 1992 has been cited more than 1,843 times. A review article on cytochrome P450 mechanisms (Chemical Reviews 2004, cited 1,102 times) is ranked 18th on a total of 70,171 articles dedicated to that enzyme. The H index is 69 (Author Identifier = J-4879-2013).
Membership of Academies, Professional Societies and Boards, Awards, Editorial positions, Organization of scientific meetings and Consulting positions.

- Member of the French Academy of Sciences (1999).
- Foreign Member of the Polish Academy of Sciences (2005).
- Member of the European Academy of Sciences, Arts and Letters (2006).
- Vice-President of the French Academy of Sciences (2013-2014).
- Member of the French National Academy of Pharmacy (2013).
- President of the French Academy of Sciences (2015-2016).
- Member of Academia Europaea (2015).
- President of the CNRS (2004-2006).

- Member of the “Société Française de Chimie” and of the American Chemical Society (since 1985).
- Fellow of the Royal Society of Chemistry (since 2014).
- Member of the CNRS Committee on Ethics (2003-2006).
- Member of the Board of the Institut Pasteur (Paris) (2004-2006).
- Member of the Board of INSERM (2004-2006).
- Member of the Board of IRD (2004-2006).
- Member of the Board of ANDRA (2005-2006).
- Member of the Board of the "Agence de l'Innovation Industrielle (A2I) (2005-2007).
- Member of the Jury of the « Grand Prix de la Maison de la Chimie » (2007-2011).
- President of the Scientific Advisory Board of the "Pôle Balard", Montpellier (2008-2011).
- Member of the Strategic Committee for the Health Industries (2009-2012).
- President of the Balard Foundation (University of Montpellier) (2011-2012).
- Member of the Board of the French Chemical Society (2012-2015).
- Member of the Board of Diverchim (2013-2017).
- Member of the Board of « La Maison de la Chimie » (2006- ).
- President of the Board of the Foundation « InnaBioSanté » (2007- ).
- Member of the Scientific Board of the Foundation « Chimie des produits naturels et leurs applications » of the French Academy of Sciences (2012- ).
- Guest Professor at the Southern Medical University in Guangzhou (China) (2013-2016).
- Member of the National Advisory Security Committee on Biological Safety (CNCB) (2016- ).
- President of Scientific Advisory Committee of Novacap-France (2016- ).
- President of the Foundation "Godin de Lépinay" (Academy of sciences) (2017- ).

- Silver Medal of the CNRS (1991)
- Prize of the Coordination Chemistry Division of the French Chemical Society (1994)
- Prize Clavel-Lespieau of the French Academy of Sciences (1997)
- Berthelot Medal of the French Academy of Sciences (1997)
- Prize Descartes-Huygens of the Royal Netherlands Academy of Sciences (2001)
- Prize A. von Humboldt-Gay Lussac (2002)
- Knight in the Order of Legion of Honor (2006)
- Prize Le Bel of the French Chemical Society (2007)
- Officer in the Order of Legion of Honor (2015).

- Guest Editor of “Recent Developments in Biomimetic Oxidation Catalysis”, a special issue of the J. Mol. Cat., vol. 113, 1996.
- Member of the Editorial Board of Chemtracts - Inorganic Chemistry (1990-2002).
- Editor of “Biomimetic Oxidations Catalyzed by Transition Metals Complexes”, Imperial College Press (April 2000).
- Guest-Editor of the “Structure & Bonding” volume dedicated to ‘Metal-oxo and Metal-peroxo Species in Catalytic Oxidations’ (Vol. 97, May 2000).
- Vice-President of the Division of Coordination Chemistry of the French Chemical Society (1999).
- Member of the Section 18 of the CNRS National Committee (1996-2000).
- Member of the Committee of the Division of Inorganic Chemistry of IUPAC (1999-2003).
- Member of the Committee on Chemistry Education of IUPAC (2002-2003).
- Member of the first EUROBIC Organizing Committee (merging of Sambas and Simbic meetings), Newcastle, July 1992.
- Member of the Organizing Committee of the NATO Workshop “Convergent Aspects in Bioinorganic and Material Chemistry, Rhodes (Greece) June 1994.
- Past consultant activities (1985-2005)
  ARCO Chemicals (Newtown Square, USA), GENSET (Paris), PROCTER & GAMBLE (Brussel), SANDOZ Pharma (Basel), SOLVAY (Hannover), GLAXO-WELLCOME (Stevenage, UK), UNILEVER (Port-Sunlight, UK), EUKARION (Mass., USA), UNILEVER (Vlaardingen, Hollande), UCB (Belgium).

**Founder of the start-up PALUMED in December 2000.**

**PALUMED definitively closed down in June 2017 (lack of investments).**

*B.M has been Member of the Board since its creation.*

PALUMED has developed these different medicinal chemistry projects:

- **Malaria**: development of trioxaquines®, dual molecules actives on chloroquine-resistant strains molecules of *Plasmodium falciparum*. Co-development of these antimalarial agents has been signed with SANOFI-AVENTIS from 2002 to 2010.
- **Schistosomiasis** (bilharziose): development of specific trioxaquines (a PALUMED patent filed in 2007).
- **Bacterial infections**: design and development of new antibiotics: antibioquines®.
- **Neurodegenerative diseases** (Alzheimer): New specific chelating agents for copper ions (specific chelato-therapy strategy).

PALUMED has been awarded in 2005 and in 2007:
- **South-West Price for “l’Entreprise d’Avenir”** sponsored by “Ernst & Young and L’Entreprise” (Toulouse, September 2005).
- **Prize Bio&Techs, Région Midi-Pyrénées** (Toulouse, 2007).

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