



Curriculum Vitae of Anne-Marie CAMINADE

- Director of Research Exceptional Class CNRS (DRCE2)¹
- Deputy Director of the LCC (DUA, Laboratoire de Chimie de Coordination, c.a. 250 people)
- Head of the « Dendrimers and Heterochemistry » team (4 DR2 CNRS, 1 CRCN CNRS, 1 Prof and 1 MCF Univ. Toulouse, 1 IRHC CNRS, 2 AI CNRS, 1 DRCE Emeritus, and about 15 Post-Doc, PhD students, Masters and trainees)²
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- Web site: <https://www.lcc-toulouse.fr/dendrimeres-et-heterochimie-equipe-m/> (under reconstruction)
- Research ID: E-2819-2015; ORCID identifier: 0000-0001-8487-3578

Education and career

- 1st PhD thesis (Toulouse, 1984) and 1st Post-Doc. at the IFP (1984, Rueil-Malmaison Paris, France)
- 2nd PhD thesis (Toulouse, 1988) and 2nd Post-Doc (1988-1989, University of Saarbrücken, Germany)
- Researcher CNRS (CR2) in 1985, then CR1 in 1989, Director of Research CNRS (DR2) in 1997, DR1 in 2004, Director of Research Exceptional Class 1 in 2014 (LCC CNRS UPR 8241, Toulouse)
- Head of the “Dendrimers and Heterochemistry” team, (2006-)
- Deputy Director of the LCC CNRS UPR 8241 in Toulouse (2021-)

Scientific production

- Author and co-author of 508 publications in international scientific journals (545 on Web of Science).
- Editor of two books and co-author of 55 book chapters
- Co-inventor of 18 priority patents + 16 World extensions (WO)
- 186 invited conferences (122 in congresses, and 64 in academic or industrial laboratories)
- H-factor = 76 (76 publications cited at least 76 times, 18,051 citations) WOS all data bases (November, 2022)

Awards, rewards, distinctions

- ❖ Alexander von Humboldt Fellowship, 1988-1989
- ❖ Bronze medal of the CNRS, 1989
- ❖ Organic Chemistry award of the French Chemical Society (SCF), 2006
- ❖ Åsgard reward (Conference tour in Norway) 2007
- ❖ CNRS scientific excellence premium (2009-2012, 2013-2016)
- ❖ Chevalier de la Légion d'Honneur (2021, the highest civil French Honor)
- ❖ Achille Le Bel Prize (Grand Prize of the Chemical Society of France) (2021)
- ❖ André Collet Prize (Supramolecular Chemistry Prize of the Chemical Society of France) (2022)
- ❖ Elected Member of Academia Europaea (2022)
- ❖ Victor Grignard - Georg Wittig Lecture of the German Chemical Society GDCh (2022)
- ❖ Elected Member of the European Academy of Sciences (2022)

Scientific interests

All the fields of **phosphorus** chemistry, with emphasis on:

- low coordinences of phosphorus (1982-1988),
- interactions between metallic hydrides and phosphorus derivatives (1986-1991),
- phosphorus macrocycles, cryptands and multimacrocycles (1988-1997)

Everything related to **dendrimers** (hyperbranched and perfectly defined nanometric molecules) (1993-) and to the chemical approach of **nanosciences**, in particular:

- Synthesis and physico-chemical studies of dendrimers (example: fluorescence, self-assembling, etc.),
- Homogeneous catalysis (recycling dendrimer, “green chemistry”, “dendritic effect”), coordination chemistry, asymmetric catalysis, catalysis in water, organocatalysis, etc.
- Materials, nanometric modifications on the surface of materials (electrodes, nanolatexes, metallic surfaces, silica, alumina), elaboration of ultra-sensitive DNA Chips, chemical sensors; materials incorporating dendrimers (hydrogels, fibers, organic-inorganic materials, etc.), nano-objects made of dendrimer (nanotubes, microcapsules)
- Biologie/nanomedicine (dendrimers as anti-prion, anti-HIV, anti-cancer, antibacterial and anti-inflammatory agents, for immunology, medical imaging and genetic transfection, against Uveitis, Multiple Sclerosis, psoriasis, Rheumatoid Arthritis, tuberculosis, etc.)

Advisor or co-advisor of Post-Docs and Students

50 Post-Docs, 39 PhD students, 45 Masters, 82 trainees.

¹ There are six levels for researchers at the CNRS (Centre National de la Recherche Scientifique) DRCE2 is the highest level.

² MCF: Lecturer; CRCN Senior researcher; IR: Research Engineer (PhD); AI: Assistant Engineer.

Chair of International Conferences

- IDS:5 (5th International Dendrimer Symposium), **Toulouse**, France, 28 August – 1st September 2007, Chair with J.P. Majoral, (ca 340 attendees)
- CIAM Workshop (Catalysis in Aqueous Media), **Toulouse**, France, 29 November – 1st December 2007, Chair with R. Poli (ca 110 attendees).
- SUDOE CiNK (NK Cells for clinical uses), **Toulouse**, France, 18-19 June 2012, Chair (ca 30 attendees)
- ICONAN 2016 (nanobiotechnologies), **Paris**, France, 28-30 September 2016, Chair (ca 260 attendees)
- PBSi 2017 (Phosphorus, Boron, Silicon), **Paris**, France, 3-5 July 2017, Chair (ca 150 attendees)
- PEMED 2018 (Personalized and Precision Medicine), **Paris**, France, 11-13 April 2018, Chair (ca 150 attendees)
- PEMED 2020 (Personalized and Precision Medicine), **Munich**, Germany, 19-21 February 2020, Chair with A. Daly and M. Schwab (ca 120 attendees)

Editorial activities

- ❖ Advisory Editor of *Chemical Society Reviews* (2010 -) (IF₂₀₂₁ = 60.615)
- ❖ Advisory Editor of *Inorganic Chemistry Communications* (2013 -)
- ❖ Editor of *Molecules* (MDPI) (2019 -)
- ❖ Editor of the *Journal of Personalized Medicine* (2022 -)
- ❖ Editor of *Frontiers in Catalysis* (2022 -)
- Guest Editor of a special issue of *Inorganica Chimica Acta* "Metallo-dendrimers", 2014
- Guest Editor of a special issue of *Chemical Society Reviews* "Dendrimers and hyperbranched polymers", 2015
- Guest Editor of a special issue of *Coordination Chemistry Reviews* at the occasion of the "40th Anniversary of the Laboratoire de Chimie de Coordination", 2016.
- Guest Editor of a special issue of *Chemical Society Reviews* "Smart Inorganic Polymers", 2016
- Guest Editor of a special issue of *Molecules*, "Dendrimers in medicine", 2021, for the 80th birthday of J.P. Majoral
- Guest Editor of a special issue of *Molecules*, "Recent Advances in Metallo-Drugs" to be published in 2022-2023
- Guest Editor of a special issue of the *Journal of Personalized Medicine*, "Personalized and Precision Medicine", to be published in 2022-2023
- Guest Editor of a special issue of *Molecules*, "Women in Nanochemistry", to be published in 2023
- Guest Editor of a special issue of *Pharmaceutics* for the 85th birthday of Donald Tomalia, to be published in 2023

Selected recent invitations in International Conferences

- Washington-Gaithersburg (**USA**), IDS7, 26 June – 2 July 2011
- Pune (**India**), 7th IFCOS, 7-9 December 2011
- Sao Paulo (**Brazil**), Dendrimer Symposium 1-3 October 2012 (Plenary conference)
- Rabat (**Morocco**), 3^{ème} colloque Chimie, 15-18 October 2012 (Plenary and introductory conference)
- Madrid (**Spain**), IDS8, 23-27 June 2013 (Plenary conference)
- Sofia (**Bulgaria**), 11th EWPC and 2nd COST SIPs, 24-28 March 2014
- Lugano (**Switzerland**), Biodendrimers 2014, 18-20 June 2014 (Plenary conference)
- Leipzig (**Germany**), 13th Ferrocene Colloquium, 22-24 February 2015 (Plenary conference)
- Huatulco (**Mexico**), Polymat-2015, 18-22 October 2015 (Plenary conference)
- San Diego Carlsbad, CA, (**USA**), Zing Conference, 12-15 February 2016 (Plenary conference)
- Kazan (**Russia**), ICPC-21, 5-10 June 2016 (Plenary conference)
- Copenhagen (**Denmark**) Biodendrimers 2016, 2-5 August 2016 (Plenary conference)
- Paris (**France**), ICONAN 2016, 28-30 September 2016 (Plenary conference)
- Kaohsiung (**Taiwan**) Symposium of Dendrimer Chemistry, 11-13 July 2017
- Weihai (**China**), IDS10, 5-9 August 2017 (Plenary conference)
- Moscow (**Russia**) Modern trends in dendrimer chemistry, 1-4 October 2017 (Plenary conference)
- Urbino (**Italy**) Biodendrimers 2018, 4-7 June 2018 (Plenary conference)
- Paris (**France**) PEMED 2018 (Personalized Medicine), 25-27 June 2018 (Plenary conference)
- Barcelona (**Spain**) PBSi 2018, 10-12 December 2018 (Plenary conference)
- Funchal (**Madeira, Portugal**) IDS11, 14-18 July 2019 (Plenary conference)
- Hammamet (**Tunisia**) 3^{èmes} JCC (Journées de Chimie de Coordination), 26-29 September 2019 (Plenary conference)
- Munich (**Germany**) PEMED (Personalized Medicine) 2020, 19-21 February 2020 (Plenary conference)
- Hammamet (**Tunisia**) 4th JCC, 29 September – 2 October 2022 (Plenary conference)

Coordination of Academic contracts (and theme)

- ACI nanosciences DENDRISO (adaptative materials, 4 French Teams) 2004-2007
- PAI PICASSO n°09690ZM (dendrimers and macrocycles for catalysis, France – Spain) 2005-2006
- ANR PCV 2006 BIODENDRIDOT (dendritic fluorophores for biomedical imaging, 4 French Teams) 2007-2010
- ANR 2009 International DENDSWITCH (Catalysis with switchable dendrimers, France – Germany) 2010-2013
- FRM (Fondation pour la Recherche Médicale) (Searching receptors of a dendrimer, 2 French Teams) 2012-2015
- CEFIPRA (Dendrimers against tuberculosis and bacteria, France – India) 2015-2019
- PRC 2019 (Dendrimers against triple negative breast cancer, France – China) 2019-2021
- ANR 2017 PRC CE9 SLOW2 (Stereo Laser Writing On Water, 3 French teams) 2017-2022
- PRHC TOUBKAL (Graphene oxide functionalized with dendrons, France – Morocco) 2019-2022
- MSCA IF EUREKA (Multifunctional dendrimers as vectors of therapeutic siRNA, EU) 2020-2022.
- MSCA-ITN-EJD 860322 CCIMC (Coordination Chemistry Inspires Molecular Catalysis, A.M. Caminade Deputy coordinator, R. Poli coordinator, EU) 2020-2024