Dr Vincent CORCÉ, *assistant professor*.

ORCID: 0000-0003-2481-7608

Short description:

Vincent Corcé has an education in biochemistry and medicinal chemistry. He obtained his PhD from the Université de Nantes in 2012 under the guidance of Prof. David Deniaud and Dr François Gaboriau developing new iron chelator for anti-cancer strategy. After that, he moved to a postdoctoral research fellowship with Prof. Eoin M. Scanlan at the Trinity College of Dublin. He worked on thiyl radical cyclization to gain access to thiosugars and thioglycals. In 2014, he joined the research group of Prof. Louis Fensterbank at the Université Pierre et Marie Curie (now Sorbonne Université) and worked on silicates photooxidation and explored their reactivity in radical chemistry and metallaphotoredox cross-coupling reaction. In September 2017, he has been appointed as an associate professor at the Institut Parisien de Chimie Moléculaire (IPCM). His research activity focuses on the synthesis and vectorization of new carbon monoxide releasing molecules (CORMs) for therapeutic purposes and the use of CORMs in carbonylation reactions. Since January 2025, he joined the research group of Prof. Louis Fensterbank at Collège de France. His research focuses on the development of new Lewis acids for the carbon-fluorine bond activation.

Education:

- Since september 2017: assistant professor at Sorbonne Université (ex UPMC).
- September 2016: ATER at UPMC. photoredox catalysis by visible light (Pr. Louis Fensterbank, Dr. Cyril Ollivier).
- May 2015 – April 2016: Post-doctoral position at IPCM, reactivity of low valent cobalt complexes (Dr. Marc Petit, Dr. Alejendro Pérez-Luna and Pr. Franck Ferreira).
- 2014 – April 2015: Post-doctoral position at IPCM, photoredox catalysis by visible light (Pr. Louis Fensterbank, Dr. Cyril Ollivier and Pr. Jean-Philippe Goddard).
- 2013: Post-doctoral position at Trinity College of Dublin, glycochemistry and radical chemistry (Pr. Eoin M. Scanlan).
- 2009 – 2012: PhD in organic and medicinal chemistry, synthesis and biological evaluations of new anticancer agents (Pr. David Deniaud and Dr. François Gaboriau).

List of publications:

35. R. Boumali, E. David, N. Chaaya, M. Lucas, S. Aït Amiri, V. Lefort, A. Nina-Diogo, M. Salmain, I. Petropoulos, V. Corcé, C. El Amri*, C. Botuha*, *ChemMedChem*, **2025**, accepté (DOI : 10.1002/cmdc.202500187).

34. M. Ballarin-Marion, J. C. Herrera-Luna, V. Corcé, H. Dossmann, C. Ollivier* V. Mouriès-Mansuy* and L. Fensterbank*, *J. Org. Chem.*, **2024**, *89*, 16242.

33. M. Annereau, M. Salmain and **V. Corcé***, *Chem. Commun.*, **2024**, *60*, 3934.

32. A. Beghennou, O. Rondot, **V. Corcé*** and C. Botuha*, *Molecules*, **2024**, *29*, 687.

31. M.-A. Wiethoff, M. Abdellaoui, T. Deis, **V. Corcé**, G. Lemière*, C. Ollivier* and L. Fensterbank*, *Synlett*, **2023**, *34*, 1467.

30. M. Annereau, F. Martial, J. Forté, G. Gontard, S. Blanchard, H. Dossmann, M. Salmain and **V. Corcé***, *Appl. Organomet. Chem.*, **2023**, *37*, e7171.

29. A. Beghennou, G. Gontard, H. Dossmann, K. Passador, S. Thorimbert, **V. Corcé*** and C. Botuha*, *Org. Biomol. Chem.,* **2023**, *21*, 2976 – 2982.

28. F. Zhao, M. Abdellaoui, W. Hagui, M. Ballarin Marion, J. Berthet, **V. Corcé**, S. Delbaere, H. Dossmann, A. Espagne, J. Forté, L. Jullien, T. Le Saux, V. Mouriès-Mansuy, C. Ollivier, L. Fensterbank, *Nat. Commun.*, **2022**, *13*, 2295.

27. **V. Corcé***, C. Ollivier*, L. Fensterbank*, *Chem. Soc. Rev.,* **2022**, *51*, 1470 – 1510.

26. E. Levernier, K. Jaouadia, H.-R. Zhang, **V. Corcé**, A. Bernard, G. Gontard, C. Troufflard, L. Grimaud, E. Derat, C. Ollivier, L. Fensterbank, *Chem, Eur. J.*, **2021**, *27*, 8782 – 8790.

25. J. P. Rada, J. Forte, G. Gontard, C.-M. Bachelet, N. A. Rey*, M. Salmain, **V. Corcé***, *J. Biol. Inorg. Chem.*, **2021**, *26*, 675 – 688.

24. A. Beghennou, K. Passador, A. Passador, **V. Corcé**, S. Thorimbert, C. Botuha, *Eur. J. Org. Chem.*, **2020**, 5880 – 5889.

23. J. P. Rada, J. Forte, G. Gontard, **V. Corcé***, M. Salmain, N. A. Rey*, *ChemBioChem*, **2020**, *21*, 2474 – 2486.

22.C. Lévêque, E. Levernier, **V. Corcé**, L. Fensterbank, M. Malacria and C. Ollivier, *Advanced Green Chemistry*, **2020**, 49 – 121.

21. Z. Xia, **V. Corcé**, F. Zhao, C. Przybylski, A. Espagne, L. Jullien, T. Le Saux, Y. Gimbert, H. Dossmann, V. Mouriès-Mansuy, C. Ollivier, L. Fensterbank, *Nat. Chem.*, **2019**, *11*, 797.

20. N. Illy, **V. Corcé**, J. Zimbron, V. Molinie, M. Labourel, G. Tresset, J. Degrouard, M. Salmain, P. Guegan, *Macromol. Chem. Phys.*, **2019**, *220*, 1900210.

19. E. Levernier, **V. Corcé**, L.-M. Rakotoarison, A. Smith, M. Zhang, S. Ognier, M. Tatoulian, C. Ollivier, L. Fensterbank, *Org. Chem. Front.*, **2019**, *6*, 1378 – 1382.

18. A. Cartier, E. Levernier, **V. Corcé**, T. Fukuyama, A.-L. Dhimane, C. Ollivier, I. Ryu, L. Fensterbank, *Angew. Chem., Int. Ed.*, **2019**, *58*, 1789 – 1793.

17. **Corcé V.**, Lévêque C., Ollivier C., Fensterbank L., *Science of Synthesis: photocatalysis in Organic Synthesis*. *15 Silicates in Photocatalysis*. Ed: B. Koenig, **2019**.

16. Lévêque C., **Corcé V.**, Chenneberg L., Ollivier C., Fensterbank L., Photoredox/Nickel Dual Catalysis for the Csp^3-Csp^3 Cross-Coupling of Alkylsilicates with Alkyl Halides, *Eur. J. Org. Chem.*, **2017**,2118 – 2121.

15. Fallon B., **Corcé V.**, Amatore M., Aubert C., Chemla F., Ferreira F., Pérez-Luna A., Petit M., *New J. Chem.*, **2016**, *40*, 9912.

14. Lévêque C., Chenneberg L., **Corcé V.**, Ollivier C., Fensterbank L., *Chem. Commun.*, **2016**, *52*, 9877.

13. Lévêque C., Chenneberg L., **Corcé V.**, Goddard J.-P., Ollivier C., Fensterbank L., *Org. Chem. Front*, **2016**, *3*, 462.

12. Chenneberg L., Lévêque C., **Corcé V.**, Baralle A., Goddard J.-P., Ollivier C., Fensterbank L., *Synlett*, **2016**, 27, 731 – 735.

11. **Corcé V**., Gouin G. S., Renaud S., Gaboriau F., Deniaud D., *Bioorg. Med. Chem. Lett.*, **2016**, *26*, 251 – 256.

10. **Corcé V.**, Gaboriau F., Deniaud D., *l'Actualité Chimique*, **2016**, 403.

9. **Corcé V.**, Chamoreau L.-M., Derat E., Goddard J.-P., Ollivier C., Fensterbank L., *Angew. Chem. Int. Ed.*, **2015**, *54*, 11414 – 11418.

8. Renaud S., **Corcé V**., Cannie I., Ropert M., Lepage S., Loréal O., Deniaud D., Gaboriau F., *Biochem. Pharmacol.*, **2015**, *96*, 179 – 189.

7. **Corcé V.**, McSweeney L., Malone A., Scanlan E. M., *Chem. Commun.*, **2015**, 15, 8672 – 8674.

6. Lenormand H., **Corcé V**., Sorin G., Chhun C., Chamoreau L. M., Krim L., Zins E. L., Goddard J. P., Fensterbank L., *J. Org. Chem.*, **2015**, *80*, 3280 – 3288.

5. Scanlan E. M., **Corcé V.**, Malone A., *Molecules*, **2014**, *19*, 19137 – 19151.

4. **Corcé V**, Renaud S, Cannie I, Julienne K, Gouin G. S, Loréal O, Gaboriau F and Deniaud D, *Bioconjugate Chem*, **2014**, *25*, 320 – 334.

3. Gaboriau F., Deniaud D., **Corcé V**., Julienne K., Renault E, **PCT,** Int. Appl., WO 2013092556, june **2013** "Preparation of polyaminoquinoline metal chelators for vectorization of antiproliferative agents".

2. **Corcé V**, Morin E, Guihéneuf S, Renault E, Renaud S, Cannie I, Tripier R, Lima L. M. P., Julienne K, Gouin G. S., Loréal O, Deniaud D and Gaboriau F, *Bioconjugate Chem.,***2012**, *23*, 1952 – 1968.

1. Gaboriau F., Deniaud D., **Corcé V**., Julienne K., Renault E, **Patent** R20194FR/1162108, december **2011** "Composés chélateurs de métal présentant au moins une chaîne polyaminée".