Second coordination sphere effects in [FeFe]-Hydrogenase mimics
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Acknowledgments
After about four years, another chapter of my life is now coming to an end. However, this cannot be done without first spending few words of appreciation for those who contributed either directly or indirectly to my work and thesis.

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Simon, since the very first moment you stepped into our office (and lab) you have been talking about sardines... Lots of bla bla bla but nothing happened yet. So disappointing! I cannot move on to my next chapter without having a taste of this delicious dish of yours. Aside from this, thanks for sharing all the knowledge you have accumulated over the years and thanks a lot for all your valuable TIPS (both the one from Fluorochem and your actual synthetic tips and support during demanding experiments).

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Tessel, E1.41 is known for being the smelliest lab of the entire UVA, nevertheless only few know that you actually hold the record for the smelliest compound ever made! I always enjoyed helping you out whenever I could but that day... not so much! Besides this, I remember as it was yesterday (maybe because it actually was yesterday) when I asked you to be my parynymph and you happily and gladly accepted the task. The smile on your face was really flattering. Also, thanks for translating my summary; I feel I owe you a full Sunday of fun at some point!

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Infine Alessia. Credo una o due frasi scritte qui non siano sufficienti per descrivere tutta la gratitudine nei tuoi confronti. Sono molto fortunato ad averti nella mia vita. Grazie per aiutarmi, sostenerti, stimolarmi a fare meglio, sopportarmi, per essermi sempre vicina e per tutto l’amore che riesci a darmi in ogni singolo momento. Non vedo l’ora di organizzare il nostro futuro e finalmente iniziare il nostro percorso insieme. Ti amo.

Amsterdam, 28 April 2017

Riccardo
About the author
Riccardo was born on the 18\textsuperscript{th} of January 1987 in Como, Italy. Since the high school formation, he has always been interested in food chemistry, cooking science and fishkeeping. Such interests brought him to the chemistry field. After a high school training with a chemist specialization, Riccardo started his academic education at the University of Milano Bicocca at the chemistry department. During the bachelor he participated in the "Erasmus" exchange program and completed a six-month internship at the Royal Institute of Technology (KTH) in Stockholm, Sweden. Under the supervision of Prof. Lars Kloó he investigated the preparation of homo-poly-cationic naked clusters of group 15 elements in unconventional reaction media. During the master period, Riccardo obtained a Cariplo scholarship to perform a ten-month internship at the University of Illinois Urbana-Champaign (UIUC) under the daily supervision of Prof. Thomas B. Rauchfuss. Throughout this period he maturated a strong interest in renewable energies, in particular aimed at transferring the knowledge he gained regarding hydrogenase enzymes to sustainable hydrogen producing devices. In 2012 he graduated from the University of Milano Bicocca under the supervision of Prof. Luca De Gioia and Prof. Thomas B. Rauchfuss, with a thesis on synthesis and characterization of bio-inspired models of the [Fe-Fe]-hydrogenase active site. In the same year, he joined the homogeneous catalysis group (HomKat) lead by Prof. Joost N.H. Reek, at the University of Amsterdam (UVA). His four-year PhD project focused on understanding second coordination sphere effects in synthetic mimics of the [Fe-Fe]-hydrogenase active site. After his PhD, Riccardo will continue to explore his leading interests that have been accompanying him throughout his scientific formation.
List of publications

   “New Tetracobalt Cluster Compounds for Electrocatalytic Proton Reduction: Syntheses, Structures, and Reactivity”

   “Contrasting Protonation Behavior of Diphosphido vs Dithiolato Diiron(I) Carbonyl Complexes”

   “Terminal vs. Bridging Hydrides of Diiron Dithiolates: Protonation of Fe₂(dithiolate)(CO)₂(PMe₃)₄”

   “Reaction of Aryl Diazonium Salts and Diiron(I) Dithiolato Carbonyls: Evidence for Radical Intermediates”

   “Dichloromethane as solvent for the synthesis of polycationic clusters at room temperature; a link to standard organometallic chemistry”
"We must not forget that when radium was discovered no one knew that it would prove useful in hospitals.

The work was one of pure science.

And this is a proof that scientific work must not be considered from the point of view of the direct usefulness of it. It must be done for itself, for the beauty of science, and then there is always the chance that a scientific discovery may become, like the radium, a benefit for humanity.

Marie Curie"