



Bioorganometallic Chemistry: Applications in Drug Discovery, Biocatalysis, and Imaging

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An up-to-date reference reflecting the significant advances and important breakthroughs made in this emerging discipline over the last decade. As such, the book provides an overview of the latest developments and future trends in the field, focusing on such applications as the development of potentially active organometallic drugs against incurable diseases, as well as in such areas as catalysis, energy, analytical chemistry, and imaging. The renowned editor, who established the term "bioorganometallics", and his international team of experts have put together a valuable resource for researchers in organometallic, inorganic, medicinal, and biochemistry.

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Editorial Review

Review

“Overall, this is an excellent book for researchers (young and old in the field) who wish to pursue research at the forefront of bioorganometallic chemistry and who wish to assist in solving the many challenges still being faced and to contribute to the development of drug discovery, biocatalysis and cellular imaging.” (*Applied Organometallic Chemistry*, 20 August 2015)

From the Back Cover

First defined in 1985, the field of bioorganometallic chemistry studies the role of metal complexes in natural biological processes as well as the practicability of these results for the development of novel drugs, biosensors, radiopharmaceuticals, and artificial enzymes. This important field has continuously expanded over the past 25 years, and the first bioorganometallics to be successfully applied in life sciences were technetium complexes as nuclear medicine imaging agents. For cancer chemotherapy, they can advantageously complement coordination complexes of platinum.

This up-to-date reference reflects the significant advances and key breakthroughs made over the last decade. The result is an overview of recent developments and future trends in the field, focusing on such applications as potentially active organometallic drugs for fighting currently incurable diseases, as well as in such areas as catalysis, energy, analytical chemistry, and imaging.

Here, the renowned editor, who is responsible for coining the term "bioorganometallics", and his international team of experts have put together a valuable resource for researchers in organometallic, inorganic, medicinal, and biochemistry.

About the Author

Gérard Jaouen obtained his PhD degree in organic chemistry at the University of Rennes, France, in 1969. From 1973 to 1974 he did postdoctoral studies at the University of Cambridge, UK, working with the late Professor (Lord) Jack Lewis. He became a member of the CNRS in 1970, was appointed Directeur de Recherche in 1976 and became Professor at the École Nationale Supérieure de Chimie in Paris in 1982, where in 1984 he set up a CNRS associated research unit. He is now appointed as a "classe exceptionnelle" professor. He is the author of more than 400 papers and holds 14 patents. His achievements in bioorganometallic chemistry have been recognized by several awards. He was awarded "Chevalier dans l'ordre de la Légion d'Honneur" (Knight of the National Order of the Legion of Honour, 2006) and elected as a fellow of the European Academy of Sciences and a member of the Academia Europae in 2012.

Michèle Salmain received her PhD degree in organic chemistry from the Université Pierre et Marie Curie, Paris, France in 1990. She has been appointed as a researcher by the Centre National de la Recherche Scientifique (CNRS) since 1992 and currently holds position of Directeur de Recherche. Since the beginning of her academic career, her line of research has lied in the field of bioorganometallic chemistry. Her current interests are focused on the design of immunosensors for analytical applications and artificial metalloenzymes for enantioselective catalysis application

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